दक्षिण मध्य रेलवे South Central Railway
वरि.मं.वि.इंजी/अनु /गुंतकल का कार्यालय
Office of the Sr.Divisional Electrical Engineer Maintenance
गुंतकल मंडल Guntakal Division

संख्या No. जीG/ईE.150/III/PL,TL&AC दिनांक Dt: 16.06.2023

Sr.DPO/GTL

Sub: Model Question bank for the category of Technician-III (GS) Electrical (M) branch – reg.

** * **

In connection with above, the model question bank for the examination for the post of Technician-III (TL) Electrical General service has been attached for further uploading in the website of Guntakal website.

Encl.: Question Bank as above

N GANGA RAJU Digitally signed by N GANGA RAJU
Date: 2023.06.21 11:51:31 +05'30'

वरि.मं.वि.इंजी/अनु/गुंतकल
Sr.DEE/M/Guntakal

OBJECTIVE QUESTION BANK

for

TRAIN LIGHTING

of

Helper to Tech.Gr.-III

SYLLABUS

1. GENERAL ELECTRICAL ENGINEERING

1. For the protection of single-phase 1.5 kW motor, a MCB of rating should be provided [b]
   (a)10 A **(b) 16 A** (c) 32 A (d) 63 A
2. The low power factor results in [a]
   (a) Increased losses (b) Decreased losses
   (c) No effect on losses (d) Better generating efficiency
3. Low power factor [b]
   (a) Aids the voltage regulation (b) **Increase the voltage regulation**
   (c)Decrease the voltage regulation (d)None of the above
4. The power factor of the AC supply can be improved by using [c]
   (a) Synchronous generator (b) Universal motor
   (c) Synchronous condenser (d) SCR
5. A distribution line of 440 V is classified as [b]
   (a) LV **(b) MV** (c) HV (d) EHV
6. Which of the following is not used as a overhead conductor [c]
   (a) ACSR (b) Weasel **(c)PILCA** (d) Zebra
7. Which of the following reduces the power factor [d]
   (a) Motor on no load (b) Tube lights
   (c) Fans **(d) All of the above**
8. Under high voltage test cable shall withstand an AC voltage of [b]
   (a) 1.5 kV **(b) 3 kV** (c) 5.2 kV (d) 7.2 kV
9. Under high voltage test cable shall withstand a DC voltage of [d]
   (a) 1.5 kV (b) 3 kV (c) 5.2 kV **(d) 7.2 kV**
10. Under water immersion test cable is immersed in a water bath at [c]
    (a) 40° C (b) 50° C **(c) 60° C** (d) 70° C
11. For water immersion test, cable is immersed in hot water at specified temperature, after 24 hrs the voltage applied between conductor and water for five minutes is [d]
    (a) 3 kV (b) 4 kV (c) 5 kV **(d) 6 kV**
12. Unit of energy is [b]
    (a) Kilo volt hours **(b) Kilo watt hours** (c) Kilo watt (d)None of the above
13. As per Ohm's law [b]
    (a) V = IR b) V = I/R c) R = V X I (d)None of the above
14. Unit of resistance is [c]
    (a) Ampere b) Volts **c) Ohm** d) none of the above

15. In three phase 415 volts 50 Hz supply, the phase to phase voltage is [b]

(a)220 Volts **b) 415 volts** c) 440 volts d) none of the above

16. In three phase 415 volts 50 Hz supply, the phase to neutral voltage is [b]

(a)220 volts **(b) 230 volts** (c) 440 volts d) none of the above

17. In 4 sq. mm PVC wire, 4 sq. mm stand for [c]

(a)Thickness of wire (b) Length of wire

(c)**The area of thickness of wire** **(**d) none of the above

18. The instrument to measure the light is called [b]

(a) Tong tester (**b) Lux meter** (c) Micro meter d)none of the above

19. 10 hours use of 500 watt lamp will consume the energy [c]

(a) 10 units (b) 20 units (**c) 5 units** d)10 units

20. No. of poles in MCB/TPN is [b]

(a) 2 poles (**b) 4 poles** (c) 3 poles d) 1 pole

21. A.C. is converted into D.C. by [d]

(a) Dynamo (b) Motor. (c) Transformer **d) Rectifier**

22. A kilowatt-hour is a unit of [a]

(a) Energy (b)Electrical potential (c) Power (d)Electric current

23. An electric lamp is marked 100 watt. It is working on 200 Volts. [a]
The current through the lamp is given as

(a)0.5 Amp. (b) 0.2 Amp. (c) 5.0 Amp. (d)1.0 Amp.

25. Before carrying out O/H maintenance following is due [d]
(a)Transformer is switched off

(b)DG set is switched off

(c)HT panel is switched off

(d)Respective O/H feeder is switched off or earthed

26. In house wiring the red wire indicates the [a]

a) **Phase** (b) Neutral (c) Earth wire (d) Dead wire.

27. In house wiring the black wire indicates the [b]

a) Phase **(b) Neutral** (c) Earth wire (d) Dead wire

28. In house wiring the green wire indicates the [c]

a) Phase (b) Neutral (**c) Earth wire** (d) Dead wire.

29. In 4 wire electric circuit, the black conductor is used for [b]

a) Phase **(b) Neutral** **(**c) Earth wire (d) Armour

30. In cabling system the earth is connected with conductor having colour [d]

a) Red (b) blue (c) yellow **(d) Armour**

31. Unit of current is [b]

a) Watt **(b) Ampere** (c) Volt (d) ohm

32. Heater element is made up of [b]

a) Tin **(b) Nichrome** (c) Silver (d) Any above

33. Filament of incandescent lamp is made of [c]

a) Tin (b) Nichrome **(c) Tungsten** (d) Silver

34. An insulator should have [a]

a) **High resistance** (b) High conductance

(c) High conductivity (d) All of the above

35. Which of the following is used to make electric connections [d]

a) Solder (b) PG clamp

(c) Thimbles **(d) All above**

36. Instrument used for measuring the speed of rotating machines/ appliances is [b]

a) Lux meter **(b) Tachometer** (c) Micrometer (d) None above

37. Instrument used for measuring the thickness of wire/strip is [c]

a) Lux meter (b) Tachometer **(c) Micrometer** (d) None above

38. Instrument used for measuring the voltage across a circuit is [b]

a) Ammeter **(b) voltmeter** (c) Thermometer (d) None above

39. Instrument used for measuring the current is [a]

a) **Ammeter** (b) voltmeter (c) Thermometer (d) None above

40. Instrument used for measuring the temperature is [c]

a) Ammeter (b) voltmeter **(c) Thermometer** (d) None above

41. Illumination level is measured in terms of [a]

a) **Lux** (b) Volt (c) Ampere (d) Ohm

42. Insulating resistance is measured by using [b]

a) Multimeter **(b) Insulation Megger** (c) Voltmeter (d) Hydrometer

43. Which of the following is used for rectification of AC supply [a]

a) **Diodes** (b) Transistors (c) Capacitor (d) Resistors

44. Which preparation should be done starting a new wiring [a]

a) **Prepare a wiring diagram** (b)Prepare for shock treatment

(c) Both a & b (d) None of the above

45. In wiring circuit the fuse will be placed on [a]

(a) Phase (b) Neutral (c) Earth (d) Any of the above

46. Which of the following tests should be done before connecting a wiring to the main line [a]

(a) IR test (b) Continuity test (c) Polarity test (d) Any above

47. Which of the following is a common wiring fault [d]

(a) Short circuit (b) Open circuit (c) Fuse blown **(d) All above**

48. Wattage rating range of electric kettle is [b]

(a) 50-500 W **(b) 350-1000 W** (c) 1000-1500 W (d) 1200-1600 W

49. Device used for auto off an electric iron is [a]

(a) Thermostat switch (b) Overload relay

(c) Time delay switch (d) Any of the above

50. Can you repair an immersion rod [a]

(a) No (b) Yes (c) It depend on condition (d) None above.

51. A wire gauge is used to measure diameter of [a]

(a) Wire (b) cable (c) OH conductor (d) Any above

52. To improve the power factor, capacitors are connected in the circuit as [a]

(a) Parallel path (b) Series path (c) Any of a & b (d) None of the above

53. To switch ON or switch OFF the supply in accordance with day light, following is used [a]

(a) Light dependent resistor (b) Light emitting diode

(c) Any of a & b (d) None of the above

54 In order to draw more current from the electric source [a]

(a) **Resistors are connected in parallel** (b) Resistors are connected in series

(c) Resistors are connected in series and parallel (d) None of the above.

55 If a 60 W and 100 W lamps in series and are connected to a source of supply, which lamp will give more light [b]

(a) 100 W **(b) 60 W** (c) Both will give same light (d) None of the bulb will glow.

56 Power is defined as [b]

(a) Capacity of doing work **(b) Rate of doing work**

(c) Product of force and distance (d) Energy dissipated by load.

57 Unit of electric Energy is [c]

(a) Kilowatt (b) watt

(c) Kilowatt hour (d) watt hour

58 The internal resistance of battery is increased by [a]

(a) Increase in no. of cells

(b) Decrease in no. of cells

(c) None of the above

(d) Both a and b

59 A generators converts [c]

(a) Mechanical energy into light

(b) Electrical energy to mechanical energy

(c) Mechanical energy to electrical energy

(d) None of the above

60 Power factor of AC circuit is equal to [c]

(a) Tan of phase angle (b) Sine of phase angle

(c) Cosine of phase angle (d) None of the above

61 Resistance of open circuit is equal to [b]

(a) Zero **(b) Infinity**

(c) Less than 1 ohm (d) None above

62 Laminated core is used to reduce [b]
(a) Hysteresis loss **(b) Eddy current loss**
(c) Copper loss (d) iron loss

63 Which of the following is not a non-conventional energy source [d]
(a) Solar (b) Bio gas
(c) Wind **(d) Electricity**

64 Solar energy is used for [d]
(a) Lighting (b) Cooking
(c) Battery charging **(d) All above**

65 Solar and wind hybrid system is [a]
(a) **Becoming popular** (b) Not possible
(c) Conventional energy source (d) None of the above

66 Bio gas depends on [b]
(a) Electrical energy **(b) Waste products**
(c) Both a and b (d) None of the above

67 Which of the following is not a constituent of a solar lighting system [d]
(a) Photo voltaic cell (b) Back up batteries
(c) Charger **(d) Earth wire.**

68 Which of the following is not a type of fuse [c]
(a) HRC (b) Rewirable
(c) Ceramic (d) None above.

69 Which of the following is not a type of generating station? [d]
(a) Thermal (b) Nuclear (c) Hydro **(d) Atmospheric**

70 Which of the following is not a part of overhead distribution line [d]
(a) Conductor (b) Insulator (c) Cross arms **(d) Thimbles**

71 Type of insulator not used in a 3 phase, 440 V overhead distribution line [c]
(a) Pin (b) Shackle **(c) Disc** (d) None above

72 Instrument connected in the circuit with the ammeter (in panel) to facilitate the measurement of current is [a]
(a) **Current transformer** (b) Potential transformer
(c) Excitation transformer (d) None of the above

73 Capacitor opposes [a]
(a) **Instantaneous change of voltage** (b) Instantaneous change of current
(c) Instantaneous change in resistance (d) None of the above

74 Inductor opposes [b]
(a) Instantaneous change of voltage
(b) Instantaneous change of current
(c) Instantaneous change in resistance
(d) None of the above

75 Current is [a]
(a) Rate of flow of charge (b) Gradual change in resistance
(c) Linear change in capacitance (d) None of the above.

76 When resistances are connected in parallel, the equivalent resistance [a]
(a) Decreases (b) Increases
(c) No change (d) May increase or decrease

77 When resistances are connected in series, the equivalent resistance [b]
(a) Decreases **(b) Increases**
(c) No change (d) May increase or decrease

78 Diode allows the flow of the current [a]
(a) **In one direction** (b) In both the directions
(c) Flow of current not allowed (d) None of the above.

79 When capacitances are connected in parallel, the equivalent capacitance [b]
(a) Decreases **(b) Increases**
(c) no change (d) May increase or decrease

80 When capacitances are connected in series, the equivalent capacitance [a]
(a) **Decreases** (b) Increases
(c) No change (d) May increase or decrease

81 Two lamps of 60 W and one of 100 W are connected in series to a supply 220 V, the current flowing in the circuit will be [a]
(a) **1A** (b) 2A
(c) 3A (d) 4A

82 A 2 x 40 W box type fitting glows for 10 hrs in a day, units consumed per day will be [c]
(a) 0.72 (b) 0.04
(c) 0.8 (d) 1

83 A 2 x 40 W box type fitting glows for 10 hrs in a day, electric charges for the month of June @ Rs. 3/- per unit will be Rs. [c]
(a) 18 (b) 3.60
(c) 72 (d) 90

84 One ordinary ceiling fan works for 12 hrs in a day, units consumed per day will be [a]
(a) 0.72 (b) 0.04
(c) 0.8 (d) 1

85 One ordinary ceiling fan works for 12 hrs in a day, electric charges per day @ Rs. 2/- per unit will be [b]
(a) 0.72 **(b) 1.44**
(c) 0.8 (d) 1

86 One 20 inch desert cooler (150 W) works for 8 hrs per day, units consumed per day will be [a]
(a) 1.2 (b) 1.8 (c) 2.1 (d) 2.4

87 One 20 inch desert cooler (150 W) works for 8 hrs per day, electric charges for the month of July @ Rs. 3/- per unit will be [a]
(a) 111. 6 (b) 110.2 (c) 90 (d) 115.3

88 A geyser of 25 ltrs., 1500 W remains ON for 2 hrs per day, units consumed for 6 months will be [a]
(a) 540 (b) 480 (c) 620 (d) 700

89 One 60 w lamp and 2 fans works for 10 hrs per day, units consumed per day will be [a]
(a) 1.8 (b) 2.1 (c) 1.7 (d) 3

90 A 10 hp pump works for 10 hrs per day, monthly consumption will be [d]
(a) 223.8 (b) 2.23 (c) 22.38 (**d) 2238**

91 A grinders in a factory, equipped with 1.5 hp motor, works for 6 hrs per day, the units consumed per day will be [b]
(a) 5.490 **(b) 6.714** (c) 2388 (d) 1940

92 Internal resistance of a cell is 0.1 ohm and 10 cells are connected in series to form a battery supplying a current of 1 A, the power lost in the battery is [b]
(a) 0.5 W **(b) 1 W** (c) 5 W (d) 50 W

93 The resistance of human body lies between [d]
(a) 100-200 ohm (b) 5 K ohm-50 K ohm
(c) 1 M ohm-10 M ohm **(d) 100 k ohm-500 K ohm**

94 Instrument used to measure electric energy consumption is [c]
(a) Galvanometer (b) Potentiometer
(c) Energy meter (d) None of the above

95 Which of the following keeps the poles straight [a]
(a) **Stay rod** (b) Cross arm
(c) Conductor (d) Insulator

96 Inside the geyser there is a [b]
(a) Filament **(b) Immersion rod**(c) Any of a & b (d) None of the above

97 Which of the following is used for concealed wiring in a house [a]
(a) **PVC conduit** (b) GI pipe (c) Spun concrete pipe (d) Any of the above.

98 The size of copper wire used for point wiring in sq mm is [a]
(a) 1.5 (b) 2.5 (c) 4 (d) 10

99 The size of copper wire used for sub main in sq mm is [b]
(a) 1.5 **(b) 2.5** (c) 4 (d) 10

100 The size of Aluminium wire used for point wiring in sq mm is [c]
(a) 1.5 (b) 2.5 **(c) 4** (d) 10

101 The combined Earth resistance of 33kV/11 kV receiving station should not exceed [a]
(a) **1 ohm** (b) 2 ohms (c) 10 ohms (d) 20 ohms

102 The combined earth resistance of 11 kV/415 V Sub-station should not exceed [b]
(a) 0.5 Ω **(b) 2 Ω**
(c) 10 Ω (d) 20 Ω

103 The integration time employed by supply authorities for recording [b]
M.D. for a 33 kV/415 V, 10 MVA Sub-station is –
(a) 5 minutes **(b) 15 minutes** (c) 45 minutes (d) 60 minutes

104 While designing a sub-station anticipated future loads in the next … years are taken [d]
(a) 1 year (b) 2 years (c) 20 years **(d) 5-7 years**

105 As per the present Tariff the minimum power factor of sub-station should be [c]
(a) 0.8 (b) 0.85 **(c) 0.90** (d)0.95

106 The minimum clearance of lowest conductor from the ground of 33 kV [c]
lines, across the road.
(a) 3 M (b) 4 M **(c) 6.1 M** (d) 14 M

107 The minimum clearance of lowest conductor from the ground [a]
of 33 kV lines, along a street.
(a) **5.8 M** (b) 3.0 M (c) 4.0 M (d) 14 M

108. The minimum vertical clearance from 11 kV line to any part of building. [c]
(a) 2.0 M (b) 10.M **(c) 3.7 M** (d) 6.0 M

109. The minimum Horizontal clearance of 11 kV lines from any buildings. [b]
(a) 1.2 M **(b) 3.7 M** (c) 6.1 M (d) 10 M

110. The Visible, Audible, Partial discharge at the surface of conductor at high [b]
voltage is called –
(a) Skin affect **(b) Corona** (c) Creep (d) None of these

111. For maintaining power supply quantity the frequency variation of [b]
power supply are restricted to
(a) ± 1 % **(b) ± 3 %** (c) ± 0.5% (d) ± 10%

112. The 3 phase voltage unbalance in supply should not exceed [a]
(a) 2.5.% to 5% (b) 20% (c) 25% (d) 10%

113. For maintaining power supply quality the rate of change of frequency [c]
should not exceed.
(a) 5 Hz (b) 10 HZ **(c) 1 HZ** (d) 3 Hz

114. In Thermal Power plants the generator used are [b]

(a) AC 3 Ø, Induction Generators.

(b) AC 3 Ø, Synchronous Generators.

(c) D.C. Shunt Generators.

(d) AC 1 Ø Synchronous Generators.

115. The highest system voltage of normal 33 kV System for the purpose of design of equipments is [b]

(a) 30 kV. **(b) 36 kV.** (c) 33 kV. (d) 66 kV.

116. The Rod gap on the L.V side of 11 kV/415, 250 kVA Transformer is [d]

(a) 300 mm. (b) 100 mm.

(c) 50 mm. **(d) Rod gap L.A. is not provided for LV side of Transformer.**

117. The rated voltage of L.A. for 11 kV/415V Transformer Protection is [c]

(a) 11 kV. (b) 12 kV.

(c) 9 kV. (d) 24 kV.

118. For medium sized 11 kV/415 v, 500 kVA Transformer sub-station, the type of L.A. used are [b]

(a) Station type. **(b) Line type.**

(c) Distribution type. (d) None of these.

119. The line type L.A. used for our 11 kV and 33 kV Sub-station are having a standard normal discharge current (Peak). [a]

(a) **5 KA.** (b) 10 KA.

(c) 1.5 KA. (d) 2.5 KA.

120. The span of supports for 11 kV overhead lines should not exceed. [c]

(a) 100 m. (b) 65 m.

(c) 30 m. (d) 27 m.

