

MCS RJY Question Bank for JE Exam 2019

1	Total time required to get complete notches from shunt to full power				Ans. B
A	05-15sec	B	09-12 sec	C	15-20sec
D	12-20sec				
2	Notches will not come if _____ is not turned ON				Ans. C
A	OL	B	CR	C	BIV
D	HL Switch				
3	If traction motor No. 4 is grounded, which of the following Relay will act				Ans. C
A	OL 1&2	B	OL 3&4	C	EFRP
D	EFRA-II				
4	If any one of the main rectifier fuse is blown				Ans. C
A	SR will not pick up	B	ABB will trip	C	Only indication will come
D	TELE				
5	Auxiliary Compressor is a				Ans. A
A	DC Motor	B	Single phase AC motor	C	3phase AC motor
D	None of these				
6	Conservator is a part of				Ans.B
A	Traction Motor	B	Transformer	C	Main Compressor
D	VCB				
7	MCBs will not trip if				Ans.D
A	AWS ON	B	HL Switch on	C	Flasher switch on
D	HOBA in OFF				
8	When earth fault in OVR (Relay) VCB will trip through				Ans.C
A	OVR	B	HEFRP	C	EFRP
D	OLP				
9	LTR relay is provided in				Ans.C
A	Power Circuit	B	Auxiliary-1 Circuit	C	Auxiliary II Circuit
D	Control Circuit				
10	Voltage rating of Auxiliary circuit-I is				Ans.B
A	141V	B	266V	C	230V
D	110V				
11	In case of earth faults in lights , which relay will act				Ans.C
A	EFRP	B	OLP	C	EFRA-II
D	RFAR				
12	Setting of OL5 & OL6 in EMU is				Ans.A
A	4000A	B	3000A	C	2000A
D	1000A				
13	SR not picking up with MSTWL, problem is				Ans.B
A	Tap changing contactor not closing	B	Motor Contactor not closing	C	SR relay I/L bad contact
D	Control switch defective				
14	KF-1 is a				Ans.A
A	Radiator cooling fan motor	B	Contactor	C	Changing over switch
D	Rectifier cooling fan motor				
15	Function of main rectifier is				Ans.B
A	To convert DC to AC	B	To convert AC to DC	C	To convert DC to variable DC
D	To convert 3 Phase AC to DC				
16	Total No. of auxiliary motors in a motor coach is				Ans.A
A	6	B	5	C	4
D	3				
17	Voltage rating of 4601 type traction motor in EMU/MEMU is				Ans.B
A	575V	B	535V	C	635V
D	475V				
18	Color of good silica gel is				Ans.B
A	Black	B	Blue	C	Pink
D	White				
19	Purpose of Auxiliary Rectifier is				Ans.C
A	To feed TM	B	To feed Aux. compressor	C	To feed Main compressor
D	To fed control circuit				
20	VCB will trip for the following relay				Ans.D
A	TTR	B	RFAR	C	CBAR
D	BIR				
21	Which of the following is a air flow relay				Ans.B
A	ARR	B	RFR	C	RFAR
D	TTR				
22	When TTR acts _____ lamp will glow				Ans.B
A	ABB	B	UFL	C	CHBA OFF
D	MSTWL				
23	CC1 is used for operating				Ans.B
A	Aux. compressor	B	Main compressor	C	Oil pump
D	Traction Motors				

24	Location of EAS is						Ans.B
A	Roof	B	HT Room	C	Cab	D	LI Room
25	CHBA output voltage is						Ans.D
A	110V AC	B	141 V	C	266 V	D	110V DC
26	Fans work with voltage						Ans.C
A	110 V AC	B	110 V DC	C	141V AC	D	266 V AC
27	Voltage of Aux-II circuit is						Ans.A
A	141 V	B	266 V	C	110 V	D	230 V
28	Location of OL1 and 2 relay is at						Ans.C
A	Tap changer	B	Relay panel	C	Switch group I	D	Switch group II
29	Relay to detect abnormalities in transformer						Ans.C
A	EFRA II	B	RFAR	C	BIR	D	OL 1&2
30	Main circuit breaker used in EMU/MEMU is						Ans.C
A	ABCB	B	SF-6	C	VCB	D	OCB
31	Location of SL is in						Ans.C
A	HT ROOM	B	LT ROOM	C	Choke Tank	D	Cab
32	Pick up voltage of OVR is						Ans.B
A	140 V	B	540 V	C	230 V	D	840 V
33	Setting temperature of TTR is at						Ans.B
A	150° C	B	70° C	C	200° C	D	35° C
34	To operate "OL Reset" switch should be OFF						Ans.B
A	ABB	B	Control	C	EP	D	HEFRP
35	Safety relays are						Ans.D
A	TTR,CBAR	B	TTR, RFAR	C	CBAR,NVR	D	BIR,OLP
36	Rating of twin beam head light is						Ans.C
A	24 V,70/75 W	B	110 V,70/75 W	C	24 V,100/90W	D	110V, 90/100 W
37	Input / output voltage of DC-DC converter is						Ans.C
A	110 V/110 V	B	110 V/100 V	C	110 V/24 V	D	110 V/32 V
38	SR relay is						Ans.A
A	EM type	B	EP type	C	Latching type	D	Electronic type
39	Total number of notches in EMU/MEMU is						Ans.B
A	11	B	22	C	20	D	None of these
40	Number of jumpers in MEMU						Ans.D
A	5	B	4	C	10	D	5&4
41	Electrolyte used in lead acid battery's is						Ans.B
A	Conc. sulphuric acid	B	Diluted sulphuric acid	C	Nitric acid	D	Hydro chloric acid
42	The rating of HRC fuse for control circuit is						Ans.B
A	50 A	B	32 A	C	63 A	D	10 A
43	The ampere hour capacity of MEMU LMLA battery is						Ans.A
A	90 AH	B	75 AH	C	95 AH	D	70 AH
44	ARR is						Ans.B
A	Air Reset Relay	B	VCB Reset Relay	C	ABB React Relay	D	Air Release Relay
45	CBAR is						Ans.A
A	Current Balancing Auxiliary Relay	B	Current Balancing Air Relay	C	Current Breaking Auxiliary Relay	D	Current Breaking Air Relay
46	Which of the following is NOT a safety relay						Ans.D
A	AFL Relay	B	Head Light	C	Flasher Light	D	Spot Light
47	Rating of OLP relay is						Ans.C
A	100 A	B	100 V	C	160 A	D	160 V

48	When earth faults occurs in Auxiliary compressor _____ will trip				Ans.C		
A	VCB	B	EFRA II	C	MCB	D	EFRP
49	Battery used in EMU/MEMU is				Ans.B		
A	Ni-Cd Cell	B	Lead acid Cell	C	Dry Cell	D	Edison Cell
50	Purpose of QFL relay is to				Ans.B		
A	Make flasher light to ON	B	To avoid flasher light to work during initial charging	C	To suppress flasher light	D	To by-pass flasher light
51	DMH is a part of				Ans.B		
A	Brake controller	B	Master controller	C	Guard brake	D	BL box
52	Breather is a part of				Ans.A		
A	Transformer	B	Traction Motor	C	VCB	D	Main Compressor
53	Silica gel is used				Ans.C		
A	To Lubricate Bearing of TM	B	To cool Transformer oil	C	To absorb moisture	D	To lubricate servo motor piston
54	CBAR will trip only when				Ans.B		
A	One bridge fuse blown	B	Two bridge fuse blown	C	For both a & b	D	Rectifier Fan not working
55	To operate EAS, which of the following key is required				Ans.B		
A	BL Key	B	Reverser Key	C	BIV Key	D	No key is required
56	Tap changer contactor auxiliary interlock Gap is				Ans.C		
A	2mm-4mm	B	1mm-2mm	C	2.4mm- 3.2mm	D	1.4mm-2.2mm
57	Condition for packing Starting Relay (SR) by crew is				Ans.C		
A	Can be packed only up to shunt power	B	can be packed only on Emergency	C	should not be packed	D	can be packed up to half power
58	Pick up voltage of LTR is				Ans.A		
A	70 V	B	100 V	C	110 V	D	120 V
59	Buckholz relay is to protect				Ans.A		
A	Transformer	B	Traction motor	C	Main Rectifier	D	MCP
60	Test done on the transformer oil to know incipient faults in transformer				Ans.D		
A	PPT	B	DPT	C	BDV	D	DGA
61	PRV is to protect				Ans.B		
A	TM	B	Transformer	C	Main Compressor	D	Rectifier
62	Size of cable used in control circuit is				Ans.A		
A	3 sq.mm	B	10sq.mm	C	25 sq.mm	D	50 sq.mm
63	In MEMU the setting of ABB Governor Cut in/cut out is				Ans.C		
A	6.0/7.0 kg/cm.sq	B	8.0/9.0 kg/cm.sq	C	5.5/4.5 kg/cm.sq	D	4.0/5.0 kg/cm.sq
64	Current collected from OHE through				Ans.B		
A	VCB	B	Pantograph	C	Transformer	D	Rectifier
65	Transformer Oil is cooled by				Ans.B		
A	Rectifier Motor	B	Radiator Motor	C	Oil Pump Motor	D	MCP
66	Rating of HRC fuses in fan circuit				Ans.A		
A	63 Amps	B	100 Amps	C	32 Amps	D	16 Amps
67	Total battery voltage in MEMU				Ans.D		
A	90 V	B	80 V	C	100 V	D	110 V
68	No. of bridges in EMU Rectifier				Ans.A		
A	4	B	2	C	1	D	3
69	DC series motor is used for traction purpose because				Ans.B		
A	High speed	B	High starting torque	C	Low starting torque	D	Constant torque at all speeds
70	Rating of MEMU transformer is				Ans.B		
A	1200 KVA	B	1000 KVA	C	800 KVA	D	1100 KVA
71	The safety device provided in MEMU for detecting gassing and protection of transformer is				Ans.C		
A	OLP	B	TTR	C	BUD	D	PRV

72	The safety device fitted to the MEMU Transformer for its protection against explosion						Ans.A	
A	PRV	B	BUD	C	OLP	D	TTR	
73	Which of the following is NOT correct for trouble shooting for "Motor contactor not closing"						Ans.D	
A	Check the normal condition of 15A master controller MCB	B	Check the condition of CBAR	C	Check the condition of RFAR	D	Check the condition of LTR	
74	Purpose of CLR 1/2 is						Ans.D	
A	To limit the current at lower notches	B	To trip the VCB when current is more than the set limit	C	To open the motor contacts when current is more than the set limit	D	To stop further notches when current is more than the set limit	
75	When OL-1 is acted (energized)						Ans.D	
A	VCB will trip	B	M-1 will open	C	Further notches will stop	D	M-1 and M-2 will open	
76	EFRP may act because of the earth fault in:						Ans.B	
A	TM-1, ROVR & SBC	B	Tapping contactors & OL6	C	Main rectifier & Aux. Rectifier	D	TL & Primary winding of main transformer	
77	Action in lead acid cell						Ans.A	
A	Reversible	B	Irreversible	C	Both a & b	D	None	
78	With OL Reset switch , how many relays can be reset (if acted)						Ans.D	
A	2	B	4	C	6	D	8	
79	CT ratio of OLP is						Ans.A	
A	160/0.7 A	B	150/0.7 A	C	150/7 A	D	160/7 A	
80	"Aux rectifier trip" indication lamp will glow when VCB is closed and ____ relay is not energized						Ans.C	
A	ABR	B	CBAR	C	LTR	D	SR	
81	The type of cooling of transformer oil is						Ans.A	
A	OFAF	B	OF	C	AF	D	None of the above	
82	The voltage of primary winding of MEMU transformer is						Ans.A	
A	25 KV	B	266 V	C	782 V	D	None of the above	
83	The voltage of Secondary winding of MEMU transformer is						Ans.C	
A	25 KV	B	266 V	C	782 V	D	None of the above	
84	The voltage of Auxiliary I winding of MEMU transformer is						Ans.B	
A	25 KV	B	266 V	C	782 V	D	None of the above	
85	The voltage of Auxiliary II winding of MEMU transformer is						Ans.A	
A	A	141V	B	266 V	C	782 V	D	None of the above
86	The capacity of oil pump in MEMU is						Ans.D	
A	363.6 lpm	B	263.6 lpm	C	360 lpm	D	400 lpm	
87	The setting of thermostat in MEMU transformer is						Ans.B	
A	75 °C	B	85 °C	C	65 °C	D	None of the above	
88	BDV stands for						Ans.B	
A	Break down value	B	Break down voltage	C	Break drop voltage	D	None of the above	
89	BDV for new filtered oil for transformer is						Ans.B	
A	40 KV	B	60 KV	C	30 KV	D	None of the above	
90	The location of ASL in MEMU is						Ans.A	
A	HT compartment	B	LT compartment	C	Bogie	D	None of the above	
91	Total no. of air filters for traction motors in EMU are						Ans.C	
A	4	B	8	C	16	D	32	
92	When AWS is switched ON only notches will come upto						Ans.A	
A	Shunt	B	Half power	C	Full power	D	No notches	
93	Cross sectional area of CHT cable used in EMU/MEMU is						Ans.B	
A	90 sq.mm	B	120 sq.mm	C	100 sq.mm	D	140 sq.mm	
94	HRC fuses for protecting the battery is rated at						Ans.D	
A	100 A	B	120A	C	70 A	D	80A	

