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Electric Traction MCQ Test

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Q1. What is Electrical traction?

- **A. Electrical traction is the system that uses electrical power for traction system i.e. for railways, trams, trolleys, etc.**
- B. mechanical power for traction system i.e. for railways, trams, trolleys, etc.
- C. hydrolic power for traction system i.e. for railways, trams, trolleys, etc.
- D. None of the above

Q2. _____ locomotive has the highest operational availability.

- A. Diesel
- **B. Electric**
- C. Steam
- D. None of the above

Q3. In a steam locomotive, the electric power is provided through:

- A. battery system
- B. diesel engine generator
- C. overhead wire
- **D. small turbo generator**

Q4. What are the advantages of electric traction over other methods?

- A. no pollution problems
- **B. faster acceleration**

- C. better braking action
- **D. All of the above**

Q5. At which place diesel locomotives are manufactured In India?

- A. Ajmer
- B. Jamalpur
- C. Bangalore
- **D. Varanasi**

Q6. Which of the following braking systems on the locomotives is costly ?

- **A. Regenerative braking on electric locomotives**
- B. Vacuum braking on diesel locomotives
- C. Vacuum braking on steam locomotives
- D. All braking systems are equally costly

Q7. Tractive effort is required to _____.

- A. overcome the gravity component of train mass
- B. overcome friction, windage and curve resistance
- C. accelerate the train mass
- **D. do all of the above**

Q8. A submarine while moving under water, is provided driving power through ____.

- A. diesel engines
- **B. batteries**
- C. gas turbine
- D. steam turbine

Q9. Which of the following provided Power for lighting in passenger coach, in a long distance electric train?

- A. directly through overhead electric line
- B. through locomotive
- C. through rails
- **D. through individual generator of bogie and batteries**

Q10. The coasting retardation is around ____.

- **A. 0.16 km phps**
- B. 40 km phps
- C. 16 km phps
- D. 1.6 km phps

Q11. Which of the following braking systems is used on steam locomotives ?

- **A. Vacuum system**
- B. Pneumatic system
- C. Hydraulic system
- D. None of the above

Q12. Bearings used to support axles of rolling stock are ____.

- A. Bush bearings
- B. Journal bearings
- C. Ball bearings
- **D. Roller bearings**

Q13. The efficiency of diesel locomotives is nearly ____.

- **A. 26 – 30 percent**
- B. 35 – 40 percent
- C. 50 – 55 percent
- D. 70 – 75 percent

Q14. A composite system consists of ____.

- A. a combination of diesel engine and dc series motor
- B. a combination of diesel engine and ac single phase motor
- **C. single phase power received is converted into dc or three phase power ac system**
- D. use of combination of dc and ac motors on the same locomotive

Q15. Which of the following state capitals is not on broad gauge track ?

- A. Lucknow
- B. Bhopal
- C. Jaipur
- D. Chandigarh

Q16. The rate of acceleration on sub-urban or urban services is restricted by the consideration of ____.

- A. Engine power
- B. Track curves
- C. Passenger Discomfort
- D. Track size

Q17. In case of _____ free running and coasting periods are generally long.

- A. Mainline service
- B. Urban service
- C. Suburban service
- D. All of the above

Q18. The air resistance to the movement of the train is proportional to ____.

- A. speed
- B. (speed)²
- C. (speed)³
- D. 1/speed

Q19. 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 the above

Q20. Quadrilateral speed-time curve pertains to which of the following services?

- A. Main line service
- B. Urban service
- C. Suburban service
- **D. Urban and suburban service**

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