121. The testing of relays should be performed at a interval of [b]

(a) 6 months **(b) 12 months**(c) 18 months (d) 24 months

122. If any live conductor in the circuit is entangled with tree branch _____ operates. [a]

(a) **EFR** (b) OVR

(c) OLR (d) Thermal relay

123. _____relay operates if there is a heavy increase in load current. [c]

(a) EFR (b) OVR

(c) OLR (d) Thermal relay

124. _____relay indicates the temperature rise of a transformer. [d]

(a) EFR (b) OVR

(c) OLR **(d) Thermal relay**

125. If the relay setting of 60/5 CT is at 3.75, then the tripping will be at [b]

(a) 60 Amp. **(b) 45 Amp.** (c) 30 Amp. (d) 50 Amp

126. The normal SPG of electrolyte of lead acid battery should be [c]

(a) 1.160 (b) 1.180 **(c) 1.220** (d) 1.240

127. The terminal voltage of a fully charged lead acid cell is [c]

(a) 1.8 V (b) 2.0 V **(c) 2.2 V** (d) 2.4 V

128. The terminal voltage of a lead acid cell should not fall below [b]

(a) 1.6 V **(b) 1.8 V** (c) 2.0 V (d) 2.2 V

129. The normal charging rate of 120 AH lead acid battery set is [c]

(a) 4 A (b) 8 A **(c) 12 A** (d) 16 A

130. The ratio of distil water and acid used to prepare new electrolyte for lead acid cell is [d]

(a) 1 : 1 (b) 2 : 1 (c) 3 : 1 **(d) 4 : 1**

131. Following law is applicable in the working of lead acid cell [c]

(a) Faradays law of self-induction.

(b) Faradays law of mutual induction

(c) Faradays law of electrolysis.

(d) Newton's law of motion.

132. The capacity of storage battery is expressed as [d]

(a) No. of recharges it can take
(b) Time for which it can be used
(c) No. of cells it contain
(d) Ampere hour it can deliver.

133. Sedimentation in lead acid cell occurs due to [a]

(a) Overcharging at high rate.

(b) Slow charging at low rate.
(c) Over discharge at low rate.
(d) Non-utilization for long periods.

134. Even when not in use, a lead acid battery should be recharged once in [a]

(a) **Six week** (b) Six days
(c) Three months (d) Six months.

135. First step to be carried out before starting work starting work on faulty portion of overhead line is to [b]

(a) Earth the line on both the ends of the portion (b)**Obtain the permit to work**
(c) Bring ladder or crane (d) Climb on the pole immediately

136. Before starting the work on faulty circuit it should be ensured that [a]

(a) The faulty portion has been isolated from the power supply
(b) The worker is strong enough to climb the pole

(c) The cable is not deep enough to dig

(d) None of the above.

137. The electric overhead line on which work is to be carried out should be necessarily earthed on both the ends to [c]

(a) Dispense the charge stored between the conductors due to capacitive effect
(b) To bring the line at zero potential
(c) Both a & b
(d) None of the above

138. One can protect himself from electric shock while working on live circuit by wearing gloves of good [b]

(a) Conducting material (b)**Insulating material**
(c) Semiconductor material (d)Any of the above.

139. Which of the following are principal safety precautions [d]

(a) Don't touch live wire or equipment with bare hands
(b) Before switching on supply see no one is working in the line
(c) Use rubber gloves and meeting.
(d) All of the above.

140. Which of the following is most effective method of artificial respiration [a]

(a) **Mouth to mouth air pumping method** (b)To use bicycle air pump
(c) Both a & b (d)None of the above

141. Which material is recommended as fire extinguisher in electrical cases [b]
(a) Carbon tetra chloride
(b) Carbon dioxide
(c) Sulphur hexafluoride
(d) Any of the above

142. Which of the following is to be necessarily kept in a electric substation [d]
(a) First aid box
(b) Stretcher
(c) Earthing rod
(d) All of the above

143. The warning board to be provided, on the switch of the line on which work is going on [a]
(a) Men at working
(b) Danger
(c) Keep away
(d) None of the above

144. Staff competent to work on overhead line of MV should be [c]
(a) Unskilled
(b) Semi skilled
(c) Highly skilled
(d) Any of the above

145. Which of the following is a renewable source of energy? [d]
a) coal b) oil c) Natural gas **d) <u>Solar</u>**

146. The law of conservation of energy states that energy [d]
a) can be created and destroyed
b) is destroyed in the process of burning
c) cannot be converted from one
d) is neither destroyed nor created; But can be transform from one form to another form

147. Absolute pressure is [c]
a) Gauge Pressure
b) Atmospheric Pressure
c) Gauge pressure + Atmospheric Pressure
d) Gauge Pressure – Atmospheric Pressure

148. 100 kCals expressed as kilojoules would be [a]
a) 418.7 kJ b) 4.187 Joules c) 4.187 kJ d) 41.87 kJ

149. When heat flows from one place to another by means of a liquid or gas, it is being transferred by [d]
a) radiation b) conduction
c) sublimation **d) convection**

150. How many watts are in a hp? [d]
a) 700 b) 725 c) 740 **d) 746**

151. The characteristic of an electrical circuit that forces current to flow is [d]
a) watts b) amps c) ohms **d) volts**

152. Voltage and resistance in an electrical circuit are related by Ohm's law and determine [d]
a) resistance b) voltage c) the type of circuit **d) current**

153. The characteristic of an electrical circuit that opposes current flow is [a]
a) resistance b) voltage c) friction d) power

154. The instrument used to measure RPM is [d]

a) Fyrite b) Pyrometer

c) Ultrasonic flow meter **d) Stroboscope**

155. Which of the following terms does not refer to specific energy consumption [d]

a) Kwh/ton b) kcal/kL c) kJ/kg **d) kg**

156. Which of the following will not motivate the employees for energy conservation? [d]

a) Incentive b) Recognition c) Reward **d) Threatening**

157. The heat input required for generating 'one' kilo watt-hour of electrical output is called as____. [b]

a) Efficiency **b) Heat Rate** c) Calorific Value d) Heat value

158. Which of the voltage is not available for Indian distribution system? [c]

a) 33 kV b) 11 kV **c) 280 V** d) 433 V

159. The power loss in transmission/distribution line depends on_____. [d]

a) Current in the line b) Resistance of the line c) Length of the line **d) All**

160. If distribution of power is raised from 11 kV to 66 kV, the voltage drop would lower by [b]

a) 6 times **b) 1/6 times** c) 36 times d) 1/36 times

161. If the distribution voltage is raised from 11 kV to 33 kV, the line loss would be: [a]

a) Less by 1/9b) More by 9 times c) No change d) None of the above

162. The maximum demand of an industry, if trivector motor records 3600 KVA for 15 minutes and 3000 kVA for next 15 minutes over a recording cycle of 30 min is_____. [c]

a) 3600 kVA b) 3000 kVA **c) 3300 kVA** d) 600 kVA

163. Presenting the load demand of a consumer against time of the day is known as___. [b]

a) Time Curve **b) Load curve** c) Demand curve d) Energy curve

164. The vector sum of active power and reactive power required is_____. [a]

a) Apparent Power b) Power Factor c) Load Factor d) Maximum Demand

165. Power factor is the ratio of_____and apparent power. [a]

a) Active power b) Reactive power c) Load Factor d) Maximum Demand

166. The kVAr rating required for improving the power factor of a load operating at 500 kW and 0.85 power factor to 0.95 is_____. [a]

a) 145 kVAr b) 500 kVAr c) 50 kVAr d) 100 kVAr

167. The rating of the capacitor at motor terminals should not be greater than _____. [b]

a) Magnetizing kVAr of the motor at full load

b) magnetizing kVAr of the motor at no load

c) magnetizing kVAr of the motor at half load

d) magnetizing kVAr of the motor at 75% load

168. The percentage reduction in distribution loses when tail end power factor raised from 0.8 to 0.95 is_____. [a]

a) 29% b) 15.8%

c) 71% d) 84%

169. If voltage applied to a 415 V rated capacitors drops by 10%, its VAR output drops by_____. [c]

a) 23% b) 87% **c) 19%** d) 10%

170. The ratio between the number of turns on the primary to the turns on the secondary of a transformer is known as: [c]

a) turns ratio b) efficiency c) **winding factor** d) power factor

171. The ratio of overall maximum demand of the plant to the sum of individual maximum demand of various equipments is_____. [b]

a) load factor **b) diversity Factor** c) demand Factor d) maximum demand

172. Core losses in transformer are caused by_____. [c]

a) Hysteresis loss b) Eddy current loss **c) both a & b** d) None

173. The load losses in transformer vary according to _____. [b]

a) Loading of transformer **b) Square of loading of transformer**

c) Cube of loading of transformer d) None

174. The total losses in a transformer operating at 50% load with designed no load and load losses at 2 kW and 20 kW respectively are_____. [a]

a) 7 kW b) 12 kW c) 4.5 kW d) 22 kW

175. The total amount of harmonics present in the system is expressed using____. [c]

a) Total Harmonic Factor b) Total Harmonic Ratio

c) Total Harmonic Distortion d) Crest Factor

176. The 5^{th} and 7^{th} harmonic in a 50 Hz power environment will have: [c]

a) voltage and current distortions with 55 Hz & 57 Hz

b) voltage and current distortions with 500 Hz & 700 Hz

c) voltage and current distortions with 250 Hz & 350 Hz

d) no voltage and current distortion at all

177. The type of energy possessed by the charged capacitor is [b]

a) Kinetic energy **b) Electrostatic** c) Potential d) Magnetic

178. The energy stored in the bonds of atoms and molecules is called [b]

a) Kinetic energy **b) Chemical energy**

c) Potential energy d) Magnetic energy

179. Active power consumption of motive drives can be determined by using one of the following relations. [d]

a) $\sqrt{3} \times V \times I$ b) $\sqrt{3} \times V^2 \times I \times \cos\phi$

c) $\sqrt{3} \times V \times I^2 \times \text{Cos}\phi$ **d) $\sqrt{3} \times V \times I \times \text{Cos}\phi$**

180. The grade of energy can be classified as low, high, extra ordinary. In case of electrical energy it would fall under_____category. [c]

a) low grade b) extra ordinary grade

c) high grade d) none of the above

181. The portion of apparent power that doesn't do any work is termed as [c]

a) Apparent power b) Active power

c) Reactive Power d) None of the above

182. Power factor (PF) is the ratio of **[c]**

a) Apparent power & Active power b) Active power & Reactive power

c) Active Power & Apparent power d) Apparent power & Reactive power

183. kVA is also called as [b]

a) reactive power **b) apparent power** c) active power d) captive power

184. The energy consumed by a 50 kW motor loaded at 40 kW over a period of 4 hours is [b]

a). 50 kWh **b) 160 kWh** c) 40 kWh d) 2000 kWh

185. The ratio of maximum demand to the connected load is termed as [b]

a) Load factor **b) Demand factor**

c) Contract demand d) none of the above

186. A single phase induction motor is drawing 10 amps at 230 volts. If the operating power factor of the motor is 0.9, then the power drawn by the motor is [c]

a) 2.3 kW b) 3.58 kW **c) 2.07 kW** d) 2.70 kW

187. The quantity of heat required to raise the temperature of 1 gram of water by 1 ^{O}C is termed as [c]

a) Specific heat b) Heat capacity **c) One Calorie** d) Sensible heat

188. Nameplate kW or HP rating of a motor indicates [b]

a) input kW to the motor **b) output kW of the motor**

c) minimum input kW to the motor d) maximum input kW to the motor

189. The quantity of heat required to change 1 kg of the substance from liquid to vapour state without change of temperature is termed as [b]

a) Latent heat of fusion **b) Latent heat of vaporization**

c) Heat capacity d) Sensible heat

190. The latent heat of condensation of 1 kg of steam at 100 °C to form water at 100 °C, it gives out the heat of [b]

a) 580 kCal **b) 540 kCal** c) 620 kCal d) 2260 kCal

191. The specific heat of __ is very high compared to other common substances listed below [c].

a) Lead b) Mercury **c) Water** d) Alcohol

192. The property of viscosity of liquid fuels: [c]

a) decreases with decreasing temperature

b) increases with increasing temperature

c) decreases with increasing temperature

d) increases with decreasing temperature

193. The quantity of heat Q, supplied to a substance to increase its temperature depends upon the following. [c]

a) sensible heat added b) latent heat of fusion

c) specific heat of the substance d) heat capacity

194. Unit of specific heat in SI system is_____. [c]

a) **joule /kg °C** b) kg/cm^2 c) kcal/m^3 d) kcal/cm^2

195. The change by which any substance is converted from a gaseous state to liquid state is termed as ----- [a]

a) **condensation** b) Evaporation c) Fusion d) Phase change

196. The method of producing power by utilizing steam generated for process in the boiler is termed as ----- [b]

a) Extraction **b) Cogeneration** c) Both a & b d) Neither a nor b

197. The S.I. unit of power is
(a) Henry (b) coulomb
(c) watt (d) watt-hour
Ans: c

198. Electric pressure is also called
(a) resistance (b) power
(c) voltage (d) energy
Ans: c

199. The substances which have a large number of free electrons and offer a low resistance are called
(a) insulators (b) inductors
(c) semi-conductors (d) conductors
Ans: d

200. Out of the following which is not a poor conductor?
(a) Cast iron (b) Copper
(c) Carbon (d) Tungsten
Ans: b

201. Out of the following which is an insulating material?
(a) Copper (b) Gold
(c) Silver (d) Paper
Ans: d

202. The property of a conductor due to which it passes current is called
(a) resistance (b) reluctance
(c) conductance (d) inductance
Ans: c

203. Conductance is reciprocal of
(a) resistance (b) inductance
(c) reluctance (d) capacitance
Ans: a

204. The resistance of a conductor varies inversely as
(a) length (b) area of cross-section
(c) temperature (d) resistivity
Ans: b

205. With rise in temperature the resistance of pure metals
(a) increases (b) decreases
(c) first increases and then decreases (d) remains constant
Ans: a

206. With rise in temperature the resistance of semi- conductors
(a) decreases (b) increases
(c) first increases and then decreases (d) remains constant
Ans: a

207. The resistance of a copper wire 200 m long is 21 Q. If its thickness (diameter) is 0.44 mm, its specific resistance is around
(a) 1.2 x 10~8 Q-m (b) 1.4 x 10~8 Q-m
(c) 1.6 x 10″”8 Q-m (d) 1.8 x 10″8 Q-m
Ans: c

208. Three resistances of 10 ohms, 15 ohms and 30 ohms are connected in parallel. The total resistance of the combination is
(a) 5 ohms (b) 10 ohms
(c) 15 ohms (d) 55 ohms
Ans: a

209. An instrument which detects electric current is known as
(a) voltmeter (b) rheostat
(c) wattmeter (d) galvanometer
Ans: d

210. In a circuit a 33 Q resistor carries a current of 2 A. The voltage across the resistor is
(a) 33 V (b) 66 v
(c) 80 V (d) 132 V
Ans: b

211. A light bulb draws 300 mA when the voltage across it is 240 V. The resistance of the light bulb is
(a) 400 Q (b) 600 Q
(c) 800 Q (d) 1000 Q
Ans: c

212. The resistance of a parallel circuit consisting of two branches is 12 ohms. If the resistance of one branch is 18 ohms, what is the resistance of the other?
(a) 18 Q (b) 36 Q
(c) 48 Q (d) 64 Q
Ans: b

213. Four wires of same material, the same cross-sectional area and the same length when connected in parallel give a resistance of 0.25 Q. If the same four wires are connected is series the effective resistance will be
(a) 1 Q (b) 2 Q
(c) 3 Q (d) 4 Q
Ans: d

214. A current of 16 amperes divides between two branches in parallel of resistances 8 ohms and 12ohms respectively. The current in each branch is
(a) 6.4 A, 6.9 A (b) 6.4 A, 9.6 A
(c) 4.6 A, 6.9 A (d) 4.6 A, 9.6 A
Ans: b

215. Current velocity through a copper conductor is
(a) the same as propagation velocity of electric energy
(b) independent of current strength
(c) of the order of a few ^.s/m
(d) nearly 3 x 108 m/s

Ans: c

216. Which of the following material has nearly zero temperature co-efficient of resistance?
(a) Manganin (b) Porcelain
(c) Carbon (d) Copper
Ans: a

217. You have to replace 1500 Q resistor in radio. You have no 1500 Q resistor but have several 1000 Q ones which you would connect
(a) two in parallel (b) two in parallel and one in series
(c) three in parallel (d) three in series
Ans: b

218. Two resistors are said to be connected in series when
(a) same current passes in turn through both
(b) both carry the same value of current
(c) total current equals the sum of branch currents
(d) sum of IR drops equals the applied e.m.f.
Ans: a

219. Which of the following statement is true both for a series and a parallel D.C. circuit?
(a) Elements have individual currents (b) Currents are additive
(c) Voltages are additive (d) Power are additive
Ans: d

220. Which of the following materials has a negative temperature co-efficient of resistance?
(a) Copper (b) Aluminum
(c) Carbon (d) Brass
Ans: c

221. Ohm's law is not applicable to
(a) vacuum tubes (b) carbon resistors
(c) high voltage circuits (d) circuits with low current densities
Ans: a

222. Which is the best conductor of electricity?
(a) Iron (b) Silver
(c) Copper (d) Carbon
Ans: b

223. For which of the following 'ampere second' could be the unit ?
(a) Reluctance (b) Charge
(c) Power (d) Energy
Ans: b

224. All of the following are equivalent to watt except
(a) (amperes) ohm (b) joules/sec.
(c) amperes x volts (d) amperes/volt
Ans: d

225. A resistance having rating 10 ohms, 10 W is likely to be a
(a) metallic resistor (b) carbon resistor
(c) wire wound resistor (d) variable resistor
Ans: c

226. Which one of the following does not have negative temperature co-efficient?
(a) Aluminium (b) Paper
(c) Rubber (d) Mica
Ans: a

227. Varistors are
(a) insulators (b) non-linear resistors
(c) carbon resistors (d)resistors with zero temperature coefficient
Ans: b

228. Insulating materials have the function of
(a) preventing a short circuit between conducting wires
(b) preventing an open circuit between the voltage source and the load
(c) conducting very large currents
(d) storing very high currents
Ans: b

229. The rating of a fuse wire is always expressed in
(a) ampere-hours (b) ampere-volts
(c) kWh (d) amperes
Ans: d

230. The minimum charge on an ion is
(a) equal to the atomic number of the atom
(b) equal to the charge of an electron
(c) equal to the charge of the number of electrons in an atom
(d) zero
Ans: b

231. In a series circuit with unequal resistances
(a) the highest resistance has the most of the current through it
(b) the lowest resistance has the highest voltage drop
(c) the lowest resistance has the highest current
(d) the highest resistance has the highest voltage drop
Ans: d

232. The filament of an electric bulb is made of
(a) carbon (b) aluminium
(c) tungsten (d) nickel
Ans: c

233. A 3 Q resistor having 2 A current will dissipate the power of
(a) 2 watts (b) 4 watts
(c) 6 watts (d) 8 watts
Ans: c

234. Which of the following statement is true?
(a) A galvanometer with low resistance in parallel is a voltmeter
(b) A galvanometer with high resistance in parallel is a voltmeter
(c) A galvanometer with low resistance in series is an ammeter
(d) A galvanometer with high resistance in series is an ammeter
Ans: c