95	MCB rating for oil pump is				Ans.B		
A	10 A	B	15 A	C	5 A	D	None of these
96	MCB rating for rectifier fan				Ans.A		
A	10 A	B	15 A	C	5 A	D	None of these
97	MCB for protecting LTR is rated at				Ans.D		
A	15 A	B	30 A	C	5 A	D	2.5 A
98	HRC fuse for the protection of Auxilliary rectifier is rated at				Ans.B		
A	120 A	B	100 A	C	80 A	D	160 A
99	MCB protection for baby compressor is rated at				Ans.B		
A	10 A	B	15 A	C	16 A	D	32 A
100	HRC fuse for the protection of Main Compressor is rated at				Ans.D		
A	120 A	B	100 A	C	80 A	D	160 A
101	Pick Up voltage of SR is				Ans.B		
A	55 V AC	B	55 V DC	C	70 V AC	D	70 V DC
102	CLR pick up current is				Ans.A		
A	500 A	B	425 A	C	600 A	D	400 A
103	CLR drop out current value is				Ans.B		
A	500 A	B	425 A	C	600 A	D	400 A
104	TTR relay will pickup when interlock of TTS is				Ans.B		
A	Opened	B	Closed	C	No I/L is used	D	None of these
105	RFAR relay will pick up if RFR Airflow interlock is				Ans.B		
A	Opened	B	Closed	C	No I/L is used	D	None of these
106	The rating of HRC fuse used for the Main Rectifier is				Ans.A		
A	750 A	B	250 A	C	100 A	D	300 A
107	The resistance used for providing weak field modification is				Ans.A		
A	0.027 Ohms	B	0.564 Ohms	C	0.891 Ohms	D	0.091 Ohms
108	MCB rating for Master controller is				Ans.B		
A	10 A	B	15 A	C	16 A	D	32 A
109	When MPT is moved into Shunt Position which wire No gets supply				Ans.A		
A	1	B	2	C	3	D	4
110	In DMH brake, entire BP is exhausted through which valve?				Ans.D		
A	Pilot valve	B	Equalising discharge Valve	C	Triple valve	D	DMH check Valve
111	Dropping reactor will be in power circuit upto which notch?				Ans.B		
A	9	B	10	C	11	D	12
112	Forward and Reverse direction of TM is controlled through which wires?				Ans.D		
A	1&2	B	1&3	C	3&4	D	5&6
113	Traction Ammeter is connected to which TMs?				Ans.B		
A	1&2	B	1&3	C	3&4	D	5&6
114	Length of wearing strip of Pantograph is				Ans.C		
A	1000 mm	B	1220 mm	C	1026	D	1050 mm
115	Maximum rated voltage of VCB				Ans.A		
A	30 KV	B	25 KV	C	35 KV	D	50 KV
116	Type of Insulation used in CHT Cable is				Ans.B		
A	PE	B	XLPE	C	PVC	D	Vulcanised Rubber
117	Primary Current in Transformer				Ans.D		
A	10 A	B	20 A	C	30 A	D	40 A
118	Total Voltage from Tapped winding is				Ans.C		
A	358 V	B	341 V	C	391 V	D	400V

119	Total Voltage from Untapped winding is				Ans.C
A	358 V	B	341 V	C	391 V
		D	400V		
120	RTL and PFD is cooled using				Ans.C
A	Transformer oil	B	Rectifier fan	C	Natural air
		D	None of these		
121	Minimum pressure required for working of Tapchanger is				Ans.C
A	4 kg/sq.cm	B	4.5 kg/sq.cm	C	3.16 kg/sq.cm
		D	5 kg/sq.cm		
122	Rated Continuous Current of tapchanger is				Ans.A
A	1300 A AC	B	1000 A AC	C	500 A AC
		D	750 A AC		
123	Rated Voltage of Motor Contactors is				Ans.D
A	1300 A AC	B	1000 A AC	C	500 A AC
		D	1500 A DC		
124	Which of these relays acting cause VCB to trip?				Ans.C
A	TTR	B	CBAR	C	PRV
		D	RFAR		
125	Which of these relays cause motor contactors to open?				Ans.D
A	EFRA - II	B	OLP	C	PRV
		D	RFAR		
126	TSS is kept in TEST position during which instance?				Ans.B
A	HT Test	B	LT Test	C	Running
		D) None of these		
127	The train is said to be running in half power between ___ & ___ notches				Ans.C
A	1&13	B	3&10	C	3&12
		D	13&22		
128	TL is said to be in service during _____ notches				Ans.B
A	Even	B	Odd	C	All
		D	None of these		
129	The order of closing of tapping contactors in 1 st Notch is				Ans.A
A	T9, T1, T7	B	T1, T8	C	T1, T9, T7
		D	T1, T7, T9		
130	MCB for EP unit is rated at _____				Ans.B
A	4 A	B	5 A	C	10 A
		D	15 A		
131	Malfunctioning of Oil pump would result in acting of which relay?				Ans.D
A	NVR	B	LTR	C	RFAR
		D	TTR		
132	MCB for protecting NVR is rated at				Ans.A
A	5 A	B	10 A	C	15 A
		D	30 A		
133	Malfunctioning of NVR would result in ___ relay not picking up.				Ans.C
A	LTR	B	RFAR	C	SR
		D	ABR		
134	Capacitor rating of Oil Pump is rated at				Ans.B
A	10 mFD	B	40 mFD	C	30 mFD
		D	50 mFD		
135	Choke tank houses				Ans.C
A	RTL,PFD, TL	B	SL, PFD, DL	C	SL, TL, DL
		D	RTL, DL, PFD		
136	Choke tank is cooled by				Ans.A
A	Transformer Oil	B	Forced Air	C	Natural Air
		D	None of these		
137	Rectifier fan should work when _____ relay is energised				Ans.B
A	TTR	B	ABR	C	ARR
		D	CR		
138	Current rating of Rectifier fan motor is				Ans.B
A	10 A	B	4.5 A	C	7 A
		D	15 A		
139	Radiator fans not working would result in acting of _____				Ans.B
A	RFAR	B	TTR	C	CBAR
		D	SR		
140	Fully Charged Battery will have specific gravity of				Ans.D
A	1260	B	1100	C	1280
		D	1220		
141	Fully discharged battery will have specific gravity of				Ans.B
A	1260	B	1100	C	1280
		D	1220		
142	Each cell in battery will produce ___ volts				Ans.D
A	1.2 V	B	2 V	C	1.5 V
		D	2.2 V		

143	Contactor used for Auxiliary Compressor is							Ans.A
A	CC2	B	CC1	C	NL1	D	FC1	
144	The switch for getting battery feed from other MC is							Ans.B
A	CC1	B	CCOS	C	CC2	D	None of these	
145	Battery Charger failure will result in the glowing of _____ Lamp							Ans.D
A	MSTWL	B	PFD	C	VCB OFF	D	BCFR	
146	Controlling relay of Main Compressor is							Ans.C
A	ABR	B	LTR	C	CR	D	ARR	
147	Main Contact gap of CC1 contactor is							Ans.B
A	3.5 – 4.13 mm	B	6.15 – 7.35 mm	C	4.33 – 6.23 mm	D	6.23 mm – 8 mm	
148	OHE line voltmeter is connected to _____ circuit							Ans.C
A	Primary	B	Auxiliary I	C	Auxiliary II	D	None of these	
149	OHE Line voltmeter is protected by MCB of							Ans.B
A	10 A	B	2.5 A	C	5 A	D	15 A	
150	Fans power circuit is protected by HRC fuse of							Ans.C
A	16 A	B	32 A	C	63 A	D	20 A	
151	Lights Power circuit is protected by HRC fuse of							Ans.C
A	16 A	B	32 A	C	63 A	D	20 A	
152	Main Contactor gap of light contactor is							Ans.D
A	4.13 mm	B	7.35 mm	C	6.23 mm	D	10.30 mm	
153	Which of the following is a current operated relay?							Ans.C
A	RFAR	B	OVR	C	OLP	D	NVR	
154	Which of the following is a voltage operated relay?							Ans.A
A	LTR	B	OL1 & OL2	C	OLP	D	CLR	
155	Which of the following is neither current nor voltage operated relay?							Ans.B
A	LTR	B	TTR	C	CR	D	SR	
156	EFRA – II acting would result in tripping of							Ans.C
A	Main Compressor	B	Motor contactor	C	VCB	D	SR	
157	OLP is connected across							Ans.A
A	Primary winding	B	Tapped winding	C	Aux – 1	D	Aux 2	
158	The location of OLP/EFRP is at							Ans.B
A	HT room	B	Relay panel bottom	C	LT room	D	Driving cab	
159	Coil resistance of OLP/EFRP at 20 degree Celsius is							Ans.D
A	100 Ohms	B	150 Ohms	C	173 Ohms	D	196 Ohms	
160	OLP/EFRP, if acted should be reset only _____							Ans.A
A	Once	B	twice	C	Thrice	D	Should not be reset	
161	OL 5 & OL 6 is located in							Ans.A
A	Tap Changer box	B	Switch Group -1	C	Switch group -2	D	HT room	
162	Slow and fast buds for releasing gases in transformer is located at							Ans.C
A	LT room	B	Relay panel bottom	C	HT room	D	Driving cab	
163	Which of these relays will cause VCB to trip?							Ans.D
A	TTR	B	RFAR	C	CBAR	D	BIR	
164	EFRP pick up is set at							Ans.C
A	160 A AC	B	100 V DC	C	50 V DC	D	160 V DC	
165	Which of these should be in open condition in order for SR to pick up?							Ans.A
A	Tap Changers	B	Motor Contactors	C	Negative Contactors	D	None of these	
166	Pick Up voltage of SR is rated at							Ans.C
A	110 V DC	B	110 VAC	C	55 V DC	D	55 V AC	

167	If any one of the rectifier branch fuse is blown, then						Ans.C
A	VCB will trip	B	Motor Contactors open	C	Indication to driver	D	None of these
168	Resetting of OLP is done through						Ans.B
A	Manual reset	B	OL reset switch	C	Cannot reset	D	None of these
169	Rating OL1-4 is set at						Ans.D
A	500 A	B	500 V	C	900 V	D	900 A
170	CLR 1 is located at						Ans.A
A	Switch Group 1	B	Relay panel	C	LT room	D	Rectifier cubicle
171	CLR 2 is connected in series to TM no						Ans.C
A	1	B	2	C	3	D	4
172	CLR energisation will result in						Ans.C
A	VCB tripping	B	Application of brake	C	Further notches not responding	D	Motor contactors open
173	OVR is located in						Ans.D
A	Switch Group 1	B	Relay panel	C	LT room	D	Switch Group 2
174	AOVR is located in						Ans.A
A	Switch Group 1	B	Relay panel	C	LT room	D	Switch Group 2
175	Governor bypass switches are located in						Ans.B
A	HT Room	B	LT room	C	Cab	D	None of these
176	Which of the lamps will glow if TTR is energized?						Ans.A
A	UFL	B	PFD	C	VCB off	D	MSTL
177	UFL lamp is located at						Ans.A
A	D/s & G/s outside the MC	B	Near the headlight	C	Near Flasher Light	D	None of these
178	SPM will NOT indicate the following value						Ans.D
A	OHE Voltage	B	Speed	C	Distance	D	MR Pressure
179	Pulse generator for speed measurement is attached in wheel no						Ans.B
A	2	B	1	C	4	D	5
180	The number of pulses for one wheel axle rotation is given by						Ans.C
A	180	B	360	C	60	D	120
181	Value of ROVR is						Ans.B
A	10 kΩ, 160W	B	12 kΩ, 160W	C	12 kΩ, 100W	D	10 kΩ, 100W
182	Contact gap of master controller is						Ans.B
A	4.32 – 5.3 mm	B	2.54- 3.18 mm	C	1.5mm – 3.34mm	D	3.43 – 4.32 mm
183	Maximum voltage across that can be taken from the first notch is						Ans.B
A	90 V	B	78.2 V	C	81.5 V	D	76.2 V
184	Minimum Closing voltage for LTR is						Ans.D
A	110 V DC	B	100 V DC	C	85 V DC	D	55 V DC
185	Working voltage for head light is						Ans.B
A	50 V DC	B	24 V DC	C	110 V DC	D	100 V DC
186	Opening time for AAL make VCB is approx						Ans.A
A	<60 ms	B	< 80 ms	C	< 100 ms	D	none of these
187	Closing time for AAL make VCB is approx.						Ans.C
A	<60 ms	B	< 80 ms	C	< 100 ms	D	none of these
188	Height from centre line of coupler to floor level for MEMU/EMU is						Ans.C
A	1590 mm	B	1290 mm	C	1030 mm	D	none of these
189	Instrument LED lights in various gauges and meters work with						Ans.D
A	55 V DC	B	55V AC	C	110 V AC	D	110 V DC
190	The number of relays present behind driver in relay panel is						Ans.B
A	5	B	10	C	8	D	6

