

# RAILWAY ENGINEERING EXAM

## ELECTRICAL/ELECTRONICS TELECOMMUNICATION ENGINEERING

1. Electron has
  - (1) positive charge
  - (2) negative charge
  - (3) both positive and negative charges
  - (4) None of these
2. Which one of the following is the weakest force ?
  - (1) Nuclear
  - (2) Electro magnetic
  - (3) Gravitational
  - (4) None of these
3. Dielectric strength for air is
  - (1) 3 KV/mm
  - (2) 5 KV/mm
  - (3) 10 KV/mm
  - (4) 15 KV/mm
4. Which material has highest resistivity ?
  - (1) Wood
  - (2) Glass
  - (3) Mica
  - (4) Fused quartz
5. The commercial unit of electric energy is
  - (1) KWh
  - (2) KVA
  - (3) KVh
  - (4) None of these
6. Reciprocal of Reluctance is called
  - (1) conductance
  - (2) permeance
  - (3) resistance
  - (4) None of these
7. An inductor usually consists of a coil of wire wound over an
  - (1) ferrite core
  - (2) copper core
  - (3) aluminum core
  - (4) None of these
8. The circuit breaker device is used for
  - (1) over voltage protection
  - (2) over current protection
  - (3) power control
  - (4) None of these
9. No load test on a transformer is carried out to determine
  - (1) copper loss
  - (2) magnetising current
  - (3) magnetising current and loss
  - (4) efficiency of the transformer
10. High frequency transformers use
  - (1) aluminium core
  - (2) iron core
  - (3) Copper core
  - (4) air core
11. In three phase transformers which connection is preferred when the voltage is to be stepped down ?
  - (1) Star-Star
  - (2) Delta-Delta
  - (3) Star-Delta
  - (4) Delta-Star
12. The role of capacitor in a tube light is
  - (1) to improve voltage
  - (2) to improve current
  - (3) to improve power factor
  - (4) None of these
13. Breaking capacity of a circuit breaker is given in
  - (1) KA
  - (2) KV
  - (3) MAV
  - (4) MW
14. Load factor is the ratio
  - (1) Average load/Maximum load
  - (2) Peak load/maximum load
  - (3)  $\frac{\text{Average load}}{\text{Peak load}}$
  - (4) None of these
15. Two transformers connected in parallel will share load according to
  - (1) efficiency
  - (2) current
  - (3) per unit impedance
  - (4) None of these
16. The phase difference between the currents flowing in the primary and secondary windings of a transformer is
  - (1) 360°
  - (2) 180°
  - (3) 120°
  - (4) 90°
17. Determine the motor current in a 440V crane which hoists a load of 50KN at a uniform velocity of 0.5 m sec<sup>-1</sup> if the efficiency is 80%.
  - (1) 91A
  - (2) 81A
  - (3) 71A
  - (4) 61A
18. If 220 V, 3A alternating current is to be converted into 5V, what is the current in the secondary
  - (1) 132A
  - (2) 142A
  - (3) 150A
  - (4) 172A
19. If the voltage falls to 110V, the power of a 40W, 220V lamp decreases to
  - (1) 50W
  - (2) 40W
  - (3) 30W
  - (4) 20W
20. What maximum current can a 1ohm, 1 watt resistor withstand
  - (1) 2A
  - (2) 1A
  - (3) 0.5A
  - (4) None of these
21. Digital circuit has input and output variables as
  - (1) pulsed AC voltage
  - (2) pulsed DC voltage
  - (3) both AC and DC voltage
  - (4) None of these
22. If the output voltage changes from one level to another abruptly as in a square rectangular, triangular or saw tooth wave, it is called
  - (1) harmonic oscillator
  - (2) relaxation oscillator
  - (3) phase-shift oscillator
  - (4) None of these
23. Which oscillator has best frequency stability ?
  - (1) Rc oscillators
  - (2) Lc oscillators
  - (3) crystal oscillators
  - (4) None of these

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