235. The resistance of a few meters of wire conductor in closed electrical circuit is
(a) Practically zero (b) low
(c) high (d) very high
Ans: a

236. If a parallel circuit is opened in the main line, the current
(a) increases in the branch of the lowest resistance
(b) increases in each branch
(c) is zero in all branches
(d) is zero in the highest resistive branch
Ans: c

237. If a wire conductor of 0.2 ohm resistance is doubled in length, its resistance becomes
(a) 0.4 ohm (b) 0.6 ohm
(c) 0.8 ohm (d) 1.0 ohm
Ans: a

238. Three 60 W bulbs are in parallel across the 60 V power line. If one bulb burns open
(a) there will be heavy current in the main line
(b) rest of the two bulbs will not light
(c) all three bulbs will light
(d) the other two bulbs will light
Ans: d

239. The four bulbs of 40 W each are connected in series swift a battery across them, which of the following statement is true ?
(a) The current through each bulb in same
(b) The voltage across each bulb is not same
(c) The power dissipation in each bulb is not same
(d) None of the above
Ans: a

240. Two resistances Rl and Ri are connected in series across the voltage source where Rl>Ri. The largest drop will be across
(a) Rl (b) Ri
(c) either Rl or Ri (d) none of them
Ans: a

241. What will be energy used by the battery if the battery has to drive 6.28 x 1018 electrons with potential difference of 20 V across the terminal ?
(a) 5 joules (b) 10 joules
(c) 15 joules (d) 20 joules
Ans:

242. A closed switch has a resistance of
(a) zero
(b) about 50 ohms
(c) about 500 ohms
(d) infinity
Ans: a

243. The hot resistance of the bulb's filament is higher than its cold resistance because the temperature co-efficient of the filament is
(a) zero (b) negative
(c) positive (d) about 2 ohms per degree
Ans: c

244. Heat in a conductor is produced on the passage of electric current due to
(a) reactance (b) capacitance
(c) impedance (d) resistance
Ans:

245. The insulation on a current carrying conductor is provided
(a) to prevent leakage of current (b) to prevent shock
(c) both of above factors (d) none of above factors
Ans: c

246. The thickness of insulation provided on the conductor depends on
(a) the magnitude of voltage on the conductor
(b) the magnitude of current flowing through it
(c) both (a) and (b)
(d) none of the above
Ans: a

247. Which of the following quantities remain the same in all parts of a series circuit?
(a) Voltage (b) Current
(c) Power (d) Resistance
Ans: b

248. A 40 W bulb is connected in series with a room heater. If now 40 W bulb is replaced by 100 W bulb, the heater output will
(a) decrease (b) increase
(c) remain same (d) heater will burn out
Ans: b

249. In an electric kettle water boils in 10 m minutes. It is required to boil the boiler in 15 minutes, using same supply mains
(a) length of heating element should be decreased
(b) length of heating element should be increased
(c) length of heating element has no effect on heating if water
(d) none of the above
Ans: a

250. An electric filament bulb can be worked from
(a) D.C. supply only (b) A.C. supply only
(c) Battery supply only (d) All above
Ans: d

251. Resistance of a tungsten lamp as applied voltage increases
(a) decreases (b) increases
(c) remains same (d) none of the above
Ans: b

252. Electric current passing through the circuit produces
(a) magnetic effect (b) luminous effect
(c) thermal effect (d) chemical effect
(e) all above effects
Ans: c

253. Resistance of a material always decreases if
(a) temperature of material is decreased
(b) temperature of material is increased
(c) number of free electrons available become more
(d) none of the above is correct
Ans: c

254. If the efficiency of a machine is to be high, what should be low ?
(a) Input power (b) Losses
(c) True component of power (d) kWh consumed
(e) Ratio of output to input
Ans: b

255. When electric current passes through a metallic conductor, its temperature rises. This is due to
(a) collisions between conduction electrons and atoms
(b) the release of conduction electrons from parent atoms
(c) mutual collisions between metal atoms
(d) mutual collisions between conducting electrons
Ans: a

256. Two bulbs of 500 W and 200 W rated at 250 V will have resistance ratio as
(a) 4 : 25 (b) 25 : 4
(c) 2 : 5 (d) 5 : 2
Ans: c

257. A glass rod when rubbed with silk cloth is charged because
(a) it takes in proton (b) its atoms are removed
(c) it gives away electrons (d) it gives away positive charge
Ans: c

258. Whether circuit may be AC. or D.C. one, following is most effective in reducing the magnitude of the current.
(a) Reactor (b) Capacitor
(c) Inductor (d) Resistor
Ans: d

259. It becomes more difficult to remove
(a) any electron from the orbit (b) first electron from the orbit
(c) second electron from the orbit (d) third electron from the orbit
Ans: d

260. When one leg of parallel circuit is opened out the total current will
(a) reduce (b) increase
(c) decrease (d) become zero
Ans: c

261. In a lamp load when more than one lamp are switched on the total resistance of the load
(a) increases (b) decreases
(c) remains same (d) none of the above
Ans: b

262. Two lamps 100 W and 40 W are connected in series across 230 V (alternating).
Which of the following statement is correct ?
(a) 100 W lamp will glow brighter (b) 40 W lamp will glow brighter
(c) Both lamps will glow equally bright (d) 40 W lamp will fuse
Ans: b

263. Resistance of 220 V, 100 W lamp will be
(a) 4.84 Q (b) 48.4 Q
(c) 484 ft (d) 4840 Q
Ans: c

264. In the case of direct current
(a) magnitude and direction of current remains constant
(b) magnitude and direction of current changes with time
(c) magnitude of current changes with time
(d) magnitude of current remains constant
Ans: a

265. When electric current passes through a bucket full of water, lot of bubbling is observed. This suggests that the type of supply is
(a) A.C. (b) D.C.
(c) any of above two (d) none of the above
Ans: b

266. Resistance of carbon filament lamp as the applied voltage increases.
(a) increases (b) decreases
(c) remains same (d) none of the above
Ans: b

267. Bulbs in street lighting are all connected in
(a) parallel (b) series
(c) series-parallel (d) end-to-end
Ans: a

268. For testing appliances, the wattage of test lamp should be
(a) very low (b) low
(c) high (d) any value
Ans: c

269. Switching of a lamp in house produces noise in the radio. This is because switching operation produces
(a) arcs across separating contacts
(b) mechanical noise of high intensity
(c) both mechanical noise and arc between contacts
(d) none of the above
Ans: a

270. Sparking occurs when a load is switched off because the circuit has high
(a) resistance (b) inductance
(c) capacitance (d) impedance
Ans: b

271. Copper wire of certain length and resistance is drawn out to three times its length without change in volume, the new resistance of wire becomes
(a) 1/9 times (b) 3 times
(c) 9 times (d) unchanged
Ans: c

272. When resistance element of a heater fuses and then we reconnect it after removing a portion of it, the power of the heater will
(a) decrease (b) increase
(c) remain constant (d) none of the above
Ans: b

273. A field of force can exist only between
(a) two molecules (b) two ions
(c) two atoms (d) two metal particles
Ans: b

274. A substance whose molecules consist of dissimilar atoms is called
(a) semi-conductor (b) super-conductor
(c) compound (d) insulator
Ans: c

275. International ohm is defined in terms of the resistance of
(a) a column of mercury (b) a cube of carbon
(c) a cube of copper (d) the unit length of wire
Ans: a

276. Three identical resistors are first connected in parallel and then in series. The resultant resistance of the first combination to the second will be
(a) 9 times (b) 1/9 times
(c) 1/3 times (d) 3 times
Ans: b

277. Which method can be used for absolute measurement of resistances?
(a) Lorentz method (b) Raleigh method
(c) Ohm's law method (d) Wheatstone bridge method
Ans: d

278. Three 6 ohm resistors are connected to form a triangle. What is the resistance between any two corners?
(a) 3/2 Q (b) 6 Q
(c) 4 Q (d) 8/3 Q
Ans: c

279. Ohm's law is not applicable to
(a) semi-conductors (b) D.C. circuits
(c) small resistors (d) high currents
Ans: a

280. Two copper conductors have equal length. The cross- sectional area of one conductor is four times that of the other. If the conductor having smaller cross-sectional area has a resistance of 40 ohms the resistance of other conductor will be
(a) 160 ohms (b) 80 ohms
(c) 20 ohms (d) 10 ohms
Ans: d

281. A nichrome wire used as a heater coil has the resistance of 2 Ω/m. For a heater of 1 kW at 200 V, the length of wire required will be
(a) 80 m (b) 60 m
(c) 40 m (d) 20 m
Ans: a

282. Temperature co-efficient of resistance is expressed in terms of
(a) ohms/°C (b) mhos/ohm°C
(c) ohms/ohm°C (d) mhos/°C
Ans: c

283. Which of the following materials has the least resistivity?
(a) Zinc (b) Lead
(c) Mercury (d) Copper
Ans: d

284. When current flows through heater coil it glows but supply wiring does not glow because
(a) current through supply line flows at slower speed
(b) supply wiring is covered with insulation layer
(c) resistance of heater coil is more than the supply wires
(d) supply wires are made of superior material
Ans: c

285. The condition for the validity under Ohm's law is that
(a) resistance must be uniform
(b) current should be proportional to the size of the resistance
(c) resistance must be wire wound type
(d) temperature at positive end should be more than the temperature at negative end
Ans: a

286. Which of the following statement is correct ?
(a) A semi-conductor is a material whose conductivity is same as between that of a conductor and an insulator
(b) A semi-conductor is a material which has conductivity having average value of conductivity of metal and insulator
(c) A semi-conductor is one which con¬ducts only half of the applied voltage
(d) A semi-conductor is a material made of alternate layers of conducting material and insulator
Ans: a

287. A rheostat differs from potentiometer in the respect that it
(a) has lower wattage rating
(b) has higher wattage rating
(c) has large number of turns
(d) offers large number of tapping
Ans: b

288. The weight of an aluminium conductor as compared to a copper conductor of identical cross-section, for the same electrical resistance, is
(a) 50% (b) 60%
(c) 100% (d) 150%
Ans: a

289. An open resistor, when checked with an ohm-meter reads
(a) zero (b) infinite
(c) high but within tolerance (d) low but not zero
Ans: b

290. are the materials having electrical conductivity much less than most of the metals but much greater than that of typical insulators.
(a) Varistors (b) Thermistor
(c) Semi-conductors (d) Variable resistors
Ans: c

291. All good conductors have high
(a) conductance (b) resistance
(c) reluctance (d) thermal conductivity
Ans: a

292. Voltage dependent resistors are usually made from
(a) charcoal (b) silicon carbide
(c) nichrome (d) graphite
Ans: c

293. Voltage dependent resistors are used
(a) for inductive circuits (b) to suppress surges
(c) as heating elements (d) as current stabilizers
Ans: b

294. The ratio of mass of proton to that of electron is nearly
(a) 1840 (b) 1840
(c) 30 (d) 4
Ans: a

295. The number of electrons in the outer most orbit of carbon atom is
(a) 3 (b) 4
(c) 6 (d) 7
Ans: b

296. With three resistances connected in parallel, if each dissipates 20 W the total power supplied by the voltage source equals
(a) 10 W (b) 20 W
(c) 40 W (d) 60 W
Ans: d

297. A thermistor has
(a) positive temperature coefficient (b) negative temperature coefficient
(c) zero temperature coefficient (d) variable temperature coefficient
Ans: c

298. If/, R and t are the current, resistance and time respectively, then according to Joule's law heat produced will be proportional to
(a) I^2Rt (b) I^2Rf
(c) I^2R^2t (d) I^2R^2t*
Ans: a

299. Nichrome wire is an alloy of
(a) lead and zinc (b) chromium and vanadium
(c) nickel and chromium (d) copper and silver
Ans: c

300. When a voltage of one volt is applied, a circuit allows one micro ampere current to flow through it. The conductance of the circuit is
(a) 1 n-mho (b) 106 mho
(c) 1 milli-mho (d) none of the above
Ans: a

301. Which of the following can have negative temperature coefficient?
(a) Compounds of silver (b) Liquid metals
(c) Metallic alloys (d) Electrolytes
Ans: d

302. Conductance : mho ::
(a) resistance : ohm (b) capacitance : henry
(c) inductance : farad (d) lumen : steradian
Ans: a

303. 1 angstrom is equal to
(a) 10-8 mm (b) 10″6 cm
(c) 10″10 m (d) 10~14 m
Ans: c

304. One newton meter is same as
(a) one watt (b) one joule
(c) five joules (d) one joule second
Ans: b

2. BASIC ELECTRONICS

1. Electron-hole pair are produced by
(a) recombination **(b) thermal energy**
(c) ionization (d)doping

2 . Recombination is when
(a) an electron falls into a hole
(b) a positive and a negative ion bond together
(c) a valence electron becomes a conduction electron
(d)a crystal is formed

3 . Each atom in a silicon crystal has
(a) four valence electrons
(b) four conduction electrons
(c) eight valence electrons, four of its own and four shared
(d) no valence electrons because all are shared with other atoms

4. The current in a semiconductor is produced by
(a) electrons only (b) holes only
(c) negative ions **(d)both electrons and holes**

5. The process of adding an impurity to an intrinsic semiconductor is called
(a) doping (b) recombination
(c)atomic modification (d)ionization

6 . A trivalent impurity is added to silicon to create
(a) germanium **(b) a p-type semiconductor**
(c) an n-type semiconductor (d) a depletion region

7. The purpose of pentavalent impurity is to
(a) reduce the conductivity (b) increase the number of holes
(c) increase the number of free electrons (d)create minority carriers

8 . For a silicon diode, the value of the forward-bias voltage typically
(a) must be greater than 0.3V
(b) must be greater than 0.7V
(c) depends on the width of depletion region
(d)depends on the concentration of majority carriers

9. When forward biased, a diode
(a) blocks current **(b) conducts current**
(c) has a high resistance (d) drops a large voltage

10. When a voltmeter is placed across a forward-biased diode, it will read a voltage approximately equal to
(a) the bias battery voltage (b) 0V
(c) the diode barrier potential (d) the total circuit voltage

11. The term bias means
(a) the ration of majority carriers to minority carriers
(b) the amount of current across a diode
(c) a dc voltage is applied to control the operation of a device
(d) none of the above

12 .In a LED, the light is produced by a solid state process called as
(a) light radiation **(b) electroluminescence**
(c) light multiplication (d) phospherence

13 . Efficiency of LED is given by
(a) light to light conversion
(b) light to electrical conversion
(c) electrical power to visible light conversion
(d) none of above

14. The wavelength of the light emitted and its color depends on the
(a) forward voltage
(b) forward current
(c) band gap energy of the material forming P-N junction
(d) none of the above

15. The material used for red LED is
(a) GaP (b) GaAsP
(c) AlGaAs **(d) Above all**

16. A silicon diode is in series with a 1.0 kΩ resistor and a 5V battery. If the anode is connected to the positive battery terminal, the cathode voltage with respect to the negative battery terminal is
(a) 0.7V (b) 0.3V
(c) 5.7V **(d) 4.3V**

17. Although current is blocked in reverse bias,
(a) there is some current due to majority carrier
(b) there is very small current due to minority carriers
(c) there is an avalanche current
(d) none of the above

18. The average value of a half wave rectified voltage with a peak value of 200V is
(a) 63.7V (b) 127.3V
(c) 141V (d) 0V

19. When a 60Hz sinusoidal voltage is applied to the input of a half-wave rectifier, the output frequency is
(a) 120Hz (b) 30Hz
(c) 60Hz (d) 0Hz

20. The peak value of the input to a half-wave rectifier is 10V.The approximate peak value of the output is
(a) 10V (b) 3.18V
(c) 10.7V **(d) 9.3V**

21. The average value of full-wave rectified voltage with a peak value of 75V is
(a) 53V (b) 47.8V
(c) 37.5V (d) 23.9V

22. When a 60Hz sinusoidal voltage is applied to the input of a full-wave rectifier, the output frequency is
(a) 120Hz (b) 60Hz
(c) 240Hz (d) 0Hz

23. The total secondary voltage in a center-tapped full-wave rectifier is 125Vrms.Neglecting the diode drop, the rms output voltage is
(a) 125V (b) 177V
(c) 100V **(d) 62.5V**

24. When the peak output voltage is 100V,the PIV for each diode in a center-tapped full-wave rectifier is (neglecting the diode drop)
(a) 100V **(b) 200V**
(c) 141V (d) 50V

25. The ideal dc output voltage of a capacitor-input filter is equal to
(a) The peak value of the rectified voltage
(b) The average value of the rectified voltage
(c) The rms value of the rectified voltage
(d) None of the above

26. If the load resistance of a capacitor-filtered full-wave rectifier is reduced, the ripple voltage
(a) increases (b) decreases
(c) is not affected (d) has a different frequency

27 . If one of the diodes in a bridge full-wave rectifier opens, the output is approximately
(a) 0V
(b) one-fourth the amplitude of the input voltage
(c) a half-wave rectified voltage
(d) a 120Hz voltage

28. The cathode of zener diode in a voltage regulator is normally
(a) more positive than the anode (b) more negative than the anode
(c) at +0.7 V (d) grounded

29 . If a certain zener diode has a zener voltage of 3.6V,it operates in
(a) regulated breakdown **(b) Zener breakdown**
(c) forward conduction (d) avalanche breakdown

30. The data sheet for a particular zener gives VZ=10V at IZT=500mA.ZZ for these conditions is
(a) 50Ω **(b) 20Ω**
(c) 10 Ω (d) unknown

31. An LED
(a) emits light when reverse biased (b) senses light when reverse biased
(c) emits light when forward biased (d) acts as a variable resistance

32. When operated in cutoff and saturation, the transistor acts like
(a) a linear amplifier **(b) a switch**
(c) a variable capacitor (d) a variable resistance

33. In a voltage divider biased npn transistor, if the upper voltage-divider resistor(the one connected to VCC) opens,
(a) **the transistor goes into cutoff** (b) the transistor goes into saturation
(c) the transistor burns out (d) the supply voltage is too high

34. In a voltage divider biased npn transistor, if the lower voltage-divider resistor(the one connected to ground) opens,
(a) **the transistor goes into cutoff** (b) the transistor goes into saturation
(c) the transistor burns out (d) the supply voltage is too high

35. A certain common-emitter amplifier has a voltage gain of 100.If the emitter bypass capacitor is removed,
(a) The circuit will become unstable **(b) the voltage gain will decrease**
(c) the voltage gain will increase (d) The Q-point will shift

3. ELECTRICAL UNITS: EQUIVALENTS & FORMULAE

1. One HP = [a]

(a) **746 watts** (b) 756 watts (c) 860 watts (d) 856 watts

2. Torque in ft. lbs. = [b]

(a) HP x 33000 / (RPM x 2) **(b) HP x 2 / (RPM x 33000)**

(b) HP x RPM / (2 x 33000) (d) RPM x 2 / (HP x 33000)

3. Current = [a]

(a) **Watts/Volts** (b) Volts/Watts

(c) Kilowatt/Volts (d) Kilovolt/watt

4. Motor output in HP= [a]

(a) **KW input x efficiency/0.746** (b) KW input x 0.746/efficiency

(c) Efficiency x 0.746/KW input (d) 0.746/(KW input x efficiency)