191	Which of the following is governor bypass switch for Equipment Governor?							Ans.A
A	GS-1	B	GS-2	C	GS-3	D	GS-4	
192	Which of the following is governor bypass switch for Control Governor?							Ans.B
A	GS-1	B	GS-2	C	GS-3	D	GS-4	
193	Which of the following is governor bypass switch for Main Compressor Governor?							Ans.C
A	GS-1	B	GS-2	C	GS-3	D	GS-4	
194	Which of the following is governor bypass switch for Baby Compressor Governor?							Ans.D
A	GS-1	B	GS-2	C	GS-3	D	GS-4	
195	NR1 & NR2 is located at							Ans.B
A	Tap Changer Box	B	Switch Group 1	C	Switch group2	D	LT room	
196	PFD is located under truck at							Ans.A
A	LP side	B	Guard side	C	Rear of MC	D	Center	
197	Transformer oil gauge could be found in							Ans.C
A	Under truck	B	LT room	C	HT room	D	Driving cab	
198	Silica gel breather is found near to							Ans.D
A	Choke tank	B	Transformer tank	C	On roof	D	Conservator tank	
199	Which of the following relays CANNOT be reset using control switch							Ans.D
A	OL1&2	B	OLP	C	OL5&6	D	EFRA 2	
200	Which of the following is a transfer contactor							Ans.B
A	T1	B	T8	C	T6	D	T3	
201	HRC fuse for protection of PFD is rated at							Ans.B
A	160 A	B	80 A	C	100 A	D	120 A	
202	MCB for protection of CC2 coil is rated at							Ans.A
A	2.5 A	B	5 A	C	10 A	D	None of these	
203	BIS switch is located at							Ans.C
A	HT room	B	Driver desk	C	LT room	D	None of these	
204	During LT test TSS is kept in							Ans.B
A	Run	B	Test	C	Position doesn't matter	D	None of these	
205	If one battery is open circuit , battery voltmeter would show voltage of							Ans.D
A	70-80 V	B	60-70 V	C	80-90V	D	0 V	
206	Which of the following relays should not be packed?							Ans.A
A	SR	B	LTR	C	CR	D	RFAR	
207	Tap Changing Contactors are of _____ type							Ans.A
A	Electro Pneumatic	B	Electro magnetic	C	Hydraulic	D	None of these	
208	Compressor Contactors are of							Ans.B
A	Electro Pneumatic	B	Electro magnetic	C	Hydraulic	D	None of these	
209	In which of the following positions of master controller DMH brake will NOT work?							Ans.A
A	OFF	B	Shunt	C	Half power	D	Full power	
210	Air drier works with a voltage of							Ans.C
A	55 VDC	B	55 V AC	C	110 V DC	D	110 V AC	
211	_____ gets energized in the event of train parting on run?							Ans.C
A	A	RFAR	B	CBAR	C	AFL	D	TTR
212	Full form of AWS is							A
A	Aux warning system	B	Auto warning switch	C	Auto working system	D	Aux working system	
213	Capacity of VRLA batteries used in MEMU							C
A	75AH	B	90AH	C	120AH	D	180AH	
214	Full form of EAS is							A
A	Earthing switch	B	Earth fault aux switch	C	Earth automatic switch	D	Earthing system	

215	Full form of MCB is						B
A	Main circuit breaker	B	Miniature circuit breaker	C	Model circuit breaker	D	Master circuit breaker
216	In case of VCB trip, following relay need not be checked						D
A	OLP/EFRP	B	PRV	C	EFRA	D	SR
217	BCFR relay is for						C
A	Brake cylinder fault	B	Bogie cock failure	C	Battery charger failure	D	None
218	Choke tank consists of						D
A	SL	B	DL	C	TL	D	All
219	ASL is located in						B
A	Choke tank	B	HT compartment	C	LT compartment	D	Under frame
220	BRH full form is						B
A	Bogie releasing handle	B	Brake releasing handle	C	BP releasing handle	D	Brake rigging handle
221	PLTE means						C
A	Pressure loss test efficacy	B	Pressure loss emergency test	C	Partial loss of tractive effort	D	Pressure loss of tractive effort
222	TLC means						A
A	Traction loco controller	B	Traffic line controller	C	Traffic loco controller	D	Traction line controller
223	NR means						B
A	Noload Relay	B	Notching relay	C	Negative relay	D	Normal relay
224	WCO						B
A	Winding control over	B	Winding changeover	C	Working changeover	D	Winding chokeover
225	TTR means						D
A	Transient testing relay	B	Transformer transition rlay	C	Transformer testing relay	D	Transformer thermostat relay
226	SBC means						D
A	Static brake cylinder	B	Smootening battery charger	C	Stroke of brake cylinder	D	Static battery charger
227	ASS means						D
A	Aux selection switch	B	Ammeter safety switch	C	Ammeter start switch	D	Ammeter selector switch
228	TSS means						C
A	Thermostat safety switch	B	Test safety switch	C	Test sequence switch	D	Thermostat sequence switch
229	Following contactors are closed in 1 st notch						D
A	T1, T7, T8	B	T1, T7	C	T1, T7, T8	D	T1, T7, T9
230	GLA means						C
A	Grounding Lightning arrestor	B	Gap Lightning arrestor	C	Gapless Lightning arrestor	D	Gap light arrestor
231	Purpose of PFD is to						A
A	To reduce pulses in supply	B	To increase speed	C	To reduce field current	D	none
232	Following is a safety item in MEMU						D
A	Head Light	B	Flasher Light	C	Horn	D	All
233	Following is not a safety item						B
A	Wiper	B	SR	C	Horn	D	Head light
234	If one rectifier bridge fuse melts						A
A	CBR A will energize	B	CBR B will energize	C	CBAR will trip	D	None
235	If more than one rectifier bridge fuse melts						D
A	CBR A will energize	B	CBR B will energize	C	CBAR will trip	D	B & C
236	ASL is						B

A	Capacitive	B	Inductive	C	Resistive	D	None	
237	In MEMU, direction of TM is changed by							B
A	Changing Armature current	B	Changing field current	C	By applying weak field	D	With permanent field diverter	
238	What is positive bonding							D
A	Earthing of positive side of power circuit	B	Earthing of positive side of Aux 1 circuit	C	Earthing of positive side of Aux 2 circuit	D	Earthing of positive side of battery circuit	
239	What is negative bonding							D
A	Earthing of negative side of power circuit	B	Earthing of negative side of Aux 1 circuit	C	Earthing of negative side of Aux 2 circuit	D	Earthing of negative side of battery circuit	
240	Which is more dangerous							C
A	Positive bonding	B	Negative bonding	C	Positive bonding with negative bonding	D	All	
241	Purpose of DL is							D
A	To provide 11 & 12 notches	B	To increase short circuit reactance of TFP	C	To reduce notching switching current	D	All	
242	TL & RTL will be in							A
A	Series	B	Parallel	C	A & B	D	None	
243	RTL & T9 will be in							B
A	Series	B	Parallel	C	A & B	D	None	
244	How many transfer contactors will be there in MEMU							C
A	9	B	6	C	3	D	zero	
245	TL will be in circuit in							C
A	Even notches	B	All notches	C	Odd notches	D	none	
246	In 13 th notch							C
A	TL, DL will be in circuit	B	Only DL will be in circuit	C	Only TL will be in circuit	D	None	
247	In 11 th notch							A
A	TL, DL will be in circuit	B	Only DL will be in circuit	C	Only TL will be in circuit	D	None	
248	Location of AOVR is							B
A	Switch group 1	B	Switch group 2	C	Tap changer box	D	Driver cab relay panel	
249	Following are latch type relays							C
A	ABR	B	CR	C	A & B	D	None	
250	Voltage available at LTR is							A
A	AC	B	DC	C	AC or DC	D	None	
251	Voltage available at NVR is							B
A	AC	B	DC	C	AC or DC	D	None	
252	OP & RF are protected on neutral side by							C
A	15A fuse	B	15A MCB	C	32A fuse	D	32A MCB	
253	KFs are protected on neutral side by							A
A	16A fuse	B	16A MCB	C	32A fuse	D	32A MCB	
254	KFs are protected on phase side by							D
A	16A fuse	B	16A MCB	C	5A fuse	D	5A MCB	
255	In MEMU the setting of ABB Governor Cut in/cut out is							Ans.C
A	6.0/7.0 kg/cm ²	B	8.0/9.0 kg/cm ²	C	5.5/4.5 kg/cm ²	D	4.0/5.0 kg/cm ²	
256	In MEMU the setting of MCP Governor Cut in/ cut out is							Ans.D
A	5.0/6.0 kg/cm ²	B	7.0/8.0 kg/cm ²	C	4.5/5.5 kg/cm ²	D	6.0/7.0 kg/cm ²	
257	In MEMU the setting of equipment governor cut in/cut out is							Ans.C
A	4.5/5.5 kg/cm ²	B	2.2/3.8 kg/cm ²	C	4.2/3.3 kg/cm ²	D	4.4/5.2 kg/cm ²	

258	In MEMU maximum MR Pressure is						Ans.B
A	5.0 kg/cm ²	B	7.0kg/cm ²	C	6.0 kg/cm ²	D	8.0 kg/cm ²
259	Additional limiting valve output pressure in TC						Ans.C
A	1.6 Kg/cm ²	B	3.5 Kg/cm ²	C	1.8 Kg /cm ²	D	2.5 Kg/cm ²
260	BP Pressure required to start the train						Ans.A
A	5 kg/cm ²	B	6 kg/cm ²	C	4 kg/cm ²	D	7 kg/cm ²
261	Main Compressor Governor Cut out pressure						Ans.C
A	6.0 kg/cm ²	B	6.3 kg/cm ²	C	7 kg/cm ²	D	7.5 kg/cm ²
262	Brake Cylinder Pressure in MEMU-MC is						Ans.B
A	1.2 kg/cm ²	B	1.6 kg/cm ²	C	2 kg/cm ²	D	1.4 kg/cm ²
263	Main Reservoir safety valve setting						Ans.B
A	6.75 kg/cm ²	B	8 kg/cm ²	C	7.75 kg/cm ²	D	7 kg/cm ²
264	Panto raising time						Ans.A
A	6-10 sec	B	8-10 sec	C	7-10 sec	D	7-12 sec
265	Number of Pantograph mounting insulators						Ans.A
A	04 Nos	B	05 Nos	C	06 Nos	D	08 Nos
266	Auto brake releasing time in MEMU						Ans.C
A	2-4 sec	B	5.5-6.5sec	C	5.5- 7 sec	D	2.7-3.5 sec
267	Capacity of Air suspension reservoir in MEMU Coach in liters						Ans.D
A	120	B	135	C	105	D	150
268	No.of Positions in brake controllers						Ans.B
A	3	B	5	C	7	D	8
269	Which pressure is dropped while applying the guard emergency brake						Ans.B
A	MR pressure	B	BP pressure	C	BC pressure	D	AR pressure
270	BP created from which valve						Ans.C
A	AMV in EP unit	B	BIV	C	PRV in brake controller	D	Eq. discharge valve
271	Which valve energized first while applying partial EP						Ans.A
A	HMV	B	AMV	C	Stabilizing valve	D	Tripple valve
272	WSF Brake controllers are of which type						Ans.A
A	ED6	B	LD2	C	KBR VIII C1	D	EDBC III m
273	Which one of the following is NOT correct for trouble shooting "PT not raising"						Ans.C
A	Check sufficient availability of air pressure	B	Check normal condition of 15A MCB	C	Check CC-1 coil by test lamp	D	Check battery voltage above 85 V
274	In MEMU one of the following is a part of brake controller						Ans.B
A	Tripple valve	B	Equalizing discharge valve	C	Safety valve	D	Application magnet valve
275	In MEMU one of the following is a part of EP unit						Ans.B
A	Equalizing valve	B	Triple valve	C	Puppet valve	D	none of the above
276	In MEMU the setting of equipment governor cut in/cut out is						Ans.C
A	4.5/5.5 kg/cm ²	B	2.2/3.8 kg/cm ²	C	4.2/3.3 kg/cm ²	D	4.4/5.2 kg/cm ²
277	In MEMU the setting of control governor cut in/cut out is						Ans.B
A	5.5/4.3 kg/cm ²	B	4.2/3.3 kg/cm ²	C	5.5/6.5 kg/cm ²	D	3.2/4.8 kg/cm ²
278	In MEMU the BC pressure in motor coach/trailer coach is:						Ans.C
A	1.6/1.6 kg/cm ²	B	1.8/1.6 kg/cm ²	C	1.6 /1.8 kg/cm ²	D	1.6/1.2 kg/cm ²
279	The location of Air Dryer in EMU is						Ans.C
A	HT compartment	B	LT compartment	C	Under frame of MC	D	None of the above
280	Safety valve of Main compressor is set at						Ans.C
A	7 kg/sq.cm	B	6 kg/sq.cm	C	8 kg/sq.cm	D	5 kg/sq.cm
281	Safety valve of Main Compressor in First Stage is set at						Ans.A
A	3.5 kg/sq.cm	B	5 kg/sq.cm	C	4 kg/sq.cm	D	3 kg/sq.cm

282	Pressure build up time for auxiliary compressor is approx						Ans.C
A	6 mins	B	7 mins	C	12 mins	D	8 mins
283	In Puppet valve, A&B are called _____ ports						Ans.C
A	Equalising	B	Limiting	C	Charging	D	Discharging
284	In Puppet valve, C&D are called _____ ports						Ans.D
A	Equalising	B	Limiting	C	Charging	D	Discharging
285	Parking Brake reservoir capacity is						Ans.A
A	9 L	B	10 L	C	20 L	D	15 L
286	Horn reservoir capacity is						Ans.A
A	9 L	B	10 L	C	20 L	D	15 L
287	Capacity of Air suspension supplementary reservoir of MC is						Ans.C
A	9 L	B	10 L	C	20 L	D	15 L
288	EP Unit has how many ports						Ans.C
A	4	B	6	C	5	D	3
289	BC pressure in Trailer Coach of MEMU is						Ans.A
A	1.2 kg/sq.cm	B	1.6 kg/sq.cm	C	3.2 kg/sq.cm	D	1.8 kg/sq.cm
290	In DMH brake, entire BP is exhausted through which valve?						Ans.D
A	Pilot valve	B	Equalizing discharge Valve	C	Triple valve	D	Emergency brake Valve
291	Application Magnet valve gets supply from which wire ?						Ans.C
A	36	B	37	C	38	D	39
292	Holding Magnet valve gets supply from which wire						Ans.B
A	36	B	37	C	38	D	39
293	In emergency brake, which ports are in open position in puppet valve?						Ans.D
A	A&B	B	A&C	C	B&D	D	C&D
294	In emergency brake, which ports are in closed position in puppet valve?						Ans.A
A	A&B	B	A&C	C	B&D	D	C&D
295	In EP position , which ports are in closed condition in puppet valve?						Ans.D
A	A&B	B	A&C	C	B&D	D	C&D
296	In EP position , which ports are in open condition in puppet valve?						Ans.A
A	A&B	B	A&C	C	B&D	D	C&D
297	In Auto position which ports are in open condition in puppet valve?						Ans.C
A	A	B	B	C	C	D	D
298	In LAP position which ports are in open condition?						Ans.D
A	A	B	B	C	C	D	None of these
299	Capacity of pantograph reservoir is						Ans.A
A	120 L	B	100 L	C	90 L	D	150 L
300	Length of wearing strip of Pantograph is						Ans.C
A	1000 mm	B	1220 mm	C	1026	D	1050 mm
301	Minimum pressure required for raising the pantograph is						Ans.B
A	6 kg/sq.cm	B	4.5 kg/sq.cm	C	5 kg/sq.cm	D	7 kg/sq.cm
302	Contact force of Pantograph to OHE is						Ans.B
A	10 kg	B	7 kg	C	8 kg	D	12 kg
303	Minimum pressure required for working of Tapchanger is						Ans.C
A	4 kg/sq.cm	B	4.5 kg/sq.cm	C	3.16 kg/sq.cm	D	5 kg/sq.cm
304	Closing of EPIC cock would result in _____ brake not working						Ans.D
A	Auto	B	Emergency	C	DMH	D	EP
305	Closing of AIC cock would result in _____ brake not working						Ans.A
A	Auto	B	Emergency	C	DMH	D	EP
306	Pressure from baby compressor is used for which operation?						Ans.C

