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Q. ID: ITISKILL5691WZ

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April 2026 Question Paper

Duration: 120 Mins **Total Marks: 34** **ID: ITISKILL5691WZ**

Student Name: _____ Roll No: _____

1. What is the unit of speed?

A) Metre/hour
B) Metre/second
C) Metre/second²
D) Metre/minute

2. What is the formula for acceleration?

A) Metre/hour
B) Metre/second²
C) Metre/second
D) Metre/minute

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

A) 10 Joules
B) 10 dynes
C) 1 dyne
D) 1 Joule

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

A) Body at rest
B) Body at motion
C) Speed
D) Velocity

5. 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) 10 metre/sec²
B) 14 metre/sec²
C) 12 metre/sec²
D) 8 metre/sec²

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

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

7. How many ergs for 1 Joule?

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

8. What is the formula for velocity?

A) Distance covered/Time
B) Displacement/