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Q. ID: ITISKILL0394GS

February 2026 | **Dr. J. J. Magdum ITI college sambhajipur** | Question Paper

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Score: 26/38 (68.42%)

Code: 8553

1. Which machine converts mechanical energy into electrical energy?

A) Battery | **B) Generator (Correct)**
C) Heater | D) Iron box

2. Which is the unit of current?

A) Ampere (Correct) | B) Volt
C) Ohm | D) Watt

3. Which is the unit of resistance?

A) Ampere | B) Volt
C) Ohm (Correct) | D) Watt

4. What is the flow of electrons in any conductor?

A) Voltage | **B) Current (Correct)**
C) Resistance | D) Power

5. What is the formula for speed?

A) Distance covered/Time (Correct) | B) Change in velocity/Time
C) Distance in definite direction /Time | D) Change in momentum/Time

6. What is the unit of speed?

A) Metre/second (Correct) | B) Metre/second²
C) Metre/minute | D) Metre/hour

7. What is the formula for velocity?

A) Distance covered/Time | **B) Displacement/Time (Correct)**
C) Change in velocity/Time | D) Change of momentum/Time

8. What is the unit for velocity?

A) Metre/second (Correct) | B) Metre/second²
C) Metre/minute | D) Metre/hour

9. What is called if a body posses only magnitude or size alone?

A) Speed | B) Velocity
C) Vector quantity | **D) Scalar quantity (Correct)**

10. What is called if a body posses both magnitude and direction of velocity?

A) Speed | B) Velocity
C) Vector quantity (Correct) | D) Scalar quantity

11. What is the rate of change of displacement of a body?

A) Body at rest | B) Body at motion
C) Speed | **D) Velocity (Correct)**

12. What is called if a body does not change its position with respect to its surroundings?

A) Body at motion | **B) Body at rest (Correct)**
C) Speed | D) Velocity

13. What is called if a body changes its position with respect to its surroundings?

A) Body at rest | **B) Body at motion**
C) Speed (Incorrect) | D) Velocity

14. What is velocity of a body travels a distance of 168 metres in a line in 21 seconds?

A) 6 m/sec | **B) 8 m/sec (Correct)**
C) 10 m/sec | D) 12 m/sec

15. What is the speed of a train of 80 metre long train passes a railway station platform of 120 metres length in 20 seconds?

A) 30 km/hour | B) 32 km/hour
C) 34 km/hour | **D) 36 km/hour (Correct)**

16. What is the formula for acceleration?

A) Metre/second | **B) Metre/second² (Correct)**
C) Metre/minute | D) Metre/hour

17. What is the unit of acceleration of an object?

A) Metre/second (Incorrect) | **B) Metre/second²**
C) Metre/minutes | D) Metre/minutes²

18. What is the acceleration of a car if the speed of the car has increased from 25 km per hour to 40 km per hour in one

minute?

A) 0.059 m/sec² | B) 0.59 m/sec²
C) 0.069 m/sec² | D) 0.69 m/sec² (Incorrect)

19. What is the retardation of a car moving with a velocity of 50 km/hr is brought to rest in 45 seconds?

A) 0.40 m/sec² | **B) 0.30 m/sec²**
C) 0.20 m/sec² (Incorrect) | D) 0.10 m/sec²

20. What is the acceleration of an aeroplane taking off from landing field has to run 700 metres if it leaves the ground in 10 seconds from the start?

A) 8 metre/sec² | B) 10 metre/sec²
C) 12 metre/sec² | D) 14 metre/sec² (Incorrect)

21. What maximum height a stone will reach if it is thrown upwords with a velocity of 20m/sec?(g = 10m/sec²)

A) 10 m | **B) 20 m (Correct)**
C) 30 m | D) 40 m

22. What is the work done in unit time?

A) Energy | **B) Power (Correct)**
C) Force | D) Acceleration

23. What is the capacity of a body to do work is called?

A) Energy (Correct) | B) Power
C) Acceleration | D) Force

24. What is the ratio of power output to power input?

A) Work | B) Energy (Incorrect)
C) Efficiency | D) Acceleration

25. What is called if a force of 1Newton acts on a body and moves it through a distance of 1 metre?

A) 1 Joule (Correct) | B) 10 Joules
C) 1 dyne | D) 10 dynes

26. How many ergs for 1 Joule?

A) 10^3 ergs | B) 10^5 ergs
C) 10^7 ergs (Correct) | D) 10^9 ergs

27. How many newtons for 1 kilogram?

A) 981 Newtons (Incorrect) | B) 98.1 Newtons
C) 9.81 Newtons | D) 0.981 Newtons

28. How many watts for 1 horse power in metric system?

A) 725.5 watts | **B) 735.5 watts (Correct)**
C) 745.5 watts | D) 755.5 watts

29. How many watts for 1 horse power in British system?

A) 726 watts | B) 736 watts
C) 746 watts | D) 756 watts (Incorrect)

30. What is the equivalent unit for 1 horse power in metric system?

A) 75 kg.m/sec (Correct) | B) 76 kg.m/sec
C) 77 kg.m/sec | D) 78 kg.m/sec

31. What is the formula for potential energy?

A) mgh joule (Correct) | B) mgh² joule
C) 1/2 mgh joule | D) 2/3 mgh joule

32. What is the formula for kinetic energy?

A) (1/2) mv joule (Incorrect) | **B) (1/2) mv² joule**
C) (2/3) mv² joule | D) (2/3) mv joule

33. How much work done in one hour, if a pump can raise 100 liters of water through a height of 200 meters in one minutes?

A) 12 x 104 kg meter | **B) 12 x 105 kg meter**
C) 12 x 106 kg meter (Incorrect) | D) 12 x 107 kg meter

34. What is the work done, if a force of 250 newtons acted upon a body and the body has been moved through a distance of 15 metres?

A) 3720 Joules | B) 3730 Joules
C) 3740 Joules | **D) 3750 Joules (Correct)**

35. What is the potential energy, if a body of mass 250 kg is at a height of 30 metre?

A) 72.57 KJ | **B) 73.57 KJ**
C) 74.57 KJ | D) 75.57 KJ (Incorrect)

36. What is the potential energy in a body of mass 10 kg kept on the top of a pole 20 metres height?

A) 1942 Joules | B) 1952 Joules
C) 1962 Joules (Correct) | D) 1972 Joules

37. What is the work done in joules if a load of 15.5 kg is lifted through a height of 4.4 metres?

A) 639 Joules
B) 649 Joules (Incorrect)
C) 659 Joules
D) 669 Joules

38. What is the kinetic energy of a bullet of mass 5gm travels with a speed of 500 m/sec?

A) 620 Joules
B) 625 Joules (Correct)
C) 630 Joules
D) 635 Joules