A	Brake Application	B	Horns	C	VCB closing	D	None of these
307	The relative humidity of air at the outlet of Air drier should be approx.						Ans.D
A	<45%	B	<10%	C	<25%	D	<35%
308	Reducing valve in Brake controller reduces pressure from ___ kg/sq.cm to ___ kg/sq.cm						Ans.C
A	6,4	B	5,3.5	C	7,5	D	6,3
309	Self lapping mechanism is used in ___ Brake						Ans.D
A	Auto	B	Emergency	C	DMH	D	EP
310	Pressure in top and bottom chambers of Triple Valve is						Ans.C
A	4 kg/sq.cm	B	3.2 kg/ sq.cm	C	5 kg/sq.cm	D	5.5 kg/sq.cm
311	Which cock needs to be closed if we need to isolate braking in one bogie?						Ans.B
A	AIC	B	BIC	C	EPIC	D	CIC
312	Control governor monitors which pressure?						Ans.B
A	MR	B	BP	C	PB	D	None of these
313	Ideal brake power applied on coach is approx ___% of tare weight						Ans.D
A	10	B	20	C	30	D	40
314	BP pipe line passes through the _____ side						Ans.A
A	LP side	B	Guard Side	C	Centre	D	None of these
315	MR pipeline passes through the _____ side						Ans.B
A	LP side	B	Guard Side	C	Centre	D	None of these
316	MR pipeline is having a size of						Ans.B
A	1 inch	B	¾ inch	C	½ inch	D	None of these
317	BP pipeline is having a size of						Ans.A
A	1 inch	B	¾ inch	C	½ inch	D	None of these
318	Horns and Wipers are fed with an air pressure of						Ans.D
A	8 kg/sq.cm	B	3.5 kg/sq.cm	C	5 kg/sq.cm	D	7 kg/sq.cm
319	Which of the following is not a part of brake controller?						Ans.C
A	BIV	B	Puppet Valve	C	Triple valve	D	Equalising discharge valve
320	Which of the following is not part of EP unit?						Ans.A
A	BIV	B	Triple valve	C	Stabilizing valve	D	None of these
321	In which of the following positions of master controller DMH brake will NOT work?						Ans.A
A	OFF	B	Shunt	C	Half power	D	Full power
322	Air drier works with a voltage of						Ans.C
A	55 VDC	B	55 V AC	C	110 V DC	D	110 V AC
323	Full form of NRV is						Ans.B
A	No return valve	B	Non return valve	C	Non rotary valve	D	None
324	Full form of AIC is						Ans.B
A	Actual Isolating coack	B	Auto isolating cock	C	Auto indication cock	D	Actual indication cock
325	No. of shunts in a pantograph						Ans.B
A	9	B	10	C	11	D	12
326	Wheel to Wheel Distance in mm on MEMU Bogies						Ans.A
A	1600+2 -1mm	B	1575mm	C	1625mm	D	1550mm
327	New wheel diameter of MEMU in mm is						Ans.B
A	877	B	952	C	962	D	857
328	Dashpot oil level of MC in mm						Ans.B
A	77	B	97	C	87	D	85
329	Gear ratio in EMU / MEMU						Ans.C
A	20: 90	B	20: 80	C	20 : 91	D	20 :81
330	No. of fixing bolts for Traction Motor on sump						Ans.D
A	07	B	08	C	05	D	04

331	Secondary Suspension in MEMU is recently received coaches is						Ans.B
A	Helical Spring	B	Air Suspension	C	Bolster Frame	D	Dash Pot
332	Ultrasonic Test is carried out to detect						Ans.B
A	Oil Leakages	B	Cracks	C	Temperatures	D	None of these
333	New EMU Brake block size in mm						Ans.D
A	46	B	47	C	48	D	49
334	No. of Brake Cylinders available in MEMU C Coach.						Ans.C
A	6	B	7	C	8	D	9
335	Lubricant used in MEMU Traction Motor Gear Case						Ans.A
A	Servo Coat 170 T	B	SS 68	C	RR 3	D	SP-100
336	Free Height of MEMU Helical Spring in mm						Ans.B
A	262	B	252	C	272	D	242
337	Shacku coupler lateral movement is restricted by						Ans.C
A	Pull Rod	B	Brake Hanger	C	Centering device	D	Lateral Dampers
338	Which of the following will take entire coach body weight						Ans.B
A	centre pivot	B	Side bearer	C	Helical Spring	D	Bolster assembly
339	Capacity of Air suspension reservoir in MEMU Coach in liters						Ans.D
A	120	B	135	C	105	D	150
340	Brake cylinder maximum piston stroke in mm						Ans.D
A	40	B	50	C	60	D	90
341	Max. permissible axle load						Ans.A
A	20 tonnes	B	40 tonnes	C	60 tonnes	D	80 tonnes
342	The wheel diameter condemn limit for MC is						Ans.C
A	952 mm	B	900 mm	C	877 mm	D	857 mm
343	The wheel diameter condemn limit for TC is						Ans.D
A	952 mm	B	900 mm	C	877 mm	D	857 mm
344	The type of TM suspension in mEMU is						Ans.B
A	Fixed	B	Axle hung nose suspended	C	Mounting pad	D	None of the above
345	The type of Schaku coupler in MEMU is						Ans.A
A	Semi-permanent	B	Permanent suspended	C	Screw coupling	D	None of the above
346	Number of pull rod holes in MEMU is						Ans.B
A	5	B	4	C	6	D	3
347	The variation in speed shown in different MCs of one rake is due to incorrect value of						Ans.A
A	Wheel diameter	B	Time	C	Memory card issue	D	None of these
348	The minimum permissible flange thickness is given by						Ans.B
A	29.4 mm	B	22 mm	C	18 mm	D	20 mm
349	Primary Suspension has ___ helical springs in One bogie						Ans.D
A	2	B	4	C	6	D	8
350	Vertical load of Bogie is carried by						Ans.A
A	Side bearers	B	Centre Pivot	C	Helical springs	D	None of these
351	Horizontal and braking force is carried by						Ans.B
A	Side bearers	B	Centre Pivot	C	Helical springs	D	None of these
352	Bolster to Bogie frame clearance in MEMU Motor coach is						Ans.C
A	30+/- 6mm	B	28+/- 6mm	C	24+/- 5mm	D	None of these
353	Bogie frame to body bolster clearance (min) in MEMU MC is						Ans.A
A	143 mm	B	100 mm	C	110 mm	D	None of these
354	Axle crown clearance for MEMU MC is						Ans.B
A	30+/- 6mm	B	38+/- 6mm	C	24+/- 5mm	D	None of these
355	Axle crown clearance in MEMU TC is						Ans.B

A	30+/- 6mm	B	33+/- 6mm	C	42+/- 5mm	D	None of these	
356	Bolster to Bogie frame clearance in MEMU TC is							Ans.C
A	40+/- 5mm	B	48+/- 6mm	C	31+/- 5mm	D	None of these	
357	Bogie frame to Body Bolster clearance in MEMU TC is							Ans.C
A	143 mm	B	100 mm	C	131 mm	D	None of these	
358	Height from centre line of coupler to floor level for MEMU/EMU is							Ans.C
A	1590 mm	B	1290 mm	C	1030+0-15 mm	D	none of these	
359	The type of bogie used in EMU/MEMU is of _____ type							Ans.C
A	Bo-Bo-Bo	B	Co-Co	C	Bo-Bo	D	None of these	
360	Type of brake block used in EMU/MEMU is of							Ans.B
A	Cast Iron	B	Composite	C	Steel	D	None of these	
361	What is the new wheel dia. of MEMU motor coach in mm							A
A	952	B	957	C	955	D	956	
362	What is the condemn wheel dia. of MEMU motor coach in mm							C
A	952	B	957	C	877	D	857	
363	What is the new wheel dia. of MEMU Trailer coach in mm							A
A	952	B	957	C	955	D	956	
364	What is the condemn wheel dia. of MEMU trailer coach in mm							D
A	952	B	957	C	877	D	857	
365	what is the condemn dia. of cast wheel of trailer coach in mm							C
A	952	B	850	C	877	D	857	
366	How many types of wheel discs are used in MEMU coaches							B
A	3	B	2	C	4	D	1	
367	what is the max allowable limit of Tread wear in mm							C
A	5	B	5.5	C	6	D	6.5	
368	what is the max allowable limit of root wear in mm							C
A	5	B	5.5	C	6	D	6.5	
369	what is the max allowable limit of flange wear in mm							B
A	2	B	3.5	C	3	D	6.5	
370	which type of wheel disc are used in MEMU coaches							C
A	Cast	B	Forged	C	A & B	D	None	
371	what is the crown clearance limit of a axle box of MC in mm							A
A	38±6	B	30±6	C	32±6	D	42±6	
372	what is the crown clearance limit of a axle box of TC in mm							D
A	38±6	B	30±6	C	32±6	D	42±6	
373	what is the crown clearance limit of a axle box of MC in mm air suspension							A
A	29±3	B	30±6	C	32±6	D	42±6	
374	what is the crown clearance limit of a axle box of TC in mm air suspension							C
A	38±6	B	30±6	C	32±5	D	42±6	
375	What is the clearance between bogie to bolster in MC							C
A	38±6	B	30±6	C	24±5	D	42±6	
376	What is the clearance between bogie to bolster in MC(air spring suspension)							A
A	40±5	B	30±6	C	24±5	D	42±6	
377	What is the clearance between bogie to bolster in TC(air spring suspension)							A
A	40±5	B	30±6	C	24±5	D	42±6	
378	What is the clearance between bogie to bolster in TC							C
A	38±6	B	30±6	C	31±5	D	42±6	
379	what is the tonnage capacity of MEMU MC axle							A
A	20	B	13	C	16	D	23	

380	what is the axle dia. of new MEMU axle in mm						C
A	184.2	B	184.25	C	184.15	D	184.10
381	what is the axle dia. of condemn MEMU axle in mm						C
A	184.15	D	184.10	C	181.10	D	182.15
382	which type of bearing is used in axle box of MEMU coaches						A
A	spherical roller	B	cylindrical roller	C	needle	D	ball
383	wheel to wheel distance of MC/TC in mm						C
A	1600±2	B	1600±1	C	1600 +2, -1	D	1600 -2, +1
384	which type of bearing is used in MSU of MEMU coaches						D
A	spherical roller	B	cylindrical roller	C	needle	D	Tapper roller
385	type of brake blocks are used in MEMU coaches						B
A	Cast iron	B	K type composite	C	L type composite	D	None
386	thickness of new size of brake block in mm						B
A	50	B	49	C	48	D	47
387	thickness of condemn size of brake block in mm						C
A	21	B	20	C	18	D	16
388	which is used for lubrication of side bearer and centre pivot						B
A	SP77	B	SP68	C	SP50	D	SP57
389	which is used for lubrication of centre pivot in TC						B
A	SP77	B	RR3	C	SP50	D	SP57
390	which is used for lubrication of dash pot						B
A	SP77	B	SP68	C	SP50	D	SP57
391	which is used for lubrication of suspension bearing						D
A	RR3	B	SP68	C	SP50	D	SP57
392	No. of PB cylinders in MEMU MC						B
A	2	B	4	C	6	D	8
393	parking brakes are provided in MC for wheel no						C
A	1 & 4	B	5 & 8	C	A & B	D	A or B
394	torque value setting of axle locking bolt in kgm						D
A	6 -8	B	8 – 10	C	10 – 12	D	12 - 14
395	torque value setting of gear case C clamp bolt in Kgm						B
A	45-50	B	50-55	C	55-60	D	60-65
396	torque value setting of axle cap bolt in Kgm						C
A	60-62	B	58-60	C	62-64	D	56-58
397	torque value setting of gear case top bolt in Kgm						A
A	97-99	B	75-85	C	65-70	D	62-64
398	what is the min.permissible clearance of suspension bearing						C
A	0.455mm	B	0.255mm	C	0.355mm	D	0.555mm
399	what is the max.permissible clearance of suspension bearing						D
A	1.450mm	B	1.50mm	C	0.655	D	1.727mm
400	what is the min.permissible lateral clearance of suspension bearing						A
A	1.587mm	B	1.8mm	C	2.0mm	D	2.2mm
401	what is the max.permissible lateral clearance of suspension bearing						B
A	7.0mm	B	8.175mm	C	6.5mm	D	9.0mm
402	How much voltage is required for load testing of traction motor						B
A	60	B	50	C	40	D	65
403	capacity of shock absorber used in MC in kg						D
A	600	B	700	C	800	D	900
404	capacity of shock absorbers used in TC in kg						A

