

## Electric Traction Important MCQ PDF BY DSR

1. Which of the following is an advantage of electric traction over other methods of traction ?

- (a) Faster acceleration
- (b) No pollution problems
- (c) Better braking action
- (d) All of these

Answer-A

2. Which of the following is the voltage for single phase A.C. system ?

- (a) 22 V
- (b) 440 V
- (c) 5 kV
- (d) 15 kV

Answer-A

3. Long distance railways use which of the following ?

- (a) 200 V D.C.
- (b) 25 kV single phase A.C.
- (c) 25 kV two phase A.C.
- (d) 25 kV three phase A.C.

Answer-B

4. The speed of a locomotive is controlled by

- (a) flywheel
- (b) gear box
- (c) applying brakes
- (d) regulating steam flow to engine

Answer-A

5. Main traction systems used in India are, those using

- (a) electric locomotives
- (b) diesel engine locomotives
- (c) steam engine locomotives
- (d) diesel electric locomotives
- (e) all of these

Answer-E

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6. **In India diesel locomotives are manufactured at**

- (a) Ajmer
- (b) Varanasi
- (c) Bangalore
- (d) Jamalpur

Answer-B

7. **For diesel locomotives the range of horsepower is**

- (a) 50 to 200
- (b) 500 to 1000
- (c) 1500 to 2500
- (d) 3000 to 5000

Answer-C

8. **\_\_\_\_\_ locomotive has the highest operational availability.**

- (a) Electric
- (b) Diesel
- (c) Steam
- (d) All of these

Answer-A

9. **The horsepower of steam locomotives is**

- (a) up to 1500
- (b) 1500 to 2000
- (c) 2000 to 3000
- (d) 3000 to 4000

Answer-A

10. **The overall efficiency of steam locomotive is around**

- (a) 5 to 10 percent
- (b) 15 to 20 percent
- (c) 25 to 35 percent
- (d) 35 to 45 percent

Answer-A

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**11. In tramways which of the following motors is used ?**

- (a) D.C. shunt motor
- (b) D.C. series motor
- (c) A.C. three phase motor
- (d) AC. single phase capacitor start motor

Answer-B

**12. In a steam locomotive electric power is provided through**

- (a) overhead wire
- (b) battery system
- (c) small turbo-generator
- (d) diesel engine generator

Answer-C

**13. Which of the following drives is suitable for mines where explosive gas exists ?**

- (a) Steam engine
- (b) Diesel engine
- (c) Battery locomotive
- (d) Any of these

Answer-C

**14. In case of locomotives the tractive power is provided by**

- (a) single cylinder double acting steam engine
- (b) double cylinder, single acting steam engine
- (c) double cylinder, double acting steam engine
- (d) single stage steam turbine

Answer-C

**15. Overload capacity of diesel engines is usually restricted to**

- (a) 2 percent
- (b) 10 percent
- (c) 20 percent
- (d) 40 percent

Answer-A

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16. In case of steam engines the steam pressure is

- (a) 1 to 4 kgf/cm<sup>2</sup>
- (b) 5 to 8 kgf/cm<sup>2</sup>
- (c) 10 to 15 kgf/cm<sup>2</sup>
- (d) 25 to 35 kgf/cm<sup>2</sup>

Answer-C

17. The steam engine provided on steam locomotives is

- (a) single acting condensing type
- (b) single acting non-condensing type
- (c) double acting condensing type
- (d) double acting non-condensing type

Answer-B

18. Electric locomotives in India are manufactured at

- (a) Jamalpur
- (b) Bangalore
- (c) Chittranjan
- (d) Gorakhpur

Answer-C

19. The wheels of a train, engine as well as bogies, are slightly tapered to

- (a) reduce friction
- (b) increase friction
- (c) facilitate braking
- (d) facilitate in taking turns

Answer-D

20. Automatic signaling is used for which of the following trains ?

- (a) Mail and express trains
- (b) Superfast trains
- (c) Suburban and Urban electric trains
- (d) All trains

Answer-B

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21. **The efficiency of diesel locomotives is nearly**

- (a) 20 to 25 percent
- (b) 30 to 40 percent
- (c) 45 to 55 percent
- (d) 60 to 70 percent

Answer-A

22. **The speed of a superfast train is**

- (a) 60 kmph
- (b) 75 kmph
- (c) 100 kmph
- (d) more than 100 kmph

Answer-D

23. **The number of passenger coaches that can be attached to a diesel engine locomotive on broadgauge is usually restricted to**

- (a) 5
- (b) 10
- (c) 14
- (d) 17

Answer-B

24. **Which of the following state capitals is not on broad gauge track ?**

- (a) Lucknow
- (b) Bhopal
- (c) Jaipur
- (d) Chandigarh

Answer-C

25. **Which of the following is the advantage of electric braking ?**

- (a) It avoids wear of track
- (b) Motor continues to remain loaded during braking
- (c) It is instantaneous
- (d) More heat is generated during braking

Answer-A