5. kVA equal to [d]

(a) 1000 x Amps/ volts (b) volts x Amps x 1000

(c) Volts x 1000/Amps **(d) Amps x volts/1000**

6. Power factor = [a]

(a) **True Power/Apparent power** (b) Apparent power/True power

(c) Average power/True power (d) Apparent power/Average power

7. True power in three-phase circuit in Kilowatt is [b]

(a) 1.414 x volts x amperes x pf/1000 **(b) 1.73 x volts x amperes x pf/1000**

(c) Volts x Amperes x pf/1000 (d) Volts x Amperes x 1000/pf

8. Amperes drawn by single-phase motor are equal to [c]

(a) Efficiency x Volts x pf / (HP x 746) (b) Efficiency x pf/(volt x HP x 746)

(c) HP x 746 / (Efficiency x volts x pf) (d) HP x746 x volts/(Efficiency x pf)

9. Amperes drawn by three phase motor are equal to [c]

(a) Efficiency x Volts x pf / (HP x 746) (b) Efficiency x pf/(volt x HP x 746)

(c) HP x 746/(Efficiency x volts x pf x 1.73) (d) HP x 746 x volts/(Efficiency x pf)

10. One Kilowatt = [a]

(a) **1.314 HP** (b) 13.41 HP (c) 134.1 HP (d) 1341 HP

11. One Kilowatt = [d]

(a) 1360 Metric HP (b) 136 Metric HP

(c) 13.60 Metric HP **(d) 1.360 Metric HP**

12. One Kwh = [c]

(a) 34.13 BTU (b) 44.13 BTU

(c) 3.413 BTU (d) 4.413 BTU

13. One Kwh = [b]

(a) 1000 calories **(b) 860 calories** (c) 740 calories (d) 970 calories

14. One BTU = [a]

(a) **0.2520 calories** (b) 2.520 calories (c) 25.20 calories (d) 252.0 calories

15. One Calorie = [d]

(a) 39.68 BTU (b) 4.968 BTU (c) 49.68 BTU **(d) 3.968 BTU**

16. One foot pound = [a]

(a) **0.1383 M Kg** (b) 1.383 M Kg (c) 13.83 M Kg (d) 138.3 M Kg

17. One BTU = [d]

(a) 0.1076 M Kg (b) 1.076 M Kg (c) 10.76 M Kg **(d) 107.6 M Kg**

18. One Kilowatt = [b]

(a) 202 M Kg/sec **(b) 102 M Kg /sec** (c) 20.2 M Kg/sec (d) 10.2 M Kg/sec

19. One Electrical Unit = [a]

(a) **1 Kwh** (b) 1 Kw (c) 1 kVA (d) Watt

20. Power factor = [a]

(a) **R/Z** (b) Z/R (c) V/I (d) I/V

21. The current rating of PVC insulated and PVC sheathed four core , armoured aluminium cable of size 120 sq mm (laid direct in ground) is approximately [b]

(a) 80 amps **(b) 185 amps** (c) 290 amps (d) 320 amps

22. The current rating of PVC insulated and PVC sheathed four core , armoured aluminium cable of size 70 sq mm (laid in duct) is approximately [a]

(a) **115 amps** (b) 210 amps (c) 290 amps (d) 350 amps

23. The current rating of PVC insulated and PVC sheathed four core , armoured aluminium cable of size 50 sq mm (laid in air) is approximately [b]

(a) 65 amps **(b) 105 amps** (c) 200 amps (d) 250 amps

24 The current rating of PVC insulated and PVC sheathed four core , armoured aluminium cable of size 35 sq mm (laid direct in ground) is approximately [a]

(a) **92 amps** (b) 160 amps (c) 200 amps (d) 250 amps

25 The current rating of PVC insulated and PVC sheathed four core , armoured aluminium cable of size 25 sq mm (laid direct in ground) is approximately [b]

(a) 55 amps **(b) 76 amps** (c) 90 amps (d) 150 amp

4. CELLS

1. An electrolyte use in train lighting cell is the mixture of **[c]**

a) Sulphuric acid and tap water
b) Sulphuric acid and mineral water
c) Sulfuric acid and demineralized/distilled water
d) None of the above

2. When cell is fully charged, the positive plate becomes **[a]**

a) Lead peroxide c) Lead sulfate
b) Spongy lead d) None

3. When the lead acid cell is fully charged the negative plate becomes **[c]**

a) Lead peroxide c) Lead sulfate
b) Spongy lead d) None

4. The capacity of cell is measured in **[a]**

a) Ampere hour c) Amperes
b) Watt hour d) Watts

5. Internal resistance of lead acid cell is mainly due to **[d]**

a) Size of plates c) Nature of electrolyte
b) Distance between the plates **d) All the above**

6. Trickle charging of storage battery help to **[a]**

a) Compensate for internal losses c) Increase its capacity
b) Maintains proper electrolyte d) None

7. The capacity of Battery used in 110V T.L system **[a]**

a) 120AH c) 320Ah
b) 210Ah d) 90AH

8. SPGR of fully charged cell **[a]**

a) 1.220 c) 1.140
b) 1.180 d) 1.100

9. SPGR of half charged cell **[a]**

a) 1.210 b) 1.140
b) 1.175 c) 1.100

10. SPGR of fully discharged cell is **[d]**

a) 1.210 c) 1.200
b) 1.175 **d) 1.140**

11. Total number of cells available in TL flooded Battery of 110V system **[a]**

a) 54 d) 18
b) 56
c) 24

12. Sulphation occurs due to **[d]**

a) Cells kept under discharged condition
b) Cells kept under not fully charged condition
c) Cells over charged
d) All the above

13. The codal life of lead acid TL/AC cells is **[a]**

a) **4**
b) 3
c) 2
d) None

14. VRLA Batteries works on **[a]**

a) Oxygen recombination principle
b) Hydrogen recombination principle
c) Hydrogen-oxygen recombination principle
d) None of the above

15. The VRLA cells can be mounted in a position. **[d]**

a) Horizontal
b) Vertical
c) Slanting
d) Both a & b

18. Conductivity is the ability of a solution to conduct electrical current commonly expressed in **[c]**

a) Amperes
b) Watt
c) Micro mhos/cm
d) None

19. Conductivity of DM water is measured by **[d]**

a) Conductivity meter
b) Universal solution
c) pH meter
d) all of the above

20. Acceptable quality of treated water conductivity is in micro mhos/cm **[a]**

a) <10
b) <30
c) 40
d) None

21. Acceptable quality of treated water PH value will be **[a]**

a) 6.8 to 7.2
b) 7.5 to 8.5
c) 8.5 to 10
d) None

22. VRLA Batteries means **[a]**

a) Valve regulated lead acid batteries
b) Voltage regulated lead acid batteries
c) Both a & b
d) None

23. SMF Batteries stands for **[a]**

a) Sealed maintenance free batteries b) Self maintenance free batteries
c) a&b d) None

24. Frequent topping up of distilled water in VRLA cells **[b]**

a) Required b) Not required
c) Sometimes required d) None

25. Self discharge of VRLA Battery_____percentage of capacity for week **[a]**

a) 0.5% to 1% b) 2%
c) 3% d) 4%

26. VRLA Battery separators can be of **[c]**

a) The gelled electrolyte type b) The absorbed electrolyte type
c) a & b d) None of the above

27. For VRLA Battery, every 1 degree C in temperature, the charge/float voltage is to be reduced by_ _____per cell **[a]**

a) 3mv b) 5 mv
c) 1 mv d) 6 mv

28. Codal life of VRLA battery is **[a]**

a) 4 years b) 5 years
c) 3 years d) 7 years

29. Charging voltage/ Current ripple factor for VRLA batteries should less than **[b]**

a) less than 5 % b) less than 2 %
c) less than 15 % d) none

30. The containers and covers of VRLA batteries are made up of **[a]**

a) PPCP (poly-Propylene co-polymer) b) Hard rubber
c) PVC d) None

31. Train Lighting mono block 120 AH battery belongs to **[a]**

a) Lead acid battery b) Nickel iron battery
c) Nickel cadmium battery d) All the above

32. The specific gravity of the concentrated sulphuric acid is **[a]**

a) 1.840 b) 1.200
c) 1.220 d) 1.180

33. The specific gravity of the electrolyte used in TL cellsis **[b]**

a) 1.800 b) 1.200
c) 1.100 d) 1.180

34. The positive plate of lead acid is made of **[a]**

a) Lead peroxide b) Spongy lead
c) Lead sulphate d) None

35. The secondary cell **[a]**

a) Once discharged it can be charged
b) Once discharged it cannot be charged
c) Once discharged it had to throw away
d) None

36. When fully charged lead acid cell is discharged, the positive and negative plates becomes **[c]**

a) Lead peroxide b) Spongy lead
c) Lead sulphate d) None

37. When the lead acid cell is recharged the specific gravity of the electrolyte **[a]**

a) Increases b) Decreases
c) As it is d) None

38. Battery capacity depends upon **[d]**

a) Size and no. of plates b) Quantity of active material present
c) Quantity of electrolyte d) All the above

39. The capacity of battery is expressed in terms of **[b]**

a) Current rating b) AH rating
c) Voltage rating d) VH rating

40. The number of positive plates in a secondary cell is always less than the negative plates by **[a]**

a) 1 b) 2
c) 3 d) None

41. Normal charge of battery is **[a]**

a) $1/10^{th}$ of the rated capacity of the battery
b) $1/20^{th}$ of the rated capacity of the battery
c) $1/5^{th}$ of the rated capacity of the battery
d) $1/30^{th}$ of the rated capacity of the battery

42. Initial charge of the battery is **[c]**

a) $1/10^{th}$ of the rated capacity of the battery
b) $1/20^{th}$ of the rated capacity of the battery
c) $1/30^{th}$ of the rated capacity of the battery
d) $1/5^{th}$ of the rated capacity of the battery

43. Batteries are provided in Train coach to provide **[a]**

a) Amenities to public such as lights and fans
b) Separate excitation of alternator field
c) Self excitation of alternator field
d) None of the above

44. The capacity of Battery used in 110V T.L system **[a]**

a) 120 AH b) 210 AH
c) 320 AH d) 90 Ah

45. Number of mono block batteries used in 110 V TL systems **[a]**

a) 18 b) 12
c) 24 d) 9

46. Over charge results in **[d]**

a) Higher temperature of electrolyte b) Corrosion of plates
c) Oxidation of the separators and loss of water d) All the above

47. Undercharging results in **[d]**

a) Irreversible Sulphation b) Reversal of cells
c) Loss of the capacity d) All the above

48. Reverse polarity is mainly due to **[a]**

a) Deep discharge b) RR Unit setting is high
c) Battery kept in fully charged condition d) None

49. Excessive gassing and high SPGR. **[a]**

a) Alternator/regulator setting high b) Alternator/regulator setting low
c) Lack of electrolyte d) None

50. Hydrometer used in TL system is **[a]**

a) Syringe type hydro meter b) Suction hydrometer
c) Both a and b d) None of the above

51. If water consumption in particular cell is more due to **[d]**

a) Hermitically sealed joint leak b) Higher charging current
c) Leakage of electrolyte due to cracks in container d) All of the above

52. Initial charging rate of lead acid battery is **[d]**

a) 0.1XC10 capacity b) 0.2XC10 Capacity
c) 0.05XC10 Capacity d) 0.033XC10 capacity

53. TL 110 V TL coaches are provided with following batteries **[a]**

a) Mono block batteries b) Individual cells
c) Both a & b d) None

54. Best quality of treated water PH Value will be **[a]**

a) 6.8 to 7.2 b) 7.5 to 8.5
c) 8.5 to 10 d) None

5. ALTERNATOR & RRU

1. Alternator is a device that converts [a]
   a. Mechanical energy into electrical energy
   b. Electrical energy into mechanical energy
   c. Chemical energy into electrical energy
   d. None of the above
2. Both field winding and 3 phase winding of AC coach alternator 120V are provided on _[a]
   a. Stator
   b. Rotor
   c. Both a and b
   d. None
3. TL/AC coach alternator 120V designed to have _____ [a]
   a. Residual magnetism
   b. Permanent magnetism
   c. Both a and b
   d. None of the above
4. Recommended Cut in speed of 4.5 KW TL alternator is by RDSO with MA RR unit _ [a]
   a. 357 rpm
   b. 600 rpm
   c. 1100 rpm
   d. 2500 rpm
5. Minimum speed for full output of 4.5 KW 120V TL alternator, recommended by RDSO is [b]
   a. 357 rpm
   b. 600 rpm
   c. 1500 rpm
   d. 2500 rpm
6. Maximum speed of TL/AC coach alternator is [d]
   a. 400 rpm
   b. 800 rpm
   c. 1500 rpm
   d. 2500 rpm
7. Field coils of 120V TL/AC coach alternator are connected in [a]
   a. Series
   b. Parallel
   c. Star
   d. Delta
8. Three phase windings of 120V TL/AC coach alternator are connected in [a]
   a. Star
   b. Delta
   c. Series
   d. Parallel
9. Size of V belts used for driving 110V 4.5KW TL alternators [a]
   a. C122
   b. C118
   c. C124
   d. None
10. Size of V belt used for driving 110V, 18, 22.5KW AC coach Alternators [a]
    a. C122
    b. C118
    c. C124
    d. None

11. Number of V belts used for driving 110V 4.5KW TL alternator is_____ [a]
    a. 4 c. 12
    b. 6 d. None

12. DC output voltage of Alternator /Regulator of 110V TL/AC coach is [a]
    a. (110-140) DC c. (90-120) DC
    b. (70-90) DC d. None

13. Rated DC output current of 4.5KW 110V Alternator is_____ [a]
    a. 37.5A c. 43A
    b. 19A d. None

14. Pitch circle diameter of Axle pulley of 110V TL system **[c]**
    a. 200mm c. 572.6mm
    b. 140mm d. None

15. As per the latest SMI, the voltage setting of alternator 4.5KW 110V for passenger train with flooded batteries is _____ **[c]**
    a. 127V DC c. 128.5V DC
    b. 124V DC d. None

16. As per the latest SMI, the voltage setting of alternator 4.5KW 110V for passenger train with VRLA batteries is_____ **[b]**
    a. 123+/-0.5V DC c. 121+/-0.5V DC
    b. 128.5+/-0.5V DC d. None

17. The purpose of TL Alternator used in Railways. **[d]**
    a. Charging the coach battery on train run
    b. Working of lights and fans in the coach during train run
    c. Sharing the load to other coaches in case of emergency
    d. All the three above

18. The capacity of alternator used for BG coach 110V Train Lighting system. **[b]**
    a. 3KW c. 12KW
    b. 4.5KW d. None

19. The field resistance of 4.5KW 110V TL alternator has **[a]**

a. 4.5 +/-0.5 ohms
c. 10+/-0.5 ohms
b. 6.0+/-0.5 ohms
d. None

20. The resistance between two phases of 4.5KW 110V TL alternator is **[a]**

a. 0.4 +/-0.05 ohms
b. 0.8 +/-0.10 ohms
c. 4.5 +/-0.5 ohms
d. None

21. The purpose of providing anti rotating clamp near suspension arrangement of alternator is **[d]**

a. Not to rotate suspension pin of alternator
b. Not to damage the nylon bushes of alternator/ suspension bracket
c. Not to damage the suspension bracket/boss of alternator
d. All of the above

22. The insulation material recommended for alternator windings of 4.5 KW 110V shall be _____class. **[c]**

a. A
c. F
b. B
d. None

23. The voltage setting of Alt/RR unit is to be set in far with current and RPM for 4.5KW is **[a]**

a. Half rated capacity of the alt as load as 1500 RPM
b. ¼ rated capacity of the alt as load at 1000 RPM
c. Full rated capacity of alt as load at 2550 RPM
d. None of the above

24. While measuring insulation resistance of 110V alternator/rectifier cum regulator the rating of megger is to be used is **[b]**

a. 100V DC megger
c. Both a and b
b. 500V DC megger
d. None

25. The gap between two halves of axle pulley to be maintained is **[a]**

a. 3.0 +/-0.5 mm
b. 6mm +/- 0.5 mm
c. 4mm +/- 0.5 mm
d. None

26. Codal life of 4.5, 18, 22.75 & 25 KW alternator / RR unit **[a]**

a. 12 years
c. 15 years
b. 25 years
d. None

27. Codal life of 120 AH VRLA Battery **[b]**

a. 5 years
b. 4 years
c. 3 years
d. None

28. Codal life of 120 AH Flooded Battery **[b]**
a. 5 years
b. 4 years
c. 3 years
d. None

29. Codal life of Battery charger **[a]**
a. 12 years
b. 15 years
c. 25 years
d. None

30. Codal life of Coach wiring **[b]**
a. 12 years
b. 15 years
c. 20 years
d. None

31. Codal life of Carriage fans **[a]**
a. 10 years
b. 12 years
c. 15 years
d. None

32. The distance to be maintained while fixing axle pulley on wheel, from wheel hub to axle pulley outer wedge for 4.5 KW alternator is **[c]**

a. 225 mm
c. 145 mm
b. 240 mm
d. None

33. 'V' belt dropping/smoking/burning due to mechanical failure **[c]**

a. Brake block jamming
c. Both a and b
b. Guide cups of damper's have dropped
d. None

34. 'V' belt dropping/smoking/burning due to electrical failure **[d]**

a. Load on Alt is heavy
c. Loose/excessive tension
b. Wrong alignment
d. All of the above

35. The minimum insulation resistance to be maintained for 4.5KW alternator is **[c]**

a. 1 Mega ohm
c. 20 Mega ohm
b. 2 Mega ohm
d. None

36. The type of suspension bushes are to be provided TL/AC alternators/ suspension bracket as per RDSO specification no RDSO / PE/Ac/0006/99 (Rev.0) **[b]**

a. Cast nylon bushes
c. MS bushes
b. Nylon 66 bushes
d. All of the above

37. Residual magnetism lost in the alternator core the reason is **[c]**

a. Field polarity changed
c. Both a and b
b. Alternator is in idle condition for long time
d. None of the above

38. As per the Railway Board letter No. 2006/Elec(G)/138/3Pt. I unit Exchange spare recommended for alternators and Regulators for TL/AC depot **[b]**

a. 5%
c. 15%
b. 10%
d. None

39. ERRU stands for **[a]**

a. Electronic Rectifier cum Regulator Unit
b. Electromagnetic Rectifier cum Regulator unit
c. Electrostatic Rectifier cum Regulator Unit
d. None

40. IGBT stands for **[a]**
    a. Insulated Gate Bipolar Transistor
    b. Injection Gate Bipolar Transistor
    c. Indicator gate Bipolar Transistor
    d. None

41. UVC used in ERRU must be **[c]**
    a. Suitable to work with all capacities
    b. Suitable to work with all makes
    c. Both a and b
    d. None

42. The battery charging current limit with 4.5kW ERRU is to be set at **[a]**
    a. 24A +/-2A
    b. 12A +/- 2A
    c. 36A +/- 2A
    d. None

43. TL alternator 4.5 KW 130 V is_____ **[a]**
    a. 4 V belts drive machine
    b. 6 V belts drive machine
    c. 12 V belts drive machine
    d. None of the above

