

IV - ELECTRICAL LOCOS

1. Define Ohm's law ?
2. What is resistance and what are the characteristics of Resistance?
3. Draw a simple electrical circuit?
4. Write the characteristics of Series connection?
5. Write the characteristics of Parallel connection?
6. Draw electrical symbols for the following
a) Resistance b) Diode c) Battery d) Dc Motor
7. What is Diode and is there any purpose of Diodes in electrical loco?
8. What is Generator and what are the main equipment in Generator?
9. What is DC Motor and what are the main equipment in DC motor?
10. What are the different purposes of Batteries in AC loco?
11. What is the minimum Battery voltage required to energise AC loco?
12. How many Batteries are provided in WAG5 loco and how were they connected?
13. How AC supply comes to locos?
14. Expand WAG?
15. Name the different types of locos available in SC Railway?
16. Whether 3Ø AC is required in AC locos ,if required how 1Ø AC converts into 3Ø AC?
17. What are the different three 3Ø auxiliaries in AC loco?
18. Which type of motors used for traction in conventional electrical locos?
19. How traction motors are mounted in AC locos?
20. How many traction motors are provided in WAG5 locos?
21. How are traction motors cooled in electrical locos?
22. What are the advantages of DC series motors?
23. What is transformer and how many types of transformers are there in electrical locos?
24. How is transformer cooling arranged in electrical locos?
25. Draw a neat layout of AC loco cab?
26. What are the safety equipment provided in AC loco?
27. What is Bogie? What are the different types of bogies used in AC locos?
28. What are the safety items provided in Bogie of a loco?
29. What is the purpose of cattle guard?
30. What are the different brake systems available in AC locos?
31. What are the main equipments of brake system?
32. By which component shall you apply brakes to stop a train?
33. How shall you apply brakes if there is no pressure in loco?
34. To create vacuum in train which component is provided in Loco?
35. What is the purpose of distributor valve in Air brake train?
36. What are the components provided for pressure storing in electrical locos?

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37. Define contactor and how many types of contactors are there in AC loco?
38. Define switch and how many types of switches are there in AC loco?
39. Which type of fire extinguishers provided in WAG 7 locos?
40. How shall you use DCP type fire extinguisher?
41. If Head lights are not working how to work the train?
42. What is the purpose of horns in locos?
43. How loco moves, write in briefly?
44. What is tap changer and how many taps are there in AC loco?
45. What are the different auxiliaries provided for cooling in electrical locos?
46. What is the range of Voltage to work an electrical loco?
47. What is the purpose of Pantograph and how it is mounted?
48. What is the main circuit breaker of AC loco and where is it provided?
49. How many types of DJ provided in AC locos and what are they?
50. To enter into the High tension compartment, what precaution shall you take?
51. What is the danger zone of OHE?
52. What is Rectifier and which type of Rectifiers are there in AC loco?
53. What is inverter?
54. What is the latest technology used in AC locos?
55. What are the different meters used in AC locos?
56. Whether pneumatic pressure required in AC loco , if required how shall the pressure build up in AC loco?
57. How loco body is mounted on bogie in WAG5, WAG7 and WAP4 locos?
58. Is there any reverser in AC loco, what is it?
59. What is step up and step down transformer and draw their symbols also?
60. What is ESMON type speedometer, if it is not working how shall you guess your train speed?

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