A	600	B	700	C	800	D	900	
405	How many shock absorber are provided in MEMU MC/TC							B
A	2	B	4	C	6	D	8	
406	max allowable flat tyre in mm							C
A	40	B	45	C	50	D	55	
407	what is the stroke of brake cylinder in mm							A
A	40	B	45	C	50	D	55	
408	what is the k value of new gear wheel in mm							C
A	267.55mm	B	267.65mm	C	267.80mm	D	267.75mm	
409	what is the condemn k value limit of gear wheel							A
A	267.55mm	B	267.65mm	C	267.80mm	D	267.75mm	
410	what is the periodicity months of UT schedule in MCS/RJY							C
A	4	B	6	C	9	D	12	
411	How many brake blocks are provided in MC							C
A	8	B	12	C	16	D	20	
412	How many brake blocks are provided in TC							C
A	8	B	12	C	16	D	20	
413	How many brake cylinders are provided in TC							A
A	4	B	8	C	12	D	16	
414	How many brake cylinders are provided in MC							B
A	4	B	8	C	12	D	16	
415	Capacity of air spring suspension bellow in MC in KN							D
A	120	B	140	C	160	D	180	
416	Capacity of air spring suspension bellow in TC in KN							B
A	120	B	140	C	160	D	180	
417	how many vertical dampers are provided in air spring suspension MC							B
A	3	B	4	C	5	D	6	
418	how many vertical dampers are provided in air spring suspension TC							B
A	3	B	4	C	5	D	6	
419	How many horizontal dampers are provided in air spring suspension MC							B
A	2	B	4	C	6	D	8	
420	How many horizontal dampers are provided in air spring suspension TC							B
A	2	B	4	C	6	D	8	
421	Max permissible speed of MEMU train in KMPH							C
A	90	B	95	C	100	D	105	
422	Max permissible speed of MEMU train in KMPH if one air spring is isolated							D
A	90	B	85	C	70	D	60	
423	how many colour codes are given to the helical springs according to their strength							B
A	2	B	3	C	4	D	5	
424	what are colour bands are given to helical springs according to their strength							D
A	Green	B	Blue	C	Yellow	D	All	
425	new dimension of bogie transom noses							A
A	241.506mm	B	243.0mm	C	245.0mm	D	246.0mm	
426	Condemning dimensions of bogie transom noses							B
A	241.506mm	B	243.5mm	C	245.0mm	D	246.0mm	
427	How many mounting pads are used in MEMU motor coach							C
A	2	B	3	C	4	D	5	
428	axle journal dia. of MC							B
A	130mm	B	140mm	C	150mm	D	160mm	

429	lubricant used in gear wheel				C		
A	SP-150	B	RR3 grease	C	servocoat -170T	D	SP-57
430	what is the gear ratio of MEMU MC				B		
A	20:90	B	20:91	C	20:92	D	20:93
431	material used in top and bottom axle bearing				C		
A	brass	B	gun metal	C	phosphorus bronze	D	bronze
432	max oil capacity of a sump(axle cap) in Litres				B		
A	2	B	2.5	C	3	D	3.5
433	How many equilising stays are provided in MEMU MC/TC				B		
A	2	B	4	C	6	D	8
434	How many swing links are provided in MEMU MC/TC				C		
A	4	B	8	C	16	D	24
435	height of rail guard in mm				A		
A	110-114	B	115-120	C	121-124	D	125-129
436	height of cattle guard to rail in mm				A		
A	200±15	B	210±15	C	220±15	D	230±15
437	length of the MEMU coach mm				A		
A	20726	B	20780	C	21000	D	20800
438	height of the MEMU coach mm				B		
A	3820	B	3810	C	3815	D	3825
439	track gauge in mm				B		
A	1876	B	1676	C	1875	D	1672
440	height of coupler centre to rail level in mm				A		
A	1030+0-15	B	1035+0-15	C	1040+0-15	D	1045+0-15
441	oil capacity of side bearer in TC in Litres				C		
A	2	B	3	C	1	D	4
442	oil capacity of side bearer in MC in L				C		
A	2	B	3	C	1.5	D	4
443	oil capacity of dash pot				C		
A	2	B	3	C	1.75	D	4
444	dia of MC hanger pin new in mm				C		
A	50	B	40	C	45	D	50
445	Condemn dia of MC hanger pin in mm				D		
A	50	B	40	C	45	D	43.5
446	dia of MC hanger pin new in mm				C		
A	50	B	40	C	34	D	50
447	Condemn dia of MC hanger pin in mm				D		
A	50	B	40	C	45	D	32.5
448	bogie to body clearance in MEMU MC (AS) in mm				A		
A	145±3	B	148±3	C	142±3	D	142±3
449	bogie to body clearance in MEMU TC (AS)				C		
A	145±5	B	125±5	C	135±5	D	155±5
450	bogie to body minimum clearance in MEMU MC in mm				D		
A	144	B	146	C	145	D	143
451	bogie to body minimum clearance in MEMU TC in mm				A		
A	130	B	146	C	145	D	143
452	If traction motor No. 4 is grounded, which of the following Relay will act				Ans. C		
A	OL 1&2	B	OL 3&4	C	EFRP	D	EFRA-II
453	Auxiliary Compressor is a				Ans. A		

A	DC Motor	B	Single phase AC motor	C	3phase AC motor	D	None of these	
454	KF-1 is a							Ans.A
A	Radiator cooling fan motor	B	Contactora	C	Changing over switch	D	Rectifier cooling fan motor	
455	Voltage rating of 4601 type traction motor in EMU/MEMU is							Ans.B
A	575V	B	535V	C	635V	D	475V	
456	MCP motor is a							Ans.A
A	120 V DC Motor	B	144 v AC Motor	C	266 V AC Motor	D	230 V AC Motor	
457	Displacement in LPM of Main compressor is							Ans.A
A	1000	B	750	C	1800	D	1500	
458	Lubricating oil used for Kirloskar make main compressor 3HC-55							Ans.A
A	SS-68	B	SAE 120	C	SS-100	D) SAE 150	
459	Current rating of Rectifier fan motor is							Ans.B
A	10 A	B	4.5 A	C	7 A	D	15 A	
460	Radiator fans not working would result in acting of _____							Ans.B
A	RFAR	B	TTR	C	CBAR	D	SR	
461	Condemn diameter of commutator for TM make 4601 BX is							Ans.D
A	310 mm	B	325.5 mm	C	320 mm	D	305 mm	
462	Diameter of a new commutator for TM make C1005 TM is							Ans.A
A	315 mm	B	335 mm	C	320 mm	D	300 mm	
463	Condemn diameter of commutator for TM make C1005 TM is							Ans.C
A	315 mm	B	335 mm	C	306 mm	D	310 mm	
464	One hour rating of TM make 4601 is							Ans. B
A	227 kw	B	187 kW	C	250 kW	D	150 KW	
465	How much voltage is required for load testing of traction motor							B
A	60	B	50	C	40	D	65	
466	In MEMU, direction of TM is changed by							B
A	Changing Armature current	B	Changing field current	C	By applying weak field	D	With permanent field diverter	
467	What is the continuous rating voltage of MEMU Traction Motor of 4601 and 4303BY?							Ans. C
A	500vDC	B	550VDC	C	535vdc	D	560VDC	
468	What is the continuous rating voltage of MEMU Traction Motor of C1005 TM?							Ans. D
A	535VAC	B	455VDC	C	463vDC	D	563vdc	
469	How many Traction Motors are available in a Motor Coach?							Ans. B
A	8	B	4	C	6	D	12	
470	The type of Traction Motor NOT used in MEMU?							Ans. D
A	4601AZ	B	4601BZ	C	4601BY	D	4601CX	
471	The limiting temperature of H class insulation?							Ans. A
A	180Degrees	B	Class200	C	Class 220	D	Class150	
472	What is the insulation class of 4601 Traction Motor field winding?							Ans. B
A	B	B	F	C	H	D	C	
473	The limiting temperature of F class insulation?							Ans. D
A	105Degrees C	B	150Degrees C	C	145Degrees C	D	155Degrees C	
474	Number of brush holders in a Traction Motor of MEMU is?							Ans. A
A	4	B	8	C	12	D	16	
475	Number of carbon brushes in a traction Motor of MEMU is?							Ans. C
A	16	B	4	C	8	D	12	
476	What type of the brush grades used in 4601 Traction Motor?							Ans. D
A	EG14D(I)	B	E88X(I)	C	EG7097	D	All of these	
477	What is the length of carbon brush new of 4601 TM?							Ans. D
A	50mm	B	45mm	C	55mm	D	60mm	

478	What is the length of carbon brush condemn of 4601 TM						Ans.D
A	23mm	B	36mm	C	53mm	D	32 mm
479	What is the length of new carbon brush of 4303 BY?						Ans. C
A	54mm	B	40mm	C	45mm	D	60mm
480	What is the length of condemn carbon brush of 4303 BY?						Ans. C
A	30mm	B	35mm	C	25mm	D	40mm
481	What is the length of carbon brush new C1005 TM?						Ans. B
A	60mm	B	55mm	C	45mm	D	25mm
482	What is the length of carbon brush condemn of C1005 TM?						Ans. B
A	45mm	B	25mm	C	35mm	D	55mm
483	What is the clearance between brush holder and commutator of 4601 Traction Motor?						Ans. A
A	1.62 to 3.2mm	B	1.60 to 3.0mm	C	1.52 to 3.0mm	D	1.52 to 3.2mm
484	What is permissible brush holder spring tension of a 4601 Traction Motor?						Ans. D
A	2.7-3.55 Kg	B	2.9-3.55 Kg	C	2.5-3.65 Kg	D	2.7-3.65 Kg
485	What is the gap between brush gear to arc horn?						Ans. C
A	10to11mm	B	12to13mm	C	11 to 12 mm	D	13to14mm
486	What type of bearings used in 4601 traction motor armature Pinion End (PE)?						Ans. D
A	NU320M/C4	B	NU326M/C6	C	NU306M/C2	D	NU326M/C4
487	What type of bearings used in 4601 traction motor armature commutator End (CE) ?						Ans.D
A	NUP316	B	NUP314	C	NUP312	D	NUP318
488	What type of grade used in earth return brush?						Ans. C
A	BE14Z1	B	CMIS	C	A & B	D	None of these
489	The size of the 4601 Traction Motor New Earth Return Brush is?						Ans. D
A	55.5mm	B	45.5mm	C	35.5mm	D	53.5mm
490	The size of the condemn Earth return brush of 4601 Traction Motor is?						Ans. A
A	30.4mm	B	32.4mm	C	36.4mm	D	34.4mm
491	The total Weight of 4601 Traction Motor complete with gear and Gear case is?						Ans. C
A	2045kg	B	2040kg	C	2035kg	D	2030kg
492	The total Weight of 4601 Traction Motor armature is?						Ans. A
A	520kg	B	480kg	C	500kg	D	530kg
493	The total Weight of 4303BY Traction Motor armature is?						Ans. D
A	730kg	B	740kg	C	720kg	D	710kg
494	The total Weight of 4601 Traction Motor pinion is?						Ans. D
A	07kg	B	06kg	C	08kg	D	09kg
495	The total Weight of 4303BY Traction Motor pinion is?						Ans. C
A	16kg	B	10kg	C	12kg	D	14kg
496	What type of grease used in 4601 Traction armature bearings?						Ans. D
A	Esso Andok-BR	B	Lithon-3	C	Servogem RR3	D	All of these
497	What is the Torque spanner setting of 4601 Traction Motor Main pole bolt (for2 bolt fitting) ?						Ans.B
A	36-41KG.m	B	40-42KG.m	C	30-32KG.m	D	24-27KG.m
498	What is the Torque spanner setting of 4303BY Traction Motor Main pole bolt?						Ans. C
A	24-27KG.m	B	30-32KG.m	C	22-26KG.m	D	36-41KG.m
499	What is the Torque spanner setting of 4601 Traction Motor Main pole bolt (for3 bolt fitting) ?						Ans. D
A	22-26KG.m	B	36-41KG.m	C	24-27KG.m	D	28-32KG.m
500	What is the Torque spanner setting of 4601 Traction Motor compole bolt? (for2 bolt fitting)						Ans. B
A	40-42KG.m	B	30-32KG.m	C	32-36KG.m	D	24-27KG.m
501	What is the Torque spanner setting of 4601 Traction Motor com pole bolt? (for3 bolt fitting)						Ans. B
A	30-32KG.m	B	25-27KG.m	C	40-42KG.m	D	28-32KG.m