44. Non drive end bearing of 4.5 kw 120v 4.5kw TL alternator is___ **[a]**
    a) SKF 6309 b) SKF NU311 c) SKF 6200 d)None

45. Driving end bearing of 4.5 kw 120 V 4.5 kw TL alternator is_____ **[b]**
    a) SKF 6309 b) SKF NU311 c) SKF 6200 d)None

46. Recommended Cut in speed of 4.5 kw TL alternator is by RDSO with MA RR unit **[a]**
    a) 357 rpm b) 600 rpm c) 1100 rpm d)2500rpm

47. Minimum speed for full output of 4.5 kw 120V TL alternator, Recommended by RDSO is **[b]**
    a) 357 rpm b) 600 rpm c) 1100 rpm d)2500rpm

48. Field coils of 120VTL/AC coach alternator are connected in **[a]**
a) Series b) Parallel c) Star d)Delta

49. Three phase windings of 120V TL/AC coach alternator are connected in **[a]**
a) Star b) Delta c) Series d)Parallel

50. Field coils of TL coach alternators are located on **[a]**
a) Stator b) Rotor c) Both a and b d) None

51. Each field coil of TL/AC coach alternator embraces_____total number of there phase winding slots. **[a]**
a) Half of the
b) One fourth of the
c) Three fourth of the
d) None

52. Size of V belts used for driving 110V 4.5 kw TL alternators **[a]**
a) C122 b) C118 c) C124 d) None

53. Number of V belts used for driving 110 V 4.5 kw TL alternator is **[a]**
a) 4 b) 6 c) 12 d) None

54. Numbers of alternator pulleys are available on 4.5 kw TL Alternator. **[a]**
a) 1 b) 2 c) 3 d) None

55. Numbers of Alternators pulleys are available on BG AC coach Alternator. **[b]**
a) 1 b) 2 c) 3 d) None

56. Residual magnetism retains in _____ **[b]**
a) Rotor core b) Stator Core c) Rotor teeth d) None

57. Number of slots are available in stator for 3Phase ac winding in 4.5 KW 120V Alternator **[a]**
a) 36 b) 60 c) 18 d) None

58. 3 Phase AC voltages are first produced in ac winding in Alternator by **[a]**
a) Residual magnetism b) Permanent magnetism
c) Both a and b d) None

59. When the rotor of 4.5 kw 120V alternator is rotated by hand the voltage developed in the 3 phase winding will be **[a]**
a) 3.5 v b) 12v c) 24v d) None

60. DC output voltage of Alternator/Regulator of 110 V TL/AC coach is **[a]**
a) (110-140) DC b) (70-90) DC c) (90-120) DC d)None

61. Rated DC output current of 4.5kw 110v Alternator is **[a]**
a) 37.5A b) 19A c) 43A d)None

62. Rated DC output current of 3kw 110v Alternator is **[b]**
a) 37.5A b) 19A c) 43A d)None

63. Pitch circle diameter of Axle pulley of 110v TL system **[c]**
a) 200mm b) 140mm c) 572.6mm d)None

64. As per the latest SMI, the voltage setting of alternator 4.5kw 110v for Express/ mail trains with flooded batteries is _____ **[a]**
a) 128.5v DC b) 124v DC c) 122v DC d)120v DC

65. The purpose of TL Alternator used in Railways **[d]**
a) Charging the coach battery on train run
b) Working of lights and fans in the coach during train run
c) Sharing the load to other coaches in case of emergency
d) All the above

66. The purpose of Ac coach Alternator used in Railways **[d]**
a) Charging the coach battery on train run
b) Working of lights and fans in the coach during train run
c) Sharing the load to other coaches in case of emergency
d) All the above

67. The capacity of alternators are used for BG coach 110v Train Lighting system. **[b]**
a) 3kw b)4.5kw c)12kw d)None

68. The capacity of alternators are used for BG 110v roof mounted AC coach **[c]**
a) 3kw b) 18kw c)25kw d)None

69. The AC winding/ Main winding of TL/AC coach alternator has _____ phase winding **[c]**
a) Single b) Double c) Three d) None

70. The safety items of TL/AC alternator are **[a]**
a) Suspension hanger pin with bushes and Cottar Pin
b) Alternator Suspension arrangement
c) Alt pulley & nut
d) All the above

71. NU 311 bearing is **[a]**
a) Roller bearing
b) Ball bearing
c) Both a and b
d) None

72. The field resistance of 4.5kw 110v TL alternators has **[a]**
    a) 4.5+/-0.5 ohms
    b) 6.0+/-0.5 ohms
    c) 10+/-0.5 ohms
    d) None
73. MA type RR units are working on the principle **[a]**
    a) Saturation and de saturation of magnetic core
    b) Mutual induction
    c) BJT
    d) None
74. Generally the voltage setting of the alternator is to be set at_____ **[b]**
    At 1500rpm
    a) Full rated current
    b) Half rated current
    c) 2/3rd rated current
    d) None
75. Both directions of train run, the polarity of Dc output supply of TL/AC alternator **[b]**
    a) Changes b) Do not change c) Change at start d) None
76. The mating of pulley with shaft of TL/AC alternator shall be **[a]**
    a) 80% b) 70% c) 60% d)50%
77. The cleat of alternator is to be made of **[a]**
    a) Fibre glass in forced fire retardant DNC
    b) Bakelite
    c) Phenolicd
    d) None
78. Rotor shaft of KEL 110v 4.5kw alternator made up of **[a]**
    a) EN 24 b) EN 8 c)Both a and b d)None
79. Type of suspension bushes to be used while mounting alternators **[b]**
    as per latest RDSO instructions are
    a) Cast Nylon b)Nylon 66 c)MS d)None

80. The insulation resistance of alternator when measured with megger **[a]**
    the IR value should not be less than
    a) 20 mega ohms b)5 mega ohms c)both a and b d)None
81. In case of over voltage in 4.5kw 120v RR unit, the tripping voltage **[a]**
    of relay may be set at
    a) 145+/-2 b) 150+/-2 c) 135+/-2 d)None

82. To prevent breakage of shaft during service the following test should be Done as per RDSO SMI **[a]**
   a) Non destruction dye-penetrate test
   b) Shock pulse meter test
   c) Ultrasonic test
   d) None

83. The gap between two halves of axle pulley to be maintained is **[a]**
   a) 3.0mm+/- 0.5mm b)6mm +/- 0.5mm c)4mm +/-0.5mm d) None

84. Before lifting coach body, the following electrical items as to be removed, otherwise coach body will not separate from trolley **[d]**
   a) Belt tensioning mechanism
   b) V Belts
   c) Alternator cables
   d) All the above

85. The rating of filed fuse to be provided in 4.5kw 110v HMTD MA type RRU **[a]**
   a) 6A b)2A c)4A d)None

86. Codal life of 120 AH VRLA battery **[b]**
   a) 5 yrs b)4 yrs c)3 yrs d) None

87. Codal life of 120 AH Flooded battery **[b]**
   a) 5 yrs b)4 yrs c)3 yrs d) None

88. 127. Codal life ofBattery charger **[a]**
   a) 12 yrs b)15 yrs c)25 yrs d) None

89. Codal life of coach wiring **[b]**
   a) 12 yrs b)15 yrs c)20 yrs d) None

6. ERRU

01. Voltage regulation of alternator with ERRU for all capacities of alternator. **[c]**
a)+/-5% b)+/-3% c)+/-2% d) None

02. Voltage ripples of output supply with ERRU should be less than **[a]**
a)2% b)5% c)15% d)none

03. ISO pack power diode modular are used for converting **[a]**
a) AC to DC b) DC to AC c) both A&B d) none

04. The advantage of ISO pack power modules are **[d]**
a) Directly can mount on heat sink
b) two diode combined unit
c) Small in size
d) all of the above

05. The ERRU shall have the following protection **[d]**
a) Over voltage/surge protection b) DC output short circuit protection
c) Over charging current limit protection d) all of the above

06. UVC used in ERRU must be **[c]**
a) Suitable to work with all capacities b) suitable to work all makes
c) Both A&B d) none

07. The over voltage setting of OVP with ERRU should be set at **[a]**
a)140-145V b)125-130V c)135-140V d)none

08. The battery charging current limit with 4.5 KW ERRU is to be set at **[a]**
a) 24A +/-2A b)12A +/-2A c)36A +/-2A d) none

10. OVP provided with ERRU shall latch before output voltage reachs to **[c]**
a) 145V b) 150V c) 135V+/-2V d) none

11. Hall senses are used to sense **[c]**
a) Total alternator load current b) battery charging current c) both A&B d) none

12. OVP is provided in ERRU for the purpose of **[c]**
a) To arrest the over voltage
b) latch the output voltage 90V for working lights and fans
c) Both A&B
d) none

13. PWM stands for **[a]**
a) Pulse width modulation
b) phase width modulation
c) both A&B
d) none

14. EEPROM stands for **[a]**

a) Electrically erasable programmable read only memory
b) Electronically erasable programmable read only memory
c) Both A&B
d) none

15. SMPS stands for **[a]**

a) switch mode power supply b) single mode power supply
c) sweep mode power supply d) none

16. IGBT stands for **[c]**

a) Insulated gate bipolar transistor b) isolated gate bipolar transistor
c) Both A&B d) none

7. RAILWAY CARRIAGE FANS

01. Air delivery of fan can be measured by **[a]**

a) Anemometer b) ammeter c) lux meter d) none

02. When insulation resistance test is carried out on railway carriage fan it's insulation resistance should not be less than **[a]**

a) 20mega ohms b)10mega ohms c)2mega ohms d)none

03. The wattage of 110V DC 400mm sweep RC fan is **[a]**

a) 32w b)25w c)19W d)none

04. The wattage of 110V DC 300mm RC fan is **[b]**

a) 32w b)25w c)19W d)none

05. Voltage drop between battery and any of the farthest fan shall not exceed _____volts at battery voltage of 108v **[b]**

a) 5 b) 3 c) 1 d) none

06. Codal life of RC fan is **[a]**

a) 10 years b)12 years c) 4 years d) none

07. Input power of 110V BLDC 400mm sweep fan of CGL make **[a]**

a)24w b) 38w c)32w d)none

8. TRAIN LIGHTING COACH WIRING

01. Capacity of rotary switches provided in rotary junction box is **[a]**

a) 40A b)16A c)10A d)15A

02. Capacity of limit switch provided for alarm chain pulling indication light circuit **[a]**

a) 10A b)15A c)35A d)40A

03. Size of rewirable fuse recommended for individual fan in 110V TL system is **[a]**

a) 35 SWG R/W b) 29 SWG R/W c)20 SWG R/W d) 22 SWG R/W

04. Positive and negative cable in roof runs through on either side of coach to avoid **[c]**

a) earth leakage b) over load c) short circuits d) none

05. Essential lights in SG TL coaches other than First class consists of **[a]**

a) Lavatory lights, door way lights and Night lights and 50% of compartment lights

b) Lavatory lights

c) Lavatory and door lights

d) Lavatory, door lights and Night lights

06. The wattage of TL Fan **[a]**

a) 32W b)10W c)80W d)60W

07. The capacity of battery fuse for 110Volt SG TL coach is **[a]**

a) 40A HRC b) 16A HRC

c) 10 A HRC d)4 A HRC

08. FRP tray shall be provided at the bottom of the battery box to avoid **[a]**

a) Corrosion of the battery box from splitting of acid

b) Electrical insulation for battery and battery box

c) Vibration of batteries

d) all of the above

09. The minimum clearance between the top of the battery and battery box for maintenance of cells shall have **[b]**

a) 50mm b)150mm c)100mm d)none

10. The size of the Fan provided on SGBG coaches of 110V system **[a]**

a) 400mm sweep b)300 mm sweep c)225 mm sweep d)200 mm sweep

11. The total number of V belts provided to the drive TL alternator 4.5KW are **[a]**

a) 4 b)6 c)2 d)3

12. The train lighting wiring is **[b]**

a) two wire earthed system b) two wire unearthed system

c) one wire earthed system d)none of the above

13. The insulation resistance of 110V coach when measured with 500V Megger during healthy weather condition **[a]**

a) 2mega ohms b) 1 mega ohms c)3 mega ohms d)0.5 mega ohms

14. The insulation resistance of 110V coach when measured with 500V Megger during adverse weather condition **[b]**

a) 2mega ohms b) 1 mega ohms c)3 mega ohms d)none

15. Electrical fires on coach is mainly due to **[d]**

a) loose connections b)short circuits and earth faults

c) undersize cables d) all of the above

16. The earth leakage can be checked both positive and negative cables at a time by **[a]**

a) double test lamp method b) 500V megger

c) single test lamp d)none of the above

17. Double test lamps are connected in **[a]**

a)series b) parallel c) both a&b d)none

18. When double test lamp is connected to EFTB, red lead connected lamp glows and blue lead lamp does not glow then coach is **[c]**

a) healthy b)having positive earth c)having negative earth d) none

19. When double test lamp is connected to EFTB, red lead lamp does not glows and blue lead lamp glows then coach is **[b]**

a) healthy b)having positive earth c)having negative earth d) both B&C

20. The insulation resistance of coach is to be measured with **[a]**

a) megger b)ohm meter c)continuity meter d)none

21. The instrument used to measure the current without disturbing the circuit is **[a]**

a) tong tester b) tacho meter c) photo meter d)none

22. Voltmeter is to be connected to the circuit in **[a]**

a)parallel b)series c)series and parallel d)none

23. Ammeter is to be connected to the circuit in **[b]**

a)parallel b)series c)series and parallel d)none

24. While measuring the earth leakages by double test lamp, lamps should have **[a]**

a) same wattage b) different wattage c)any wattage d)none

25. While giving supply to adjacent coaches through EFT the supply polarities are to be maintained **[a]**

a) same polarity b)opposite polarity c)any polarity d)none

26. No generation of TL alternator is due to **[d]**

a) alternator Field/AC wire defective b) no residual magnetism

c) Rectifier /regulator box defective d)any of the above

27. Cables used for wiring in coaches should have **[a]**

a) minimum joints b)five joints c)maximum joints d)none

28. The level of illumination will be measured by **[c]**

a) photo meter b)lux meter c)both A&B d)none

29. The percentage of spare coaches should be available in TL maintenance depot on traffic account is **[b]**

a) 10 b) 5 c) 6 d) none

30. The percentage of spare coaches should be available in AC maintenance depot on traffic account is **[c]**

a) 12 b) 5 c) 6 d)none

9. ABBREVIATIONS OR EXPANDED FORM

1 . What is the abbreviation of BARC **(a)**
a. Bhabha Atomic Research center b. Bombay Atomic Research Center
C. Bhagya nagar Atomic Research Center d. None

2. What is the abbreviation form of COFMOW **(b)**
a. Central for Modernization office works b. Central for Modernization of workshop
C. Central for Modernization of other works d. None

3. What is the abbreviation form of CONCOR **(a)**
a. Container corporation b. Central Corporation
C. Cement corporation d. None

4. What is the abbreviation form of CORE **(c)**
a. Central organization for rural Engineering
b. Central Organization for roads Engineering
C. Central Organization for railway Electrification
d. None

5. What is the abbreviation form of CRIS **(b)**
a. Central for Rural information system b. Central For railway information system
C. Central for railway investment system d. None of the above

6. What is the abbreviation form of CAMTECH **(d)**
a. Central Advanced Management Technology
b. Central Advance Management of Tracks
c. Central Advanced Monitoring Technology
d. Centre For Advance Maintenance Technology

7. What is the abbreviation form of IRCON **(a)**
a. Indian Railway Construction company Limited
b. Indian Roads Construction company Limited
C. International Railway Construction company Limited
d. None

8. What is the abbreviation form of IRFC **(b)**
a. International Rural Finance Corporation
b. Indian Railway Finance Corporation
C. Indian Roads Finance Corporation
d. None

9. What is the abbreviation form of IRIEEN **(a)**
a. Indian Railway Institute of Electrical Engineering
b. Indian Railway Institute of Electronics Engineering
c. Indian Railway Institute of Economics and Engineering
d. None

10. What is the abbreviation form of IRWO **(d)**
a. Indian Rural Welfare Organization b. International Rural Welfare Organization
c. Indian Rural work Organization d. Indian Railway welfare organization

11. What is the abbreviation form of PNM **(c)**

a. Passenger Nominating Machinery b. Permanent National Machinery

c. Permanent Negotiating Machinery d. Permanent Navigating Machinery

12. What is the abbreviation form of RCT **(a)**

a. Railway Claims Tribunal b. Railway Charges Tribunal

c. Railway change Tribunal d. Railway Cleaning Tribunal

13. What is the abbreviation form of RDSO **(b)**

a. Railway Design and Standards Origination b. Research Design and Standards Organization

c. Railway Design and Standards Organization d. None of the Above

14. What is the abbreviation form of RITES **(d)**

a. Railway Institute of Technical Engineering services ltd.

b. Railway Institute of Technical Electrical services ltd.

c. Railway Indian Technical Electrical services ltd.

d. Rail India Technical and Economics services Ltd

15. What is the abbreviation form of SCADA **(a)**

a. Supervisory Control and Data Acquisition.

b. Supervisory Central and Distribution Acquisition

c. Supervisory Central Advanced Data Acquisition.

d. none of the Above

16. What is the abbreviation form of FRPCPY **(c)**

a. Fault rate Percentage per year b. Failure rate Practice per year

c. Failure rate Percentage per year. d Fault rate Practice per year

17. What is the abbreviation form of PATB **(b)**

a. Passenger and Terminal bracket b. Passenger alarm Terminal Board

c. Passenger aluminum terminal Board d. Permanent alarm terminal Board

18. What is abbreviation form of EIG **(c)**

a. Electrical Institute of Government b. Electrical Inspection to the Government

c. Electrical Inspection to the Government d. None of the above.

19. Who is EIG **(b)**

a. PCEN b. PCEE

c. PCME d. PCPO

20. What is abreviation form of DGS&D **(a)**

a. Director General of supply and disposal b. Director General of stores and Distribution

c. Director General of Stores and Disposal d. None of the above.