502	What is the Torque spanner setting of 4303BY Traction Motor compole bolt?						Ans. A
A	22-26KG.m	B	30-32KG.m	C	25-27KG.m	D	28-32KG.m
503	What is the insulation class of 4303BY Armature and field winding?						Ans. A
A	Class 200	B	Class180	C	Class150	D	Class 220
504	What is the Gear ratio of pinion and bull gear of Traction Motor of MEMU?						Ans. A
A	20:91	B	20:19	C	91:20	D	91:02
505	What is the Gear ratio of pinion and bull gear of Traction Motor of MEMU?						Ans. A
A	_1:4.55	B	_1:3.55	C	_1:5.55	D	_1:6.55
506	What is the insulation class of 4601 Armature?						Ans. C
A	H	D	F	C		D	
507	What type of welding done to The armature equalizer coil leads to the commutator risers?						Ans. C
A	Butt	B	MIG	C	TIG	D	spot
508	The Traction Motor commutator outer mica V- ring is protected with?						Ans. B
A	Insulation tape	B	anti-creepage PTFE tape.	C	A & B	D	None of these
509	The function of the commutator in DC Motor is?						Ans. C
A	to Develop a continuous torque	B	unidirectional torque	C	A & B	D	None of these
510	The function of arcing horns in a traction motor is to minimize the damage of ?						Ans. C
A	Field	B	Interpoles	C	armature	D	Carbon brushes
511	The pinion of the traction motor is made of?						Ans. D
A	Alloy steel	B	Toolsteel	C	Stainless steel	D	High speed carbon steel
512	The K value of Traction Motor pinion should not less than						Ans.C
A	54.40mm	B	54.88mm	C	54.48mm	D	54.43mm
513	The numbers of teeth of a pinion of a traction motor?						Ans. C
A	22teeth	B	24teeth	C	20teeth	D	26teeth
514	What type of cooling used in Traction Motor of a MEMU?						Ans. C
A	Forced air	B	A & C	C	Self ventilated	D	None of these
515	In 4601 Traction Motor The Insulation resistance to be checked with how many volts megger ?						Ans. A
A	1000V	B	500v	C	250v	D	1500V
516	Tan delta test is to measure insulation between?						Ans. C
A	Interpole to armature winding	B	Filed winding to inter pole	C	Armature winding to armature shaft	D	Armature winding to field winding
517	The clearance between new carbon brush and the brush holder is not grater than ?						Ans.
A	1.5mm	B	2.5mm	C	3.5mm	D	0.5mm
518	What percent is the pinion bedding is required to fitment of pinion on shaft?						Ans. A
A	90% above	B	80% above	C	85% above	D	60% above
519	What is the gap between the mounting pad liners plates of 4601 Traction motor?						Ans. B
A	240.3 to242.06mm	B	241.3 to242.06mm	C	240.3 to241.06mm	D	240.3 to243.06mm
520	The magnetic frame of Traction Motor is made of?						Ans. A
A	High permeability cast steel_	B	High speed carbon steel	C	Alloy steel	D	Stainless steel
521	The traction motor Gear case is made of						Ans. D
A	Alloy steel plate	B	High speed carbon steel	C	High permeability cast steel_	D	rolled steel plate.
522	Backlash between the pinion and gear wheel of 4303BY traction motor is?						Ans.D
A	0.20 – 1.2mm	B	0.15 – 1.2mm	C	0.15 – 1.2mm	D	0.25 – 1.2mm
523	Total Number of air filter used in MEMU for traction Motor is?						Ans. D
A	12	B	18	C	20	D	16
524	Ultrasonic test is carried in armature shaft of a traction motor for to find out?						Ans. B
A	Hardness	B	internal flaws	C	A & B	D	None of these
525	Zyglo test is to carry out of a pinion of the Traction Motor to detect the?						Ans. B

A	Hardness	B	surface crack	C	A & B	D	None of these	
526	Main Compressor of MEMU is what type of DC Motor?							Ans. C
A	Shunt	B	Compound	C	series	D	None of these	
527	The Motor working according to principle Of?							Ans. B
A	Flemings right hand rule	B	Flemings left hand rule	C	A& B	D	None of these	
528	What is the Main compressor rating ?							Ans. A
A	12.5KW	B	10KW	C	15KW	D	20KW	
529	How many poles in Main compressor?							Ans. C
A	08	B	02	C	04	D	06	
530	How many inter poles in Main compressor?							Ans. C
A	02	B	08	C	04	D	06	
531	How many numbers of brush holders in a main compressor?							Ans. B
A	06	B	08	C	10	D	04	
532	How many Numbers of Brushes used in a CP?							Ans. A
A	08	B	04	C	06	D	10	
533	The Main compressor in a MEMU is a?							Ans. A
A	3 cylinder 2stage	B	3 cylinder 3stage	C	2 cylinder 3stage	D	2 cylinder 2stage	
534	The LP safety valve of a main compressor is blown at ?							Ans. C
A	4.5kg/cm2	B	5.5kg/cm2	C	3.5kg/cm2	D	2.5kg/cm2	
535	What is the recommended oil to add in the LG make compressor?							Ans. C
A	SERVO PRESS68	B	SERVO PRESS100	C	SERVO PRESS150	D	SERVO PRESS250	
536	What is the recommended oil to add in the KPC make compressor?							Ans. B
A	SS88	B	SS68	C	SS58	D	SS38	
537	Which relay acts when earth fault occurs in a Main compressor?							Ans. D
A	OL5	B	OLP	C	EFRP	D	EFRA11	
538	Battery supply is used to start?							Ans. B
A	CP	B	MCPA	C	A & B	D	Non of these	
539	What is the Input voltage of aux rectifier?							Ans. A
A	141Vac	B	131Vac	C	161Vac	D	181Vac	
540	What is the Output voltage of aux rectifier?							Ans. C
A	140V DC	B	130V DC	C	110V DC	D	120V DC	
541	What is the minimum voltage required to start Aux- compressor?							Ans.D
A	75V DC	B	105V DC	C	95V DC	D	85V DC	
542	What is the Auxiliary compressor closing contactor?							Ans. D
A	CC1	B	CC3	C	CC4	D	CC2	
543	What is the Main compressor closing contractor?							Ans. C
A	CC2	B	CC3	C	CC1	D	CC4	
544	Main compressor is protected from positive side with how many amps fuse?							Ans.
A	160A	B	150A	C	155A	D	165A	
545	The oil pump (OP) of MEMU is what type of motor?							Ans. A
A	Induction motor	B	DC Series	C	DC shunt	D	None of these	
546	What is The function of OIL pump of MEMU?							Ans. B
A	Cooling Rectifier	B	Circulate the Transformer oil	C	Cooling Radiator	D	None of These	
547	What is the rating of a Oil Pump Motor?							Ans. C
A	1.0HP	B	2.5HP	C	1.5 HP	D	0.5HP	
548	What is the rating of a Radiator cooling fan?							Ans. D
A	1.0HP	B	1.5HP	C	2.0HP	D	0.5HP	
549	What is the rating of a Rectifier cooling fan?							Ans. B

A	1.5HP	B	1.0HP	C	0.5HP	D	2.5HP	
550	The Oil Pump Motor phase side protected with how many amps fuse ?							Ans.A
A	15A	B	20A	C	06A	D	10A	
551	The Radiator cooling fan Phase side protected with how many amps fuse?							Ans. B
A	10A	B	5A	C	15A	D	20A	
552	The rectifier cooling fan phase side protected with how many amps fuse?							Ans. C
A	15A	B	05A	C	10 A	D	2.5A	
553	The Oil Pump Motor and rectifier cooling fan protected from neutral side with how many amps fuse?							Ans. D
A	16A	B	64A	C	10A	D	32 A	
554	The radiator cooling fan motors protected_neutral side with how many amps common fuse ?							Ans. B
A	10A	B	16A	C	20A	D	32A	
555	Aux 1 winding of 266 Vac is supply to ?							Ans. D
A	OP	B	KF1 &2	C	RF	D	All of these	
556	Where the aux compressor is located?							Ans. D
A	LT compartment	B	Under frame	C	Cab	D	HT compartment	
557	The Oil pump motor bearings are lubrication with?							Ans. D
A	Greasing	B	SS68	C	SP150	D	transformer oil	
558	What type of number bearings used in The Oil pump of MEMU ?							Ans. A
A	6305	B	6306	C	6204	D	6303	
559	What type of number bearings used in Rectifier cooling fan of MEMU?							Ans. B
A	6305	B	6306	C	6303	D	6204	
560	The temperature of the Rectifier should not raise more than?							Ans. C
A	75 Degree C	B	70 Degree C	C	65 Degree C	D	85 Degree C	
561	What is The function of RF in a MEMU Motor coach?							Ans. C
A	Cooling TFP OIL	B	Cooling Radiator	C	Cool the silicon diodes	D	Cooling TM	
562	What is the capacitance of capacitor of oil pump in MEMU motor coach ?							Ans. D
A	20mfd	B	30mfd	C	60mfd	D	40mfd	
563	If oil pump not working transformer temperature will raise and which really will act?							Ans. D
A	CBR	B	AAR	C	LTR	D	TTR	
564	Air flow relay RFR is ensuring the working of?							Ans. A
A	RF	B	KF	C	OP	D	MCP	
565	Auxiliary supply rectifier (ASR) provided to convert 141V DC to 110 V DC for the working of?							Ans. C
A	MACP	B	RF	C	MCP	D	OP	
566	DC series motor is used for Traction purpose because?							Ans. B
A	High speed	B	High Starting Torque	C	Low Starting Torque	D	Constant Torque at all speeds	
567	What is the purpose of inter pole in a traction motor?							Ans. B
A	To reverse the direction of motor	B	To avoid bad commutation	C	To divert field current	D	none	
568	What is The number of copper segments of a 4303BY Traction Motor armature?							Ans. D
A	218	B	222	C	214	D	216	
569	Safety items can be procured without finance vetting up to a value of							D
A	2.5 Lakh	B	5 lakh	C	8 Lakh	D	10 Lakh	
570	Non-Safety items can be procured without finance vetting up to a value of							A
A	2.5 Lakh	B	5 lakh	C	8 Lakh	D	10 Lakh	
571	A SrDEE can sign NS indent up to a value of							D
A	2.5 Lakh	B	5 lakh	C	10 Lakh	D	15 Lakh	
572	How many digits will be there in a PL Number							B
A	6	B	8	C	9	D	7	
573	Stocked items can be drawn by submitting -----requisition							C

A	S1302	B	S1302A	C	S1313	D	S1313A	
574	NS indent of value Rs 15000 is to be submitted on							B
A	S1302	B	S1302A	C	S1313	D	S1313A	
575	In MCS/RJY, transformer oil is							A
A	Stocked item	B	Non stocked item	C	Imprest item	D	None	
576	First two digits in PL number indicates							A
A	Type of coach	B	Type of department	C	Safety/Non safety	D	none	
577	Full form of AAC							B
A	Actual anticipated credit	B	Anticipated annual consumption	C	Actual annual consumption	D	Actual annual credit	
578	In MCS/RJY, Pantograph is							A
A	Stocked item	B	Non stocked item	C	Imprest item	D	None	
579	In MCS/RJY, main compressor is							B
A	Stocked item	B	Non stocked item	C	Imprest item	D	None	
580	Full form of PAC							B
A	Patent arrangement certificate	B	Proprietary article certificate	C	Proprietary arrangement certificate	D	Patent article certificate	
581	Full form of SOP							A
A	Schedule of powers	B	Schedule of procedures	C	Schedule of patents	D	Schedule of practices	
582	Full form of IMMS							A
A	Integrated Material management system	B	Integrated Material management software	C	Indianrailway Material management system	D	Institute of Material management system	
583	Stores software presently used is							A
A	IMMS	B	MMIS	C	IRPSM	D	SPARROW	
584	Incoming supply to MCS substation is							Ans. A
A	11KV	B	25KV	C	33KV	D	132KV	
585	Generator available in MCS is of capacity							Ans. B
A	500KVA	B	250KVA	C	125KVA	D	50KVA	
586	Capacity of Baking oven available in MCS is							Ans. C
A	10KW	B	20KW	C	40KW	D	80KW	
587	Capacity of high vacuum transformer oil filtration plant is							Ans. D
A	2500LPM	B	2500LPH	C	4500LPM	D	4500LPH	
588	MEMU BPC is valid for ___ km							Ans. B
A	2500	B	3500	C	3200	D	3000	
589	Total area of MCS is nearly							Ans. B
A	20 acres	B	25 acres	C	30 acres	D	35 acres	
590	Type of fire extinguisher used in MEMU coaches is of type							Ans. C
A	CO2	B	Foam	C	DCP	D	None of the above	
591	Trip, IA, IC , POH schedules periodicity will be as per							Ans. B
A	RDSO SMI 31	B	RDSO SMI 37	C	RDSO Modification 31	D	RDSO Modification 37	
592	Must change items of MEMU coaches periodicity will be as per							Ans. A
A	RDSO SMI 31	B	RDSO SMI 37	C	RDSO Modification 31	D	RDSO Modification 37	
593	How many fire extinguishers will be provided in a 12 car MEMU rake							Ans. C
A	3	B	6	C	9	D	12	
594	Periodicity of IA schedule is							Ans.A
A	45 days	B	40 days	C	60 days	D	30 days	
595	Periodicity of POH schedule for MEMU							Ans.A
A	18 months	B	24 months	C	12 months	D	20 months	
596	Tare weight of MEMU MC is about							Ans. A
A	60T	B	30 T	C	90 T	D	50 T	

597	Instrument used to measure contact resistance						Ans.C
A	Whetstone bridge	B	Multi meter	C	Micro ohmmeter	D	Tongue meter
598	Ideal brake power applied on coach is approx ___% of tare weight						Ans.D
A	10	B	20	C	30	D	40
599	Maximum Operating speed of EMU/MEMU is						Ans.A
A	100 Km/h	B	90 km/h	C	120 km/h	D	110 km/h
600	Which energy is used in Ultrasonic testing						D
A	Light	B	Mechanical	C	Electrical	D	Sound
601	18	How many techniques are there is UST					D
A	1	B	2	C	3	D	4
602	Which technique is used for finding flaws at wheel seat area						B
A	Far end scanning	B	Near end low angle	C	Trace delay	D	Hide angle
603	Frequency of ultrasonic sound is						C
A	Less than 20 Hz	B	20 to 20000 Hz	C	More than 20000Hz	D	None
604	Which test is more suitable for surface cracks						B
A	MPT	B	DPT	C	UST	D	DGA
605	Full form of DPT is						B
A	Defect path test	B	Dye penetrant test	C	A & B	D	None
606	Which test is more suitable for sub surface cracks						B
A	DPT	B	MPT	C	Zyglo	D	UST
607	Full form of MPT is						C
A	Minimum path test	B	Micro particle test	C	Magnetic particle test	D	all
608	Instrument used for MPT is						A
A	Yoke magnet	B	Electro magnet	C	Permanent magnet	D	None
609	Which test is done for finding cracks on TM Pinion						C
A	DPT	B	MPT	C	Zyglo	D	UST
610	Which solution is used in zygle testing						B
A	Red type	B	Fluorescent Liquid penetrant	C	A & B	D	None
611	Test for finding internal cracks of TM shaft is						D
A	DPT	B	MPT	C	Zyglo	D	UST
612	Full form of DGA is						A
A	Dissolved gas analysis	B	Diluted gas analysis	C	Direct gas analysis	D	None
613	Test for finding gases in transformer oil is						C
A	MPT	B	BDV	C	DGA	D	Zyglo
614	Instrument used for DGA						B
A	Gas analyser	B	Gas chromatography	C	Gas instrument	D	Gas regulator
615	What happens if Acetylene content is more in transformer oil						B
A	Low temperature hot spot	B	Arcing	C	Strong overheating	D	None
616	What happens if CO & CO2 content is more in transformer oil						D
A	Low temperature hot spot	B	Arcing	C	Strong overheating	D	Thermal decomposition of paper insulation
617	What happens if Hydrogen content is more in transformer oil						D
A	Low temperature hot spot	B	Arcing	C	Strong overheating	D	Partial discharge
618	Important tests to be conducted on transformer oil						D
A	DGA	B	Moisture content	C	Acidity	D	All
619	Equipment used for hardness testing						D
A	Vickers hardness	B	Brinell Hardness	C	Rockwell hardness	D	All

620	Steel is an alloy of						B
A	Fe – Cu	B	Fe – C	C	Fe – Cr	D	Fe - al
621	If carbon % is more in steel						A
A	Hardness increases	B	Density increases	C	Malleability increases	D	Ductility increases
622	Which is added in steel for increasing corrosion resistance						B
A	Carbon	B	Chromium	C	Lead	D	Sulphur
623	Brass is an alloy of						B
A	Cu - Mn	B	Cu – Zn	C	Cu – Tin	D	Cu - Pb
624	Test done for finding cracks in helical springs						A
A	MPT	B	DPT	C	UST	D	Zyglo
625	Purpose of painting engineering equipment is						C
A	Avoiding corrosion	B	Decoration	C	A & B	D	None
626	Purpose of heat treatment is to improve						D
A	mechanical properties	B	Hardness	C	Strength	D	All
627	How many vendor coaches will be there in 12 Car MEMU Rake						D
A	3	B	6	C	9	D	zero
628	ALP also is required in MEMU in following case						B
A	One MC is ineffective	B	DMH is not working	C	Flasher light not working	D	EP brake is not working
629	Full form of JBT is						A
A	Joint Brake Test	B	Junction Brake Test	C	Joint Block Test	D	Junction Block Test
630	Full form of BPC is						C
A	Brake pipe copy	B	Brake pipe certificate	C	Brake power certificate	D	Brake power copy
631	PLTE means						B
A	Pressure loss test efficacy	B	Pressure loss emergency test	C	Partial loss of tractive effort	D	Pressure loss of tractive effort
632	TLC means						A
A	Traction loco controller	B	Traffic line controller	C	Traffic loco controller	D	Traction line controller
633	Following is a safety item in MEMU						D
A	Head Light	B	Flasher Light	C	Horn	D	All
634	Following is not a safety item						B
A	Wiper	B	SR	C	Horn	D	Head light
635	Fire classified in _____ groups						Ans. A
A	5	B	4	C	3	D	6
636	“C” class fire related to						Ans. C
A	Liquid fire	B	Metallic fire	C	Gas and chemical	D	electrical
637	“B” class fire related to						Ans. A
A	Liquid fire	B	Metallic fire	C	Gas and chemical	D	electrical
638	“D” class fire related to						Ans. B
A	Liquid fire	B	Metallic fire	C	Gas and chemical	D	electrical
639	“E” class fire related to						Ans. D
A	Liquid fire	B	Metallic fire	C	Gas and chemical	D	electrical
640	“A” class fire related to						Ans. b
A	Liquid fire	B	Carbonate	C	Gas and chemical	D	electrical
641	Soda acid fire extinguished is used for						Ans. B
A	A&B class	B	A class fire only	C	B class Fire only	D	B,C,D & E classes
642	Foam fire extinguished is used for						Ans. C
A	A&B class	B	A class fire only	C	B class Fire only	D	B,C,D & E classes
643	DCP fire extinguished is used for						Ans. D
A	A&B class	B	A class fire only	C	B class Fire only	D	B,C,D & E classes

644	For grounding the MEMU EAS handle should be						Ans. A
A	9 O clock position	B	6 O clock position	C	3 O clock position	D	None of these
645	What is the doubling period for bacterial population in bio toilet						Ans. A
A	30 Minutes to 16 hours	B	03 hours	C	03 hours to 16 hours	D	None of these
646	How much quantity of inoculum is charged initially in the Bio-Toilet tank						Ans. C
A	150 lts Inoculum	B	130 lts Inoculum	C	120 lts Inoculum	D	140 lts Inoculum
647	What is the frequency for doing sample testing of effluent in bio toilet						Ans. C
A	45 Days	B	06 months	C	03 months	D	02 months
648	What is the total volume of Bio-Toilet tank						Ans. B
A	300 Ltrs	B	400 Ltrs	C	350 Ltrs	D	250 Ltrs
649	What is the height of Bio-Toilet tank from Rail level						Ans. B
A	220 mm	B	225 mm	C	230mm	D	200mm
650	How choking of P-Trap is removed						Ans. C
A	Drilling Machine	B	Cutting Machine	C	Choke remover device	D	None of these
651	What is the effective volume of Bio-Toilet tank						Ans. A
A	300 Lts	B	200 Lts	C	400 Lts	D	None of these
652	Anaerobic Bacteria dominate and decomposes the matter in the form of						Ans. C
A	Liquid	B	Gasses	C	Liquid and gasses	D	None of these
653	How many days of LAP in a calendar year, a permanent/ Temporary Railway servant shall be entitled to get?						Ans. C
A	20 days	B	15 days	C	30 days	D	45 days
654	How many days of LHAP in a year, can be credited to an employee?						Ans. C
A	30 days	B	10 days	C	20 days	D	12 days
655	A female Railway employee shall be entitled to maternity leave for						Ans. D
A	135 days	B	120 days	C	90 days	D	180 days
656	For miscarriage, including abortion, what period of Maternity leave may be granted						Ans. B
A	6 weeks	B	45 days	C	7 weeks	D	43 days
657	Paternity leave is admissible with less than two surviving children for a period of						Ans. C
A	10 days	B	20 days	C	15 days	D	30 days
658	Maximum days of leave on average pay that can be accumulated is						Ans. D
A	120	B	180	C	190	D	300 days
659	LAP shall be credited to a Railway servant at the rate of						Ans. A
A	2 ½ days per month	B	3 days per month	C	2 days per month	D	1 ½ days per month
670	How many days of LHAP can be accumulated to an employee in his service life?						Ans. D
A	300 days	B	450 days	C	600 days	D	Un limited
671	A male railway servant may be granted Paternity leave having surviving children						Ans. A
A	Up to two	B	five	C	Four	D	Three
672	Study leave shall count for						Ans. C
A	Reckoning seniority	B	Reckoning increment	C	Earning LAP	D	Earning LHAP
673	Which of the following category is entitled for hospital leave?						Ans. D
A	Group 'A'	B	Group 'B'	C	Group 'C'	D	Group 'D'
674	When no leave is admissible under any other rule, the leave granted is known as						Ans. D
A	LAP	B	LHAP	C	SPL Leave	D	Extra ordinary leave
675	Maximum encashment of leave on average pay at the time of retirement						Ans. D
A	200 days	B	180 days	C	360 days	D	300 days
676	What is the maximum period of leave on Average pay at a time that a Railway servant may be granted						Ans. C
A	120 days	B	160 days	C	180 days	D	300 days

677	What is the maximum limit of Leave not due that may be granted to a permanent Rly. Servant during his entire service period						Ans. A
A	360 days	B	380 days	C	Unlimited	D	300 days
678	Within which period, Paternity Leave can be granted?						Ans. A
A	Six months	B	Three months	C	Four months	D	15days
679	Staff of which Railway are entitled to avail extra Casual leave?						Ans. C
A	SER	B	ECOR	C	NFR	D	ECR
680	Whom does the Compensatory Casual leave is admissible?						Ans. C
A	Supervisory staff	B	Group 'D' staff	C	Group 'C' & Group 'D' staff but not supervisor	D	Stenographer & Confidential Assistant
681	Commuted leave is admissible on						Ans. A
A	Medical Certificate	B	Request of an employee	C	Discretion of competent authority	D	None
682	If a Railway employee applies for a kind of leave say LAP, in advance, the competent authority may.....						Ans. C
A	Sanction as CL	B	sanction as LWP	C	refuse to sanction it	D	convert it as commuted leave
683	A Railway employee shall be granted leave of any kind for a continuous period of not exceeding.....						Ans. C
A	3 Years	B	4 years	C	5 years	D	6 years
684	Which of the following leave may be granted to a Rly. Servant, Volunteered to donate blood in Govt./Rly. Hospitals for railway employees.						Ans. A
A	Special Casual leave	B	casual leave	C	LAP	D	LHAP
685	Who is the Authority to grant study leave abroad?						Ans. A
A	Rly. Board	B	GM	C	DRM	D	CPO
686	Who is the Competent Authority to grant study leave within India?						Ans. B
A	Rly. Board	B	GM	C	DRM/CWM	D	CPO
688	As per Ohm's law						Ans. A
A	Current is proportional to Voltage	B	Current is proportional to Resistance	C	I is proportional to Time	D	None of the above
689	Resultant resistance of combination of two resistance 10Ω and 20Ω in parallel is						Ans. C
A	30Ω	B	0.15Ω	C	6.67Ω	D	10Ω
690	Resultant resistance of combination of two resistance 10Ω and 20Ω in series is						Ans. A
A	30Ω	B	0.15Ω	C	6.67Ω	D	10Ω
691	Resultant capacitance of combination of two capacitors $10F$ and $20F$ in parallel is						Ans. A
A	$30F$	B	$0.15F$	C	$6.67F$	D	$10F$
692	Resultant inductance of combination of two inductors $10H$ and $20H$ in series is						Ans. A
A	$30H$	B	$0.15H$	C	$6.67H$	D	$10H$
693	Out of following, which is electrical insulating material						Ans. D
A	Copper	B	Gold	C	Silver	D	Paper
694	Conductance is reciprocal of						Ans. A
A	resistance	B	Inductance	C	Reluctance	D	capacitance
695	Resistance of a conductor varies inversely as						Ans. B
A	Length	B	Cross sectional area	C	temperature	D	resistivity
696	With rise in temperature, resistance of conductors						Ans. A
A	Increases	B	Decreases	C	Remains same	D	First increase & then decrease

697	In a circuit, a 40Ω resistor carries a current of 4A. Voltage applied across resistor is				Ans. C
A	10V	B	0.1V	C	160V
D	100V				
698	A bulb draws 300mA when 240V is applied across it. Resistance of bulb is				Ans. C
A	400Ω	B	600Ω	C	800Ω
D	1000Ω				
699	Resistance of a circuit having two parallel branches is 12Ω . If one resistance is 18Ω , other resistance is				Ans. B
A	15Ω	B	36Ω	C	16Ω
D	24Ω				
700	Resultant of four identical resistances in parallel is 1Ω . Effective resistance if they are in series is				Ans. D
A	1Ω	B	4Ω	C	8Ω
D	16Ω				
701	Total current in circuit of two parallel branches with resistors 8Ω (Branch A) & 12Ω (Branch B) is 16A. Current in each branch is				Ans. B
A	Branch A 6.4A Branch B 6.9A	B	Branch A 6.4A Branch B 9.6A	C	Branch A 4.6A Branch B 6.9A
D	Branch A 4.6A Branch B 9.6A				
702	150Ω resistance is to be replaced. But you are having only 100Ω resistors. How you connect them to get 150Ω .				Ans. D
A	Two in parallel	B	Two in series	C	Two series one parallel
D	Two parallel one series				
703	Which of the following is applicable to both series & parallel circuits				Ans. C
A	Currents are additive	B	Voltages are additive	C	Powers are additive
D	None of the above				
704	Which of following have -ve temperature coefficient				Ans. D
A	Copper	B	Silver	C	Gold
D	Carbon				
705	Rating of fuse is expressed in				Ans. D
A	Ampere Hours	B	Ampere Volts	C	Watt hours
D	Amperes				
706	Filament of electric bulb is made of				Ans. C
A	Carbon	B	Aluminum	C	Tungsten
D	Copper				
707	Three 60W bulbs are in parallel across 60V power line. If one of the bulbs burn open				Ans. B
A	All 3 bulbs do not glow	B	Other 2 bulbs do not glow	C	All bulbs glow
D	None of the above				
708	A closed switch will have a resistance of				Ans. C
A	50Ω	B	500Ω	C	zero
D	infinity				
709	Unit of conductance is				Ans. D
A	Ohm	B	Farad	C	Tesla
D	Mho				
710	What is initial charging current of an uncharged capacitor				Ans. A
A	High	B	Low	C	Zero
D	None of the above				
711	What is final charging current of capacitor				Ans. C
A	High	B	Low	C	Zero
D	None of the above				
712	When can we say that capacitor is fully charged				Ans. B
A	Supply voltage is twice the capacitor voltage	B	Supply voltage is equal to the capacitor voltage	C	Capacitor voltage is zero
D	None of the above				
713	Which of the following is not an expression power?				Ans. D
A	$P=VI$	B	$P=I^2R$	C	$P=V^2/R$
D	$P=I/R$				
714	Which of the following statements are true?				Ans. D
A	Power is proportional to voltage only	B	Power is proportional to current only	C	Power is proportional neither to voltage nor to current
D	Power is proportional to both the voltage and current				
715	A 250V bulb passes a current of 0.3A. Calculate the power in the lamp.				Ans. A
A	75W	B	50W	C	100W
D	60W				
716	Kilowatt-hour(kWh) is a unit of?				Ans. C
A	Power	B	Current	C	Energy
D	Capacitance				
717	A current of 5A flows in a resistor of 2 ohms. Calculate the energy dissipated in 300 seconds in the resistor.				Ans. A
A	15kJ	B	15000kJ	C	1500J
D	15J				
718	Out of the following, which one is not a source of electrical energy?				Ans. C
A	Solar cell	B	Battery	C	Potentiometer
D	Alternator				