21. What is abrivation form of EMD **(c)**

a. Earnest Money Demand b. Earnest Monitoring and Dispatch

c. Earnest Money Deposit d. None of the above

22. What is abrivation of form of SD **(d)**

a. Supply and Dispatch b. Supply and Demand

c. Security Data d. Security Deposit

23. What is abrivation of PG **(a)**

a. Performance Guarantee b. Programmer Guarantee

c. Play and Ground d. Program of Goods

24. What is abbreviation of CRI **(c)**

a. Colour remaining Index b. Coach rendering Index

c. Colour rendering Index d. Colour resonance Index

25. What is abbreviation of SAF **(d)**

a.Supply Application Form b. Stores Application Form

c. Supply Advanced Form d. Stocking Application Form

10 LBH Non-AC

1. How much input Voltage of feeder contactor coil is in the LHB Non-AC coaches?
a. 110 V AC b. 110 V DC c. 415 V AC d. None of the above

2. What is the rating of feeder contactor coil circuit Transformer in LHB Non-AC coaches?
a. 100 VA b. 110 VA c. 150 VA d. None of the above

226. What is the rating of the main power transformer in LHB Non-AC chair car coaches?
a. 09 KVA b. 10 KVA c. 12 KVA d. 15 KVA

3. The no. of panels available in LHB Non-AC coach are
a. 2 b. 3 c. 4 d. None of the above

4. What is the rating of the main power transformer in LHB Non-AC coaches?
a. 09 KVA b. 10 KVA c. 12 KVA d. None of the above

5. How many fuses available in a Power transformer?
a. 3 Nos. b. 5 Nos. c. 7 Nos. d. 9 Nos.

6. What is the input voltage of the power transformer?
a. 230 V b. 415 V c. 750 V d. None of the above

7. What is the output voltage of the power transformer?
a. 190/110 V b. 415 V c. Both A & B d. None of the above

8. Power transformer is connected in
a. star-delta b. delta-delta c. star-star d. delta- star

9. What is the class of insulation of winding in the transformer?
a. H- class b. F-class c. E-class d. none of the above

10. The transformer fitted in the under slung with How much anti-vibration?
a. 2 b. 4 c. 6 d. none of the above

11. How much secondary winding available in the power transformer?
a. 1 b. 2 c. 3 d. 4

12. What is the rating of fuse provided for the main HT 750 Volts of Transformer input circuit in LHB Non-AC coach?
a. 16 Amp b. 25 Amp c. 30 Amp d. 40 Amp

13. What is the purpose of RCBO provided in LHB non-ac coaches?
a. Protection against electric shock b. Protection for equipment c. both a & b d. None of the above
14. What is the operating Voltage of Lights & fans in the LHB Non-AC coach?
a. 415 V AC b. 230 V AC c. 110 V AC d. 110 V DC

15. What are the meaning of an HV?
a. High voltage b. Heavy voltage c. Both A & B d. None of the above

16. Where HV panel is mounted in the coach?

a. Near the LV Panel b. Roof c. Under frame d. None of the above

17. What are the meaning of an LV?
a. Lower voltage b. Low voltage c. Both A & B d. None of the above

18. Where LV panel is mounted in the coach?
a. Near the HV Panel b. Onboard c. Under frame d. None of the above

19. What is the size of the fuse provided for the main circuit of lights and fans?
a. 06 Amps b. 10 Amps c. 16 Amps d. 20 Amps

20. Which type of light used for night lights in LHB Non-AC coach?
a. IC lamps b. CFL c. FL d. LED

21. How much total connected load in 3 Tier Sleeper LHB NonAC coaches?
a. 1104 W b. 1906 W c. 2206 W d. 3000 W

22. How much total connected load in GS (LS) LHB Non-AC coaches?
a. 1906 W b. 2124 W c. 2206 W d. 3000 W

23. How much total connected load in Chair Car LHB Non-AC coaches?
a. 1906 W b. 2124 W c. 2193 W d. 3000 W

24. How many fans available in LHB Non-AC coaches?
a. 27 b. 30 c. 33 d. 36

25. What is the rating of BLDC, carriage fans used in LHB Non-AC coaches?
a. 27 W b. 30 W c. 38 W d. 40 W

26. What is the size of the fan used in LHB Non-AC coaches?
a. 100 mm sweep b. 200 mm sweep c. 300 mm sweep d. 400 mm sweep

27. What is the suitable range of working voltage of the BLDC fan?
a. 80 -110 V DC b. 80 -120 V DC c. 90 -140 V DC d. 90 -140 V AC

28. How many mm wide color bands are there on the circumference of the fan body in a BLDC fan?
a. 10 mm b. 20 mm c. 30 mm d. 40 mm
29. Which color of the two bands is in BLDC fan?
a. Green & Yellow b. Green & Red c. Red & Yellow d. Blue & Yellow

30. How many Emergency lights (AEL) are provided in LHB Non-AC coach?
a. 2 b. 4 c. 6 d. 8

31. What is the charging Voltage of the Accident Emergency light?
a. 415 V AC b. 230 V AC c. 110 VAC d. 110 VDC

32. What is the type of cables used in LHB Non-AC coaches?
a. Elastomeric cable b. PILC c. XLPE d. PVC

33. Which color is adopted for the wiring of light positive cable in LHB Non-AC coaches?
a. RED b. YELLOW c. BLUE d. BLACK

34. Which color is adopted for the wiring of fan negative cable in LHB Non-AC coaches?

a. RED b. YELLOW c. BLUE d. BLACK

35. Which color is adopted for the wiring of fan positive cable in LHB Non-AC coaches?
a. RED b. BLUE c. BLACK d. YELLOW

36. Which color is adopted for the wiring of all negative except fan negative cable in LHB Non-AC coaches?
a. RED b. YELLOW c. BLUE d. BLACK

37. Which is the main feeder contactor for feeder 1?
a. K 01 b. K 02 c. Both A & B d. None of the above

38. Which is the main feeder contactor for feeder 2?
a. K 01 b. K 02 c. Both A & B d. None of the above

39. What is the purpose of the push-button provided in the LV panel?
a. To check Rotary switch b. To check Mobile charger c. To check Emergency light d. None of the above

40. How many types of voltages are used in an under-slung HV panel?
a. 750 V b. 415 V c. 190/110 V d. All the above

41. How many types of voltages are used in an onboard LV panel?
a. 190 V AC b. 110 V AC c. 110 V DC d. All the above

42. What is the size of cable used for R, Y, B phases in the feeder junction box?
a. 70 sq. mm b. 95 sq. mm c. 125 sq. mm d. 150 sq. Mm

43. What is the size of cable used for Neutral in a feeder junction box?
a. 70 sq. mm b. 95 sq. mm c. 125 sq. mm d. 150 sq. Mm

44. What is the size of cable used for Earth in the feeder junction box?
a. 70 sq. mm b. 95 sq. mm c. 125 sq. mm d. 150 sq. Mm

45. What is the size of the cable used for the control cable?
a. 1.5 sq. mm b. 2.5 sq. mm c. 10 sq. mm d. 25 sq. Mm

46. What is the size of cable used from Feeder to HV panel?
a. 10 sq. mm b. 16 sq. mm c. 25 sq. mm d. 35 sq. Mm

47. What is the size of cable used from HV panel to Power Transformer?
a. 10 sq. mm b. 25 sq. mm c. 35 sq. mm d. 70 sq. Mm

48. What is the Disconnecting and earthing device?
a. OFF load switch b. ON load switch c. Both A & B d. None of the

49. Which equipment is used to prevent return current flow through-axle bearing?
a. D & ED b. Transformer c. Wheel set earthing equipment d. None of the above

50. What is the rating of the glass fuse used in the mobile charging socket?
a. 200 mA b. 500 mA c. 600 mA d. None of the above

51. What is the operating voltage of Pantry equipment in an LHB Non-AC chair car?
a. 110 V DC b. 110 V AC c. 230 V AC d. 415 V AC

52. What is the meaning of WSP?
a. Pump b. Pantry c. AC Plant d. Anti Skid Device

53. What is the meaning of AVM?
a. Anti vibration mounting b. Auto vibration mounting c. Automatic voltages monitor d. None of the above

Answers:

LHB NON AC COACH
1. - (c) 2. - (a) 3. - (d) 4. - (a) 5. - (a) 6. - (d) 7. - (c) 8. - (c) 9. - (c) 10. - (a) 11. - (b) 12. - (b) 13. - (b)
14. - (a) 15. - (d) 16. - (a) 17. - (c) 18. - (b) 19. - (b) 20. - (c) 21. - (d) 22. - (c) 23. - (b) 24. - (c) 25. - (b) 26. - (c) 27. - (d) 28. - (c) 29. - (b) 30. - (a) 31. - (b) 32. - (d) 33. - (a) 34. - (b) 35. - (d) 36. - (a) 37. - (c) 38. - (a) 39. - (b) 40. - (c) 41. - (d) 42. - (d) 43. - (d) 44. - (b) 45. - (a) 46. - (b) 47. - (c) 48. - (b) 49. - (a) 50. - (c) 51. - (b) 52. - (c) 53. - (d)

II. NON TECHNICAL

1. ESTABLISHMENT

1. What is the main object of the payment and wages Act? (c)
   a) Wages should be paid in time b) No unauthorized deductions from Wages
   c) Both a and b d) None.
2. When payment and wages Act came in to operation w.e.f. in India? (c)
   a)21.1.1937 b)21.2.1937 c)21.3.1937 d)21.4.1937
3. What are the permissible deductions from wages? (d)
   a)Fine
   b) Deduction for absence from duty, towards damages or loss
   c) Deduction of provident fund, advance& Loans d) All the above
4. What is the abbreviation of HOER? (a)
   a)Hours of employment regulations b) Hours of employment rules
   c) Hours of Employment roster d) none
5. Classification of HOER? (d)
   a)Intensive b) Essentially intermittent c) Continues & Excluded d) All the above
6. What is the abbreviation of WCA? (b)
   a) Worker compensation act b) Workmen's compensation act
   c) Worker company act d) None
7. When factory act 1948 came in force? (d)
   a) w.e.f. 1.1.1949 b) w.e.f 1.2.1949 c) w.e.f. 1.3.1949 d) w.e.f. 1.4.1949
8. What is mean by "suspension"? (a)
   a) Suspension is an action where by railway servant is kept out of duty
   b) Suspension is an action where by railway servant is remove from duty
   c) Suspension is an action where by railway servant is dismissed from duty
   d) None
9. In respect of one disability special disability leave shall in no case exceed. (b)
   a. 12 months b. 24 months c. 28 months d. none of these
10. Railway servant working in administrative office is entitled for casual leave (b)
    a. 12 days b. 08 days c. 11 days d. none of these
11. The distances of transferred stations of Railway employee are 2025 KMs. He is entitled for joining time? (c)
    a. 12 days b. 10 days c. 15 days d. none of these
12. School; pass are granted according to (b)
    a. Calendar Year b. Academic Year c. financial Year d. none of these
13. The weekly duty hours of a clerk in the administrative office is (a)
    a. 42 Hours b. 45 Hours c.40 Hours d.48 Hours
14. A running staff after performing 9 hours duty is entitled to rest at Head Quarter (c)
    a. 12 Hours b. 14 Hours c.16 Hours d.10 Hours
15. The long on period in case of "continuous "staff is: (b)
    a. 08 Hours b. 12 Hours c.14 Hours d.10 Hours

16. Railway staff is eligible for TA/DA if he goes out of his head quarter (a)
a. beyond 8 KM b. beyond 6 KM c. beyond 10KM d. none of these
17. Railway servant shall be entitled to (b)
a. 15 days LAP in a Calendar Year b. 30 days LAP in a Calendar Year
c. 20 days LAP in a Calendar Year d. none of these
18. Maximum limit for accumulation of LHAP is (d)
a.240 days b. 180 days c. 300 days d. No limit for accumulation
19. Leave not due may granted to Railway Servant at a time (c)
a.60 days b.90 days c. 360 days d. none of these
20. All kind of leave in one spell shall not exceed (c)
a. 02 years b.04 years c.05 years d. none of these.
21. Maximum Hospital leave granted to Railway Servant in one spell (a)
a. 24 months b.28 months c.12 months d. None of these
22. 04 set of PTO are admissible to (a)
a. all groups b. Group A& B officers only
c. Group A, B & C only d. None of these
23. According to Rule -13 A , of Services Conduct Rule a Railway Servant desires to file a defamation suit in his private capacity, he is (a)
a. Required to obtain permission before filing suit b. No permission required before filing suit
c. both a&b d. none of these
24. The holder of Silver pass can travel in Ist AC (c)
a. Self only b. With his family up to 4 members. c. with wife d. None of these
25. According to Rule -13 A , of Services Conduct Rule a Railway Servant (c)
a. can not take dowry b. cannot accept dowry
c. Both A& B d. none of these
26. Member ship for clubs & Institute in Division is (a)
a. Optional b. Compulsory
c. On some division optional and on some Division Compulsory d. None of these
27. Half day LAP is granted to (c)
a. Group C&D employees b. All Railway employees
c. Artisan staff of Workshop/Production unit d. None of these.
28. In which case special pass is not allowed (d)
a. sports tournament b. Territorial Army c. Union meeting d. None of these
29. Condition regarding sale and purchase of immovable property mentioned in (c)
a. Rule-7 b. Rule-9 c. Rule-18 d. none of these
30. For blood donation, special casual leave can be sanction for (c)
a.02 days b.03 days c. 01 day d. None of these
31. Group “C” &”D” employees are entitled for three sets of pass on (c)
a. On completion of 01 year service b. On completion of 01 years’ service
c. On completion of 05 years service d. None of these

32. Not entitle for running allowance (c)
a. Driver b. Shunter c. travelling ticket examiner d. Guard
33. Casual leave can be combined with (a)
a. special casual leave b. LAP c. Hospital leave d. None of these
34. Female Railway servant entitled for maternity leave for (c)
a. 90 days b.120 days c.180 days d. None of these
35. Paternity leave can be sanctioned up to (c)
a. 12 days b.20 days c. 15 days. d. none of these
36. On Sports Quota recruitment is made in (c)
a. Group "B" b. Group "C"
c. Group "C" & "D" d. none of these
37. Recruitment in Group D category from open market is to be done by (c)
a. Divisional Office b. Railway Recruitment Board
c. RRC d. None of these.
37. Rule -3 of Service Conduct rule is related to (a)
a. General Conditions-devotion to duty integrity. b. Demonstration by Railway Servant
c. Employment of near relative; d. None of these.
38. According to Rule 5 of Conduct Rules Railway Servant (b)
a. Can be a member of Political Party b. Cannot be a member of Political Party
c. none of these d. a&b
39. According to Rule -6 Railway Servant (b)
a. Can Criticize Govt. in public interest. b. Cannot Criticize Govt. in public interest.
c. a & b d. none of these -

2. STORES/PROCUREMENT

1. For best Inventory performance results we must combine ABC analysis & VED analysis. Our first focus should be on **(A)**
   A. Vital & A items B. Vital & C items C. Desirable & A items D. Desirable & C items

2. Stores Directorate in Rly Board is under **(A)**
   A. Member (Mech) B. Member (Elect) C. Member (Staff) D. Financial Commissioner
3. Why is the ABC analysis important **(B)**
   A. for improving service level B. for improving financial performance
   C. to improve the profits D. none of the above.
4. For the stores declared surplus by a depot, any returned stores are **(C)**
   A. not to be accepted.
   B. to be sent to any other depot where they are required.
   C. to be accepted but credit is given only for scrap value.
   D. a high level committee is to be set up for taking a decision.
5. Indian Railway stores code is in how many Volumes ? **(A)**
   A. 2 B. 3 C. 4 D. 5
6. The pre-check of the purchase order by accounts department is necessary if the value is More than **(D)**
   A. Rs. 5,00,000/- B. Rs. 4,00,000/- C. Rs. 1,00,000/- D. above Rs. 7,00,000/-
7. Which one of the following system of codification is followed by Indian Railway for codification of store items? **(B)**
   A. Fully significant coding system B. Semi significant coding system
   C. Non-significant coding system D. Color codification coding system
8. In Indian Railways the case is to be dealt by tender committee, when it is a case of **(D)**
   A. Open tender B. Limited tender C. Bulletin tender D. High value tender
8. When the firms are selected and tender enquiry is sent to them, it is a case of **(B)**
   A. Open tender B. Limited tender C. Bulletin tender D. Global tender
9. In Indian Railways the case is to be dealt by tender committee when the purchase value is more than Rs. **(D)**
   A. 10 lakhs B. 20 lakhs C.25 lakhs D. above 50 lakhs
10. In Indian Railways 'A' category items represent what percentage of total consumption value? **(D)**
    A) 50 % B) 90% C) 65% D) 70%
11. PL No. of an item is 11360010. This item may be an item of **(D)**
    A) Stationery B) Steam Locomotive C) Electrical item D) Diesel Locomotive
12. EOQ is the Quantity at which – **(D**
    A) Inventory carrying cost is maximum
    B) Warehousing cost is minimum
    C) Inventory carrying cost + ordering cost is maximum
    D) Inventory carrying cost + ordering cost is minimum

13. Tenders are to be invited for purchasing 12000 nos. of Chokes approx. rate of which is Rs. 90/- each. In this case we will normally invite - **(A)**

A) Open tender B) Limited tender C) Single tender D) No tender

14. In a PL No. the subgroup to which the item belongs to is represented by – **(A)**

A) First two digits B) 3rd and 4th digits C) 5th and 6th digits D) 2nd and 3rd digits

15. In ABC analysis of items, "A" category items represent **(C)**

A) Low consumption value items B) Important items

C) High Annual consumption value items D) High rate items

16. Buffer stock limit depends on – **(A)**

A) ABC classification of the item B) VED classification of the item

C) Combination of (A) & (B) D) Stock and Non-stock classification of the items

17. Buffer stock is provided – **(A)**

A) To meet unforeseen requirement B) To supply items to other users

C) To make good shortfall due to theft, deterioration D) To have items out of stock

18. In a VED analysis "V" stands for – **(A)**

A) Vague items B) Very costly items C) Vital item D) Variety of items

19. Indication of value in the demand is necessary **(D)**

A) for posting in liability register / fund register B)for knowing the appropriate approving authority

C) for the payment to the supplier D) combination of (A) & (B)

20. Item not required for the purpose for which it was originally purchased is known as – **(C)**

A) Inactive item B) Scrap item C) Over stock item D) Emergent stock item

21. An item having regular turnover caused by constant demand will be known as – (A)

A) Ordinary Stock Item B) Emergency stock item C) Regular item D) Non- stock item

22. Inactive items are those stock items, stock of which **(C)**

A) is unserviceable B) more than 3 months old

C) has not been issued to any user for past 12 months D) is more than the requirement of next 24 months

23. Principal Head of Stores Department on a Zonal Railway is – **(A)**

A) Principle Chief Materials manager B) Chief Controller of Stores

C) Controller of Stores D) Chief Controller of Stores and Purchases

24. Processing of a tender case after the opening of tenders depends on – **(C)**

A) Estimated value of purchase B) Value of the case as per highest offer

C) Value of the case as per lowest offer D) None of the above

25. An offer received from the firm to whom no inquiry was sent is known as – **(C)**

A) Single offer; B) Delayed offer; C) Unsolicited offer; D) Unapproved offer

26. Only one offer received in respect to Limited/ Open tender is known as – **(C)**

A) Single tender; B) PAC offer; C) Single offer; D) Late offer

27. Proprietary Article certificate is to be issued for the item required to be purchased from - **(A)**

A) Single firm only B) RDSO approved firms only C) Approved firms only D) None of the above

28. Items not required by the user can be returned on **(A)**

A) Advice note for returned stores B) Requisition C) Minus issue note D) Indent

29. Ordinary scrap items are those items which are **(A)**

A) Of no use in the railway B) Retained for railway's use

C) To be sold to the staff D) To be sold by public auction

30. On a railway, the items have been classified as A, B, C and V, E, D. While designing stock Level limits for various items, we will provide to keep minimum safety stocks for – **(A)**

A) A-V Items B) A- D Items C) C-V Items D) C-D Items.

31. Materials not required are returned to the nominated stores depot as per stores code para number **(B)**

A) S - 1539 B) DS-8 C) NS-11 D) SS-11

32. Disposal of scrap may be done by **(A)**

(A) Auction (B) Sale by tender

(C) Sale to other Govt. department and undertaking (D) All above.