719	A bulb has a power of 200W. What is the energy dissipated by it in 5 minutes?				Ans. A
A	60KJ	B	1000J	C	60J
720	A battery converts				Ans. B
A	Electrical energy to chemical energy	B	Chemical energy to electrical energy	C	Mechanical energy to electrical energy
D	Chemical energy to mechanical energy				
721	A current of 2A flows in a wire offering a resistance of 10ohm. Calculate the energy dissipated by the wire in 0.5 hours				Ans. B
A	72Wh	B	72kJ	C	7200J
D	72kJh				
722	Which of the following motors is used in ceiling fan?				Ans. A
A	Induction motor	B	Series motor	C	Shunt
D	Universal motor				
723	PT is used for measuring				Ans. B
A	Current	B	Voltage	C	Frequency
D	Power factor				
724	Power factor of pure resistive load is				Ans. D
A	Zero	B	Leading	C	Lagging
D	Unity				
725	BY127 is				Ans. C
A	NPN transistor	B	PNP transistor	C	Diode
D	TRIAC				
726	One metric horse power is equal to				Ans. B
A	756W	B	735.5W	C	750W
D	746W				
727	One KWH is equal to				Ans. D
A	3600 J	B	36000 J	C	360000 J
D	3600000 J				
728	When DC current is passed, pure inductor acts as				Ans. B
A	Open circuit	B	Short circuit	C	High resistance
D	None of the above				
729	Number of poles in BHEL 4601 traction motor				Ans. A
A	4	B	6	C	2
D	8				
730	Florescent tube light is filled with				Ans. B
A	Mercury and Nitrogen	B	Mercury and Argon	C	Nitrogen and Argon
D	Oxygen and Argon				
731	Turns of secondary winding of step up transformer, when compared to primary winding turns are				Ans. C
A	Lower	B	Equal	C	Higher
D	None of the above				
732	Which type of motor is used in portable drilling machine?				Ans. C
A	Induction motor	B	DC series motor	C	Universal motor
D	Shaded pole motor				
733	Moving Iron volt meter reads ___ value.				Ans. B
A	Peak	B	RMS	C	Average
D	Peak to peak				
734	Dielectric strength of air is ___ kv/mm.				Ans. B
A	2.5	B	3.2	C	25
D	1				
735	Negative plate of lead acid cell is made of				Ans. B
A	Carbon	B	Lead	C	Lead peroxide
D	Cadmium				
736	Power factor is cosine of angle between				Ans. A
A	Voltage & current	B	Voltage and power	C	Current and power
D	Current and energy				
737	Number of parallel paths in wave winding				Ans. A
A	2	B	4	C	6
D	Can't say				
738	Zener diode is commonly used as				Ans. B
A	Filter	B	Voltage regulator	C	Rectifier
D	Inverter				
739	Power dissipated in pure capacitor is				Ans. D
A	Maximum	B	Infinite	C	Minimum
D	Zero				
740	If diameter of a conductor R is doubled, its resistance is				Ans. C
A	2R	B	R/2	C	R/4
D	4R				
741	Resistance of 60W, 240V lamp is				Ans. D
A	120Ω	B	240Ω	C	480Ω
D	960Ω				
742	cells are connected in series to				Ans. B

A	Increase the current output	B	Increase the voltage output	C	Decrease the internal resistance	D	Decrease the amount of charging voltage required	
743	A series motor at no load develops							Ans. D
A	Zero speed	B	Average speed	C	Rated speed	D	Infinite speed	
744	If the supply terminals of D.C shunt motor are interchanged, then							Ans. C
A	Motor will stop	B	Motor will run in same direction	C	The direction of rotation will reverse	D	Motor speed will increase	
745	Which of the following motors has high starting torque?							Ans. C
A	D.C shunt motor	B	Squirrel cage induction motor	C	D.C Series motor	D	A.C Series motor	
74A6	function of the commutator in a D.C machine is							Ans. D
A	To change alternating current to direct current	B	To improve speed	C	To improve efficiency of motor	D	To change alternating voltage to direct voltage	
747	Which of the following motors is usually used in household refrigerator?							Ans. C
A	D.C shunt motor	B	Reluctance motor	C	Single phase induction motor	D	Synchronous motor	
748	The maximum temperature permitted for class A insulation is							Ans. B
A	100 °C	B	105 °C	C	120 °C	D	155 °C	
749	An induction motor is							Ans. C
A	Self-starting with zero torque	B	Self-starting with high torque	C	Self-starting with small torque	D	Self-starting with infinite torque	
750	The maximum temperature permitted for class C insulation is							Ans. D
A	105 °C	C	120 °C	D	155 °C	D	180 °C	
751	The material used for fuse must have							Ans. B
A	Low melting point and low specific resistance	B	Low melting point and high specific resistance	C	High melting point and low specific resistance	D	Low melting point with any specific resistance	
752	The Buchhloz relay is used to protect from internal faults of							Ans. A
A	Transformer	B	Alternator	C	Transmission lines	D	DC motor	
753	It is essential that transformer oil should have no traces of moisture. The reason is that							Ans. B
A	Density of oil increases	B	Moisture reduces dielectric strength	C	Moisture reduces lubricating property	D	None of the above	
754	Which parameter is increased by step up transformer?							Ans. B
A	Current	B	Voltage	C	Frequency	D	Power	
755	Open circuit test on transformer measures							Ans. D
A	Impedance and insulation resistance	B	Voltage regulation	C	Eddy current loss	D	Core loss	
756	Insulation resistance is measured with							Ans. C
A	Ohm meter	B	Micro ohm meter	C	Megger	D	Galvanometer	
757	Insulation resistance of transformer should be							Ans. D
A	Low	B	Very low	C	Zero	D	high	
758	One Mega Ohm is equal to							Ans. C
A	10000 ohms	B	100000 ohms	C	1000000 ohms	D	10000000 ohms	
759	The scale of a moving coil meter is							Ans. C
A	Logarithmic	B	Non-linear	C	Linear	D	Uniform initially and then cramped	
760	Which of the following indicators is suitable only for direct current?							Ans. D
A	Moving iron	B	Electro-dynamic	C	Hot wire	D	Permanent magnet	
761	Two resistances of 100 ohms and 0 ohm are connected in parallel. The overall resistance will be							Ans. C
A	100 ohms	B	50 ohms	C	Zero ohms	D	None of the above	
762	Substances which are having more free electrons and offer low resistance are							Ans. A
A	Conductors	B	Insulators	C	Semi conductors	D	inductors	

763	Property of material due to which current passes through it is						Ans. A
A	Conductance	B	Malleability	C	Ductility	D	Refractive index
764	Resistance of conductors is inversely proportional to						Ans. D
A	Temperature	B	Length	C	Resistivity	D	Cross sectional area
765	Direction of DC series motor can be reversed by reversing						Ans. C
A	Armature connections	B	Field connections	C	Either A or B	D	Neither A nor B
766	Which application require very high starting torque						Ans. A
A	Locomotive	B	Lathe machine	C	Air blower	D	Centrifugal pump
767	If DC motor is given AC supply						Ans. D
A	Run at normal speed	B	Runs slowly	C	Do not run	D	Burn due to eddy currents
768	DOL starter is used for starting motors up to						Ans. B
A	2 HP	B	5HP	C	10HP	D	20HP
769	The part which is not available in AC motor is						Ans. C
A	Armature	B	Field	C	Commutator	D	Frame
770	A good dielectric material must be						Ans. A
A	Insulator	B	Conductor	C	Inductor	D	capacitor
771	A capacitor is						Ans. A
A	2 conductors separated by insulator	B	2 insulators separated by conductor	C	Two insulators	D	Two conductors
772	Capacity of capacitor bank used for power factor improvement is expressed in						Ans. B
A	KW	B	KVAR	C	KVA	D	W
773	Which type of capacitor is marked with polarity						Ans. B
A	Paper	B	Electrolytic	C	mica	D	air
774	Total deficiency or excess of electrons is called						Ans. C
A	Voltage	B	Current	C	Charge	D	Resistance
775	Which bulb gives more light						Ans. A
A	20W LED	B	20W florescent	C	20W CFL	D	20W incandescent
776	Electricity bill can be saved by maintaining						Ans. A
A	High power factor	B	Low power factor	C	Zero power factor	D	None of the above
777	Current in inductive circuit, with respect to voltage is						Ans. A
A	Lagging	B	Leading	C	In phase	D	None of the above
778	Current in capacitive circuit, with respect to voltage is						Ans. B
A	Lagging	B	Leading	C	In phase	D	None of the above
779	Current in inductive circuit, with respect to voltage is						Ans. A
A	Lagging	B	Leading	C	In phase	D	None of the above
780	Current in resistive circuit, with respect to voltage is						Ans. C
A	Lagging	B	Leading	C	In phase	D	None of the above
781	Desirable power factor is						Ans. C
A	Zero	B	0.5	C	1	D	None
782	No. of junctions in a diode						Ans. A
A	1	B	2	C	3	D	zero
783	No. of junctions in a transistor						Ans. 2
A	1	B	2	C	3	D	zero
784	IGBT full form						Ans. C
A	Integrated gate bonding transistor	B	Integrated gate bonding thyristor	C	Insulated gate bipolar transistor	D	Integrated gate bipolar transistor
785	Inverter converts						Ans. B
A	AC to DC	B	DC to AC	C	AC to AC	D	DC to DC
786	Chopper converts						Ans. D

A	AC to DC	B	DC to AC	C	AC to AC	D	DC to DC	
787	Transformer converts							Ans. C
A	AC to DC	B	DC to AC	C	AC to AC	D	DC to DC	
788	Which is more efficient heating							Ans. B
A	Resistance heating	B	Induction heating	C	Both A & B	D	None	
789	Electron possesses ____ charge							Ans. B
A	Positive	B	Negative	C	Neutral	D	None	
790	Proton possesses ____ charge							Ans. A
A	Positive	B	Negative	C	Neutral	D	None	
791	Neutron possesses ____ charge							Ans. C
A	Positive	B	Negative	C	No charge	D	None	
792	Contactless thermometer used for checking temperature of axle boxes works with							Ans. A
A	Infrared rays	B	Ultraviolet rays	C	Ultrasonic rays	D	None	
793	IC in ESMON or other electronic card stands for							Ans. B
A	Internal circuit	B	Integrated circuit	C	Internal chamber	D	Integrated chamber	
794	PCB stands for							Ans. D
A	Polymer chamber board	B	Polymer circuit board	C	Preliminary circuit board	D	Printed circuit board	
795	Units of electro motive force							Ans. A
A	Volt	B	Ampere	C	Coulomb	D	farady	
796	One unit of electrical energy equal to							Ans. A
A	1KWH	B	36 KWH	C	3600 KWH	D	360 KWH	
797	LED stands for							Ans. C
A	Light end diode	B	Luminous end diode	C	Light emitting diode	D	Luminous emitting diode	
798	____ is not a part of ESMON							Ans. D
A	Mother board	B	CT	C	PT	D	VCD	
799	SCU of ESMON stands for							Ans. C
A	Secondary calculation unit	B	Secondary circuit unit	C	Signal conditioning unit	D	Secondary conditioning unit	
800	SMPS stands for							Ans. C
A	Selective mode power supply	B	Secondary mode power supply	C	Switching mode power supply	D	None	
801	UPS stands for							Ans. B
A	Uniform power supply	B	Uninterrupted power supply	C	Underground power supply	D	None	
802	No. of interlocks in MPT							Ans. C
A	11	B	12	C	13	D	14	
803	No. of positions in MPT							Ans. D
A	1	B	2	C	3	D	5	
804	Reverser is a							Ans. A
A	EP contactor	B	EM contactor	C	Magnetic contactor	D	None	
805	Sparks comes when panto touches OHE due to							Ans. A
A	Capacitive effect	B	Inductive effect	C	Resistive effect	D	None	
806	Discharge rod is provided on OHE for discharging							Ans. A
A	Residual charge	B	110V DC	C	OHE voltage	D	None	
807	Pantograph touches ____ part of OHE							Ans. B
A	Catenary wire	B	Contact wire	C	Cantilever assembly	D	None	
808	Levelling valve is part of							Ans. A
A	Air suspension	B	EP Unit	C	Brake controller	D	Parking brake	
809	Which is harder material							Ans. A
A	Rail	B	Wheel	C	Can't say	D	None	

810	Which is harder material				Ans. B
A	Panto carbon strip	B	Contact wire	C	Can't say
D	None				
811	Contact pressure between panto & contact wire should be				Ans. B
A	6 kg/cm ²	B	7 kg/cm ²	C	8 kg/cm ²
D	9 kg/cm ²				
812	SMI stands for				Ans. B
A	Scheduled maintenance instruction	B	Standard maintenance instruction	C	Secondary maintenance instruction
D	Shed maintenance instruction				
813	RDSO stands for				Ans. D
A	Railway department safety organization	B	Railway department standard organization	C	Railway designs special organization
D	Research designs & standards organization				
814	At Railway Board level MEMU comes under _____ member				Ans. B
A	Traction	B	Rolling stock	C	Both
D	none				
815	When No. of trains are very less, OHE Voltage will be				Ans. A
A	> 25 kv	B	< 25kv	C	= 25kv
D	none				
816	Reciprocal of reactance is				Ans. C
A	Capacitance	B	susceptance	C	Conductance
D	permeance				
817	Reactance in inductor is proportional to				Ans. B
A	Resistance	B	Frequency	C	capacitance
D	none				