33. Custody stores are the stores – **(C)**

(A) Which are kept under the custody of indenter

(B) Custody stores are imprest stock items

(C) These are charged off stores but kept under the custody of stores depot awaiting future use.

(D) Custody stores are non-stock items which are surplus with the user

34. Standardization helps in **(D)**

(A) Easy maintenance of equipment by suitable replacement

(B) It is easy for the supplier to manufacture the item with suitable technology

(C) Scale of economy can be achieved

(D) All of them as above

35. PL No. of an item is 98-05-0400. This item may be an item of **(D)**

(A) Uniforms (B) Stationery (C) Steam Locomotive (D) Scrap

3.विभागीय परीक्षा ओं के लिए राजभाषा प्रश्न और उत्तर
Questions and Answers on Rajbhasha for Departmental Examinations

1. भारत संघ की राजभाषा क्या है? (ए)

   What is the Official Language of the Union of India ?

   उ: ए) देवनागरी लिप में हिंदी बी)ब्रज भाषा सी) संस्कृत डी) ओडिया

   Hindi/ in Devnagari Script.

2. संसद में संविधान का भाग XVII किस तारीख़ को पारित हुआ? (ए)

   On which date, Part XVII of the Constitution was passed in Parliament ?

   उ: ए)14.09.1949. बी) 14.09.1950 सी) 14.09.1963 डी) 14.09.1976

3. राजभाषा अधिनियम 1963 कब पारित हुआ?

   When was the Official Languages Act 1963 passed? (बी)

   उ: ए)10.05.1949 बी)10.05.1963 सी) 10.05.1952 डी) 10.05.1969

4. राजभाषा अधिनियम 1963 कब संशोधित हुआ?

   When was the Official Languages Act1963 amended? (ए)

   उ: ए)1967 बी)1963 सी)1964 डी)1976

5. राजभाषा नियमों के तहत वर्गीकृततीनों क्षेत्र कौनसे हैं ? (ए)

   What are all the three regions classified under Official Language Rules ?

   उ: ए)'क', 'ख'ग' बी) य, र, ल, सी) एक, दो, तीन डी) क और ख

   'A', 'B' and 'C' Regions.

6. हर साल ' हिंदी दिवस' कब मनाया जाता है? (ए)

   When is 'Hindi Day' celebrated every year ?

   उ: ए) सितंबर 14 बी) जनवरी 26 सी) सितंबर 24 डी) फरवरी 14

7. राजभाषा नियमों के अनुसार, अंडमान और निकोबार द्वीपसमूह किस क्षेत्र के अंतर्गत आता है? (ए)

   According to Official Language Rules, under which region Andaman & Nicobar Islands come?

   उ: ए) 'क' बी) ख सी) ग डी) य

   ए) 'A' Region.

8. क्षेत्र ख' के तहत वर्गीकृत केंद्र शासित प्रदेश कौनसे हैं? (ए)

   Which are the Union Territories classified under Region 'B' ?

   ए)केंद्र शासित प्रदेश चंडीगढ़, दादरा और नगर हवेली और दमन और दीव

   बी) अंडमान और निकोबार

सी) श्रीलंका

डी) जम्मुऔरकाश्मीर

ए)Union Territory of Chandigarh, Dadra & Nagar Haveli and Daman & Diu.

9. अरुणाचल प्रदेश की राजभाषा क्या है? (ए)

What is the Official Language of Arunachal Pradesh ?

उ: ए)अंग्रेजी बी) उर्दू सी) हिंदी डी) कश्मीरी

ए) English.

10 गैर-हिंदी भाषी लोगोंको दिए गए आश्वासनों को कानूनीरूपदेने के लिए पारित अधिनियम क्या है? (ए)

What is the Act passed to give legal form to the assurances given to Non-Hindi speaking people?

उ: ए)राजभाषा (संशोधित) अधिनियम–1967 बी) राजभाषा (संशोधित) अधिनियम–1963

सी) राजभाषा (संशोधित) अधिनियम–1957 डी) राजभाषा (संशोधित) अधिनियम–1976

ए)Official Languages Act (Amended) –1967.

11. राजभाषा अधिनियम की धारा 3(3) कबसे प्रभावी है? (ए)

From when did the Section 3(3) of Official Languages Act take effect?

उ: ए) 26 जनवरी 1965 बी) 26 फरवरी 1966 सी) 26 जनवरी 1972 डी) 26 जनवरी 1959

ए)26 January 1965.

12. राजभाषा अधिनियम 1963 की धारा (IV) किससे संबंधित है? (ए)

With which Section (IV) of Official Languages Act 1963 is concerned?

उ: ए)संसदीय राजभाषा सिमित के गठनसे संबंधित है बी) संसद के गठन से संबंधित है

सी)हिंदी को राजभाषा बनाने से संबंधित है डी) राजभाषा के कार्यान्वयन से संबंधित है

ए) It is concerned with the Constitution of Parliamentary Committee on Official Languages.

13. राजभाषा नीति की जानकारी देनेवाले अनुच्छेद 343-351, संविधान के किस भाग में है ? (ए)

In which part of the Constitution are the Articles 343-351, that gave information about Official Language available?

उ: ए) भाग–XVII(सात वे भाग में)

बी) भाग-VII(दूसरा भाग)

सी)भाग–XV(आठ वे भाग में)

डी) भाग–VII(पांच वे भाग में)

ए) Part XVII (In the Seventeenth Part).

14. राजभाषा अधिनियम 1963 की धारा 7 का संबंध किसके साथ है? (ए)

With which Section 7of Official Languages Act 1963 is concerned?

ए) इसका संबंध उच्च न्यायालयों के निर्णयों में हिंदी या अन्य राजभाषा के वैकल्पिक उपयोग से है

बी) इसका संबंध केंद्र सरकार के कार्यालयों में हिंदी या अन्य राजभाषा के वैकल्पिक उपयोग से है

सी) इसका संबंध राज्य सरकार के कार्यालयों में हिंदी या अन्य राजभाषा के वैकल्पिक उपयोग से है

डी) इसका संबंध केंद्र शासित राज्यों के कार्यालयों में हिंदी या अन्य राजभाषा के वैकल्पिक उपयोग से है

It is concerned with the optional use of Hindi or other Official Language in Judgements in High Courts.

15. राजभाषा अधिनियम 1963,की धारा एं6 व7 किस राज्य में लागू नहीं होती है? (ए)

In which state, Sections 6 & 7 of Official Languages Act 1963 do not apply?

ए) जम्मू व कश्मीर बी) तेलंगाना सी) दिल्ली डी) तमिलनाडु

Jammu and Kashmir.

16. किन-किन राज्यों में उर्दूको राजभाषा के रूप मेंघोषित कियागया है? (ए)

In which states, Urdu has been declared as Official Language?

ए)आंध्र प्रदेश व बिहार बी) तमिलनाडु व केरला सी) उत्तर प्रदेश व हरियाणा डी) जम्मू कश्मीर व दिल्ली

ए)Andhra Pradesh & Bihar.

17. आठवीं अनुसूची में सम्मिलित भाषाओंके नाम लिखें (ए)

please write the languages Available in the 8th schedule.

उ: ए)1. असिमया, 2. बंगला,3. गुजराती4. हिंदी 5. कन्नडा 6. कशमीरी 7. कोंकणी 8. मलयालम 9. मिणपुरी 10. मराठी11. नेपाली12. उडिया 13. पंजाबी 14. संस्कृत 15. सिंधी 16. तमिल 17. तेलुगु18 उर्दू 19. बोडो 20. संथाली 21. मैथली

1. Assamese2. Bengali 3. Gujarati 4. Hindi5. Kannada6. Kashmiri7. Konkani8. Malayalam 9. Manipuri10. Marathi11. Nepali12. Odia13. Punjabi14. Sanskrit 15. Sindhi 16. Tamil 17. Telugu Urdu 19. Bodo 20.Santhali 21. Mythili 22. Dogri.

18. 'कृपया 'बी' क्षेत्र के अंतर्गत आनेवाले राज्यों का उल्लेख करें (ए)

Please mention the states coming under 'B' Region.

ए)गुजरात, महाराष्ट्र, पंजाब, चंडीगढ़, दादरा और नगर हवेली तथा दमन और दीव

बी) आंध्र प्रदेश,कर्नाटक, तमिलनाडु सी)मध्यप्रदेश, केरला.ओडिसा डी)छत्तीसगड,उत्तर प्रदेश,राजस्थान

ए) Gujarat, Maharashtra, Punjab, Chandigarh, Dadra & Nagar Haveli and Daman & Diu.

19. वर्तमानमें संविधान की आठवीं अनुसूची में कितनी भाषाओंको सूची बद्ध कियागया है? (ए)

At present how many languages are enlisted in the Eighth Schedule of the Constitution ?

उ: ए) 22 बी)24 सी)25 डी)28

20. संविधान के भाग V- में राजभाषा-नीतिसंबंधित उपबंध के किस अनुच्छेद में है? (ए)

In which Article is the provision regarding OL Policy available in Part-V of the Constitution?

उ: ए)अनुच्छेद 120 बी)अनुच्छेद 240 सी)अनुच्छेद 100 डी)अनुच्छेद 90

A) Article 120 B) Article / 240 C) Article / 100 D) Article / 90

21. संविधान की आठवीं अनुसूची-संबंधी प्रावधान जिस में उपलब्ध है उस अनुच्छेद का नाम बताइए (ए)

Name the article in which the provision of the Eighth Schedule of the Constitution is available.

ए)अनुच्छेद 344(1) और 351 बी) अनुच्छेद 342(1) और 350 सी) अनुच्छेद 244(1) और 251

ए)Article/ 344 (1) and 351.

22. राजभाषा अधिनियम (1963) क्यों पारित कियागया? **(ए)**

Why was the OL Act 1963 passed?

उ: ए)1965 के बाद भी हिंदी के साथ अंग्रेजी का उपयोग करने के लिए

बी)1965 के बाद अंग्रेजी के उपयोग को बंद करने के लिए

सी)हिंदी के उपयोग को बंद करने के लिए

डी)हिंदी और अंग्रेजी के उपयोग को तुरंत बंद करने के लिए

To use English along with Hindi even after 1965.

23. राजभाषा नियम कब पारित हुआ? **(ए)**

When was the Official Language Rules passed?

उ: ए)1976. बी) 1963 सी) 1981 डी) 1952

24. संविधान के भाग XVII में कितने अनुच्छेद हैं? **(ए)**

How many Articles are there in Part XVII of the Constitution?

उ: ए) नौ बी) दस सी)आठ डी)सात

25. अनुच्छेद 344, के अनुपालन में राजभाषा आयोग का गठन कब कियागया था? **(ए)**

In compliance of Article 344, when was the Official Language Commission formed?

उ: ए) वर्ष 1955 में बी) वर्ष 1956 सी) वर्ष1963 डी) वर्ष 1976

26. राजभाषा आयोग का पहला अध्यक्ष कौन था ? **(ए)**

Who was the First Chairman of the Official Language Commission?

उ: ए)श्री बी.जी. खेर बी) श्री डॉ.अम्बेडकर सी) श्री जी.बी.पंत डी) श्रीमती सरोजनी नायुडु

27. राजभाषा आयोग कीसि फारिशों पर विचार करने के लिए गठित सिमिति के अध्यक्ष कौन थे ? **(सी)**

Who was the First Chairman of the Committee which was formed on the recommendation of the Official Language Commission?

उ: ए)श्री बी.जी. खेर बी) श्री डॉ.अम्बेडकर सी) श्री जी.बी.पंत डी) श्रीमती सरोजनी नायुडु

Shri. G.B.Pant.

28. संविधान के अनुसार सांविधिक नियम, विनियम और आदेशोंका अनुवाद कौन करता है?

As per the Constitution, who is translating the statutory rules, regulations and orders? **(ए)**

उ: ए)विधिमंत्रालय बी)गृह मंत्रालय सी) रक्षा मंत्रालय डी)मानवसंसाधनमंत्रालय

ए)Law Ministry.

29. 1965 तक भारत संघ के आधिकारिक उद्देश्य के लिए राजभाषा और सहायक राजभाषा के रूप में कौनर्स भाषा ओं का उपयोग कियागया था? **(ए)**

Which was the main language and co-official language used for the Official Purpose of the Union of India upto 1965?

ए)अंगेज़ी-मुख्य राजभाषा तथा हिंदी–सहायक राजभाषा

बी)हिंदी – मुख्य राजभाषा तथा अंग्रेजी सहायक राजभाषा

सी)अंगेज़ी-मुख्य राजभाषा तथा उर्दू–सहायक राजभाषा

डी)संस्कृत मुख्य राज भाषा तथा हिंदी–सहायक राजभाषा

ए)English was the main language and Hindi was the co-official language.

30. भाग-VI में कौन-सा अनुच्छेद है? **(ए)**

Which Article comes under Part-VI?

उ: ए)अनुच्छेद 210 बी) अनुच्छेद 370 सी) अनुच्छेद 375 डी) अनुच्छेद 209

31. वर्ष 1973 में गठित प्रथम रेलवे हिंदी सलाहकर समिति की अध्यक्षता किसने की? **(ए)**

Who chaired the First Railway Hindi Salahkaar Samiti constituted in 1973?

उ: ए)श्री ललितनारायण मिश्रा बी) श्री राजेद्र कुमार सी)श्री आर.के. नारायण डी)श्री अब्दुल कलाम

ए) Shri. Lalit Narayan Mishra.

32. वर्ष 1976 में गिठतसंसदीय राजभाषा सिमित के अध्यक्ष कौन थे? **(ए)**

Who was the Chairman of the Parliamentary Committee on Official Language constituted in the yea 1976?

ए) तत्कालीन गृह मंत्री श्री ओममेहता बी) श्रीललितनारायणमिश्रा

सी) श्री राजेद्र कुमार डी) श्री आर.के. नारायण

ए)The then Home Minister Shri. Om Mehta.

33. संसदीय राजभाषा सिमित की कौनसी समितिमसौदा तैयार करती है? **(ए)**

Which Committee of the Committee of Parliament on Official Language prepares the draft?

ए)संसदीय राजभाषा सिमितकी आलेख एवं साक्ष्य उपसमिति

बी)संसदीय राजभाषा सिमित

सी)मसौदा समिति

डी) नीति समिति

ए)Drafting & Evidence Sub-Committee of the Committee of Parliament on Official Language.

34. के आदेश के अनुपालन में रेलवे बोर्ड द्वारा हिंदी सहायक का पद किस वर्ष बनायागया था?

In which year the post of Hindi Assistant was created in Railway Board in compliance of President's Order? **(ए)**

ए)वर्ष1952 में रेलवे बोर्ड की सामान्य शाखा द्वारा

बी) वर्ष 1965 में

सी) वर्ष 1976

डी) वर्ष 1956

ए) General Branch of Railway Board in the year 1952.

35. किस वर्ष में रेल बजटका हिंदी अनुवाद तैयार कियागया था और रेलमंत्री कौन थे? **(ए)**

In which year, the Hindi Translation of Railway Budget was prepared and who was the Railway Minister?

ए) वर्ष 1956,में स्वर्गीय श्री लालबहादुर शास्त्री

बी) वर्ष 1956,में स्वर्गीय श्री अब्दुल कलाम अज़ाद

सी) वर्ष 1956, श्रीमती सरोजिनी नायुडु

डी) वर्ष 1956, ज्ञानी ज़ैलसिह

ए) In the year 1956, Late Shri. Lal Bahadur Shastri.

36. रेलवे बोड में हिंदी (संसद) अनुभाग का गठन कब हुआ था? **(ए)**

In which year, Hindi (Parliament) Section was established in Railway Board?

उ: ए)वर्ष 1960 बी) वर्ष 1956 सी) वर्ष 1976 डी) वर्ष 1977

37. राजभाषा संबंधी संसद की समिति की कौन-सी उप-समिति रेलवे मंत्रालय का निरीक्षण करती है? **(ए)**

Which Sub-Committee of the Committee of Parliament on Official Language inspects Railway Ministry?

उ:**ए) दूसरी उप समिति** बी) पहली उप समिति सी) तीसरी उपसमिति डी) चौथी उप समिति

38. रेलवे बोर्ड द्वारा हिंदी में कामकरने के लिए कौनसी योजना लागू कीगई है?

What is the scheme implemented by Railway Board for doing work in Hindi ? **(ए)**

उ: ए)राजभाषा व्यक्तिगत नकद पुरस्कार

बी) राजीव गांधी पुरस्कार

सी) राजभाषा शील्ड

डी) गृहमंत्रालय व्यक्तिगत पदक

(ए) Rajbhasha Individual Cash Award Scheme.

39. राजभाषा विभाग के राभाकास से क्या मतलब है? **(ए)**

What is the expansion for OLIC used by Dept. of Official Language

ए)राजभाषा कार्यान्वयन समिति बी)राजभाषा संसदीय समिति

सी) राजभाषा गृह मंत्रालय समिति डी) राजभाषा नियम समिति

ए)Official Language Implementation Committee.

40. केंद्रीय सरकार के कर्मचारियों के लिए कितने हिंदी पाठ्यक्रम निर्धारितहैं

How many Hindi courses are prescribed for Central Govt. employees? (ए)

उ: ए)तीन बी) चार सी) पांच डी) छ

ए)Three.

41. केंद्रीय सरकार के कर्मचारियों के लिए निर्धारित प्रारंभिक हिंदी पाठ्यक्रम कौनसा है? **(ए)**

Which is the elementary Hindi course prescribed for Central Govt. employees?

ए)प्रबोध बी) प्रवीण सी) पारंगत डी) प्राथमिक **ए)Prabodh.**

42. केंद्र हिंदी समिति के अध्यक्ष कौन है? **(ए)**

Who is the Chairman of Central Hindi Committee?

ए)प्रधान मंत्री बी) मुख्य मंत्री सी) शिक्षा मंत्री डी)राज्य मंत्री

ए)Prime Minister.

43. किसी विशेष मंत्रालय / विभाग में हिंदी के प्रचारप्रसारमें हुई प्रगति की समीक्षा कौनसी समिति करती है **(ए)**

Which Committee reviews the progress made in the propagation of Hindi in particular Ministry/Department?

ए) हिंदी सलाह कार समिति बी) हिंदी नियम समिति

सी) गृह मंत्रालाय समिति (डी) राजभाषा समिति

ए) Hindi Salahkar Samiti.

44. वर्तमान संसदीय राजभाषा समिति का गठन कब हुआ था?

When was the present Parliamentary Committee on Official Language constituted? **(ए)**

उ: ए)जनवरी 1976 बी)जनवरी1956 सी)जनवरी1977 डी)जनवरी1982

ए) January 1976.

45. राजभाषा की संसदीय सिमित के कितने सदस्य हैं? **(ए)**

How many members are there in the Parliamentary Committee on Official Language?

उ: ए)30 बी) 40 सी) 50 डी)70

46. संसदीय राजभाषा सिमित में लोकसभा के कितने सदस्य हैं? **(ए)**

How many Lok Sabha members are there in the Committee of Parliament on Official Language?

उ: ए)20 बी)31 सी)42 डी) 65.

47. फिलहाल राजभाषा की संसदीय समिति की कितनी उप- समितियां है? **(ए)**

At present, how many Sub-Committees are there in the Parliamentary Committee on Official Language ?

उ: ए)3 उप-समितियां बी) 2 उप समितियां सी) केवल 01 उप समिति डी)उक्त कोई नहीं

ए)3 Sub-Committees.

48. संसदीय राजभाषा समिति का मुख्य कर्तव्य क्या है? **(ए)**

What is the main duty of the Committee of Parliament on Official Language?

ए)हिंदी के प्रगामी उपयोग की समीक्षा करना बी) हिंदी के उपयोग को केवल क्रेंद्र में लागू करना

(सी) हिंदी के उपयोग को कम करना डी) हिंदी के प्रगामी उपयोग का प्रचार करना

ए)To review the progressive use of Hindi.

49. प्रमुख शहरों में गठित टाउन राजभाषा कार्यान्वयन समिति के अध्यक्ष कौन हैं? **(ए)**

Who is the Chairman of the Town Official Language Implementation Committee constituted in major cities ?

ए) शहर के केंद्र सरकार के वरिष्ठ अधिकारी (बी)शहर के राज्य सरकार के वरिष्ठ अधिकारी

(सी) शहरके स्थानिक एमएलए (डी) शहरके स्थानिक एमपी

(ए)Senior most Central Government Officer of the city.

50. नगर राजभाषा कार्यान्वयन समिति की बैठक की आवधिकता क्या है? **(ए)**

What is the periodicity of the meeting of Town Official Language Implementation Committee?

ए) 3 महीने में एकबार बी) 2 महीने में एकबार

सी) 01 महीने में एकबार डी) 6 महीने में एकबार

ए)Once/ in 3 months.

51. राजभाषा का वार्षिक कार्यक्रम को कौन तैयार करता है? **(ए)**

Who prepares the Annual Programme on Official Language?

ए) गृह मंत्रालय बी) रेल मंत्रालय सी)संसदीय समिति डी)नगर राजभाषा समिति

ए)Ministry of Home Affairs.

52. केंद्र सरकार के कर्मचारियों के लिए निर्धारित हिंदी पाठ्यक्रम क्या है? **(ए)**

What are the Hindi courses prescribed for Central Govt. Employees?

उ. ए)प्रबोध, प्रवीण और प्राज्ञा /Prabodh, Praveen & Pragya.

53. केंद्रीय सरकार के लिपि कसंवर्ग कर्मचारियों के लिए निर्धारित अंतिम हिंदी पाठ्यक्रम कौन सा है?**(ए)**

Which is the final Hindi course prescribed for clerical cadre employees of Central Govt.?

ए) प्राज्ञा **(Pragna**) बी) पारंगत सी) प्रबोध डी) विशारद

54. एक केंद्रीय सरकार के कर्मचारी के लिए हिंदी पाठ्यक्रमों में प्रशिक्षित होने के लिए उपलब्ध प्रशिक्षण सुविधाएं क्या है? **(ए)**

What are the training facilities available to a Central Govt. employee to get trained in the Hindi courses ?

ए)नियमित, गहन, पत्राचार और निजीपाठयक्रम बी) गहन पाठ्यक्रम सी) पत्राचार डी) नियमित

ए)Regular, Intensive, Correspondence and Private.

55. एक वर्ष में कितनी बार नियमित हिंदी परीक्षा आयोजित की जाती है? **(ए)**

How many times are the Regular Hindi examination conducted in a year ?

ए)दोबार बी)तीन बार सी)चार बार डी) एक बार

ए) 2 Times.

56. नियमित हिंदी परीक्षाएं किन महीनोंमें आयोजित की जाती हैं? (ए)

In which months, Regular Hindi examinations are conducted ?

ए)मईवनवंबर बी)जून व जुलाई सी) अगस्त व सितंबर डी)दिसंबर-अप्रैल

ए) May & November.

57. हिंदी पाठ्यक्रमों में प्रशिक्षित होने के लिए कौन पात्र हैं? **(ए)**

Who are eligible to be trained in the Hindi courses ?

ए)केंद्र सरकार के तृतीय श्रेणी और उससे ऊपर के कर्मचारी

बी) केंद्र सरकार के द्वितीय श्रेणी और उससे ऊपर के कर्मचारी

सी) प्रथम श्रेणी के कर्मचारी

डी) कोई नहीं

ए) All the Central Govt. employees in Class III and above.

58. श्रेणी 'क' केतहत कौनसे कर्मचारी वर्गीकृत हैं ? **(ए)**

Who are all the employees classified under Category 'A' ?

ए)वे कर्मचारी जिनकी मात् भाषा हिंदी या हिंदुस्तानीया उनकी बोली है

बी) जिनकी मातृ भाषा बांग्ला है

सी) जिनकी मातृ भाषा गुजराती है

डी) जिनकी मातृ भाषा तमिल है

ए) Those employees whose mother tongue is Hindi or Hindustani or its dialect.

59. 'कौनसेकर्मचारी'ख' श्रेणीकेतहतवर्गीकृतहैं? **(ए)**

Who are all the employees classified under Category 'B' ?

ए)वे कर्मचारी जिनकी मातृ भाषा उर्दू, पंजाबी, कश्मीरी, पुश्तो, सिंधी या अन्यसंबद्ध भाषाएँ हैं

बी) वे कर्मचारी जिनकी मातृ भाषा हिंदी या हिंदुस्तानीया उनकी बोली है

सी) जिनकी मातृ भाषा गुजराती है

डी) कोई नहीं

ए)Those employees whose mother tongue is Urdu, Punjabi, Kashmiri, Pushto, Sindhi or other allied languages.

60. 'कौनसे कर्मचारी 'ग' श्रेणी में आते हैं? **(ए)**

Who are all the employees classified under Category 'C' ?

ए) जिनकी मातृभाषा मराठी, गुजराती, बंगाली, उडिया या असमिया है

बी)जिनकी मातृभाषा तेलुगु है

सी) जिनकी मातृभाषा कन्नड है

डी) उक्त कोई नहीं

ए) Those employees whose mother tongue is Marathi, Gujarati, Bengali, Oriya or Assamese.

61. 'कौनसे कर्मचारी 'घ'श्रेणी में आते हैं? **(ए)**

Who are all the employees classified under Category 'D'?

ए) वे कर्मचारी जो दक्षिण भारतीय भाषाया अंग्रेजी बोलते हैं

बी) जो भारतीय भाषा बोलते हैं

सी) वे कर्मचारी जो हिंदी बोलते हैं

डी) उक्त कोई नही

ए) **Those employees who speak a South Indian Language or English.**

62. श्रेणी 'सी' के कर्मचारी को किस पाठ्यक्रम से प्रशिक्षित होना आवश्यक है? **(ए)**

From which course a Category 'C' employee is required to be trained?

ए) प्रवीण बी) पारंगत सी) प्रबोध डी) प्रज्ञा

ए)Praveen.

63. श्रेणी 'घ' के कर्मचारी को किस पाठ्यक्रम से प्रशिक्षित होना आवश्यक है? **(सी)**

From which course a Category 'D' employee is required to be trained ?

ए) प्रवीण बी) पारंगत सी) प्रबोध डी) प्रज्ञा

सी) Prabodh.

64. प्रज्ञा को पास करने के लिए एक मुश्त पुरस्कार क्याहै? **(ए)**

What is the lumpsum award for passing Pragya ?

ए) रु 2400/- बी) रु 2800/- सी)रु 3200/- डी)रु 4600/--

65. सामूहिक नकद पुरस्कार योजना के तहत प्रथम पुरस्कार के लिए नकद पुरस्कार राशि क्या है? **(ए)**

What is the Cash Award amount for the first prize under Collective Cash award Scheme?

ए) रु 1500/- बी) 2000 रुपए सी)1000 रुपए डी) कोई नहीं

सामूहिक नकद पुरस्कार योजना के तहत द्वितीय पुरस्कार के लिए नकद पुरस्कार राशि कितनी है? **(ए)**

What is the Cash Award amount for the second prize under Collective Cash award Scheme?

ए) रु.1200/- बी) रु.1500 सी)1000 रु/- डी)1600रु/-

66. सामूहिक नकद पुरस्कार योजना के तहत तीसरे पुरस्कार के लिए नकद पुरस्कार राशि कितनी है? **(ए)**

What is the Cash Award amount for the third prize under Collective Cash award Scheme ?

ए)800 रु बी)1000/-रु सी)1200/-रु डी) कोई नहीं

67. एक इकाई में 10,000 से अधिक शब्द लिखने के लिए एक वर्ष में कितने प्रथम पुरस्कार दिए जाते हैं? **(ए)**

How many first prizes are given in a year for writing more than 10,000 words in one unit?

ए) दो/Two बी) चार सी) पांच डी) कोई नहीं

68. एक इकाई में 10,000 से अधिक शब्द लिखने के लिए एक वर्ष में कितने द्वितीय पुरस्कार दिए जाते हैं? **(ए)**

How many second prizes are given in a year for writing more than 10,000 words in one unit?

ए)तीन/Three बी) चार सी)पांच डी)कोई नहीं

69. एक इकाई में 10,000 से अधिक शब्द लिखने के लिए एक वर्ष में कितने तृतीय पुरस्कार दिए जाते हैं? **(ए)**

How many third prizes are given in a year for writing more than 10,000 words in one unit?

ए)पांच/Five बी) चार सी)पांच डी)कोई नहीं

70. किस क्रममें नाम, पदनाम और साइन बोर्ड प्रदर्शित किएजाने हैं? **(डी)**

In which order Name, Designation and Sign Boards are to be exhibited?

ए)प्रादेशिक भाषा बी)हिंदी सी)अंग्रेजी डी) उक्त ए,बी,सी क्रम में

71. आम जनता द्वारा प्रयुक्त किए जाने वाले फार्मकिस भाषा में तैय्यार किया जाना है **(ए)**

ए)त्रिभाषीरूप (1 प्रदेशिक 2.हिंदी 3.अंग्रेजी (बी) केवल हिंदी सी) अंग्रेजी डी) प्रदेशिक

ए)Trilingual form (1.Regional Language2.Hindi 3.English).

72. रबर स्टैम्प किस क्रम में तैयार किए जाने हैं? **(ए)**

In which order Rubber Stamps are to be prepared?

ए)हिंदी-अंग्रेजी द्विभाषी-एक पंक्ति हिंदी और एक पंक्ति अंग्रेजी

बी) दोनो पंक्तियां अंग्रेजी में

सी) दोनो पंक्तियां हिंदी में

डी) कोई नहीं

ए)Hindi-English Bilingual from-one line Hindi and one line English.

73. निजी अध्ययन द्वारा प्रबोध, प्रवीण और प्रज्ञाको उत्तीर्ण करने के लिए पुरस्कार की राशि कितनी है?**(ए)**

Amount of lump sum award for passing Prabodh, Praveen and Pragya by private study.

ए) प्रबोध/Prabodh रु1600/- प्रवीण/Praveen रु1500/- प्राज्ञा/Pragya रु 1200/- प्रत्येक के

बी) प्रबोध/Prabodh रु1200/- प्रवीण/Praveen रु1300/- प्राज्ञा/Pragya रु1100/- प्रत्येक के लिए

सी) प्रबोध/Prabodh रु800/- प्रवीण/Praveen रु850/- प्राज्ञा/Pragya रु600/- प्रत्येक के For each.

74. निजी अध्ययन द्वारा हिंदी टंकण परीक्षा उत्तीर्ण करने के लिए प्राप्त होनेवाली एक मुश्त पुरस्कार राशि क्या है? **(ए)**

What is the lump sum award for passing Hindi Typewriting Examination by private study?

ए)रु 1600/- बी) रु 1400/- सी)1300/- डी) रु 1100/-

75. आठवीं अनुसूची में शामिल विदेशी भाषा क्या है?

What is the Foreign Language included in the Eight Schedule? **(ए)**

ए)नेपाली बी) बंगला सी) भोजपुरी डी) तुलु

ए)Nepali.

76. कौनसा मंत्रालय/ कार्यालय केंद्रीय सरकार के कर्मचारियों के लिए परीक्षा का आयोजन करता है? **(ए)**

Which Ministry /Office is conducting the exams. for the Central Govt. employees ?

ए)गृह मंत्रालय के अधीन हिंदी शिक्षण योजना

बी)रेल मंत्रालय के अधीन हिंदी शिक्षण योजना

सी) शिक्षा मंत्रालय के अधीन हिंदी शिक्षण योजना डी)कोई नहीं

ए)/Hindi Teaching Scheme under Home Ministry.

77. एक मुश्त पुरस्कार के लिए कौन पात्र है/who is eligible for lump sum award? **(ए)**

ए)वे कर्मचारी जो निजी प्रयासों से हिंदी की परीक्षा पास करते हैं

बी)वे कर्मचारी जो विभागीय प्रयासों से हिंदी की परीक्षा पास करते हैं

सी)केंद्र सरकार के सभी कर्मचारी

डी) हिंदी परीक्षा पास करने वाले केंद्र सरकार के सभी कर्मचारी

(ए)Those employees who pass the Hindi exams by private efforts.

78. स्टेशन की घोषणाएँ किस क्रम में की जाती हैं? **(ए)**

In which order are the Station announcements made ?

ए) त्रिभाषी (क्षेत्रीय, हिंदी और अंग्रेजी) बी) द्विभाषी(हिंदी और अंग्रेजी)

सी) केवल हिंदी डी) किसी भी भाषा में

ए)Trilingual (Regional, Hindi & English)

79. रूफ बोर्ड को किस अनुपातमें प्रदर्शित किया जाना है? **(ए)**

In which proportion the Roof Board has to be displayed ?

ए)समान अनुपात में-त्रिभाषा (क्षेत्रीय, हिंदी और अंग्रेजी) बी)दो समान भागों में

सी)किसी भी अनुपात में डी) केवल क्षेत्रीय भाषा में

ए) In equal proportion-Trilingual (Regional, Hindi & English).

80. ट्रेन का पैनल बोर्ड किस प्रकार प्रदर्शित किया जाना है? **(ए)**

How the Panel Board of a train has to be displayed?

ए)त्रिभाषी (क्षेत्रीय, हिंदीऔरअंग्रेजी) में बी)द्विभाषी((क्षेत्रीय, हिंदी) में

सी) द्विभाषी((हिंदी और अंग्रेजी में) डी)किसी भी भाषा में

ए)InTrilingual (Regional, Hindi & English).

81. व्यक्तिक वेतन के लिए कौन पात्र हैं? **(ए)**

Who all are eligible for Personal Pay?

ए)केंद्र सरकार के एचटीएस द्वारा आयोजित प्रज्ञा परीक्षाया निर्धारित परीक्षा उत्तीर्ण करन पर, केंद्र सरकार द्वारा कुछ श्रेणियों के लिए निर्दिष्ट % अंकोंको प्राप्त करने पर

बी) प्रवीण परीक्षा पास करने पर

सी) पारंगत परीक्षा पास करने पर

डी) कोई नहीं

ए) Passing Pragya Examination organized by the HTS of the Central Government or on passing the prescribed exam. Duly securing the specified % of marks for certain categories by the Central Government.

82. केंद्र सरकार के अधिकारी/ कर्मचारीयों को हिंदी प्रशिक्षण क्यों दियाजाता है? **(ए)**

Why training in Hindi is imparted to Central Government Officers/Employees?

ए) ताकिवे हिंदी में अपना दैनं दिन काम करें

बी) ताकि उन के वेतन में वृद्धि हो

सी) ताकि पदोन्नति मिले

डी) कोई नहीं

83. हिंदी वार्तालाप पाठ्यक्रम की अवधि क्या है? / **(ए)**

What is the duration for Hindi conversation course?

ए) 30 घंटे बी) 20 घंटे सी) 40 घंटे डी) कोई नहीं

ए)30 Hrs.

84. हिंदी कार्यशाला में प्रशिक्षण लेने के लिए कौन पात्र है? **(ए)**

Who are eligible to undergo training in Hindi Workshop

ए)सभीग्रूप-III और राजपत्रित कर्मचारी जिन्हें हिंदी का कार्य साधक ज्ञान/प्रवीणता प्राप्त है.

बी) सभी केंद्र सरकार के कर्मचारी

सी) केवल ग्रूप- सी वर्ग के कर्मचारी

डी) केवल अधिकारी

85. एक आशुलिपिक, जिसकी मातृ भाषा हिंदी नहीं है, को हिंदी आशुलिपिक परीक्षा उत्तीर्ण करने पर व्यक्ति क वेतन कितना दिया जाता है? **(ए)**

What is the Personal Pay given for passing Hindi Stenography, to a stenographer? Whose mother tongue is not Hindi ?

ए)12 महीने की अवधि के लिए 2 वेतन वृद्धियों के बराबर व्यक्ति गत वेतन

बी) 1200/रु प्रति माह

सी) दो वर्षों की अवधी के लिए 01 वेतन वृद्धि के बराबर

डी) कोई नहीं

ए)Personal Pay equivalent to 2 increment for a period of 12 months.

86. हिंदी टाइपिंग / स्टेनो द्वारा किया जानेवाले हिंदी टाइपिंग के कार्य की मात्रा हिंदी प्रोत्साहन भत्ता के लिए पात्र बनने के लिए क्या होनी चाहिए ? **(ए)**

What is the quantum of Hindi Typing work to be done by typist/Steno to become eligible for Hindi incentive allowance?

ए)हिंदी में प्रतिदिन 5 नोट या तिमाही में 300 नोट

बी) हिंदी में प्रतिदिन 01नोट या तिमाही में100नोट

सी) हिंदी में प्रतिदिन 03 नोट या तिमाही में 200 नोट डी) कोई नहीं

ए)5 Notes in Hindi in a day or 300 notes in Hindi in a quarter.

87. 90% या उस से अधिक और 95% से कम अंक सिहत हिंदी टंकण पास करने पर मिलनेवाला नकद पुरस्कार क्याहै?

What is the amount of Cash Award for passing Hindi Typing with 90% or more but less than 95% marks ? **(ए)**

ए) रु 400/- बी) 600 रु/- सी) 700/- रु डी) कोई नहीं

91. हिंदी आशुलिपि में 95% से अधिक अंक प्राप्त करने पर कितना नकद पुरस्कार मिलेगा

What is the amount for passing Hindi Stenography with 95% or more marks? **(ए)**

ए) रु1200/- बी) 1500 रु/- सी) 1800/- रु डी) उक्त कोई नहीं

92. अंश का लिक हिंदी पुस्तक पालको दिया जानेवाला मानदेय क्या है? **(ए)**

What is the honorarium amount given to Part-time Hindi Librarian?

ए) रु 500/- प्रति माह बी) 1000/- रु प्रति माह सी) 200/- रु प्रतिमाह डी) कोई नहीं

93. हिंदी आशु लिपि परीक्षा पास करने पर मिलनेवाला एक मुश्त पुरस्कार कितना है? **(ए)**

What is the lump sum award given for passing Hindi Stenography Examination?

ए) हिंदी आशुलिपि रु 1500/- बी) हिंदी आशुलिपि रु 1100/- सी) हिंदी आशुलिपि रु 2000/- डी) कोई नहीं

ए) Hindi Stenography Rs. 1500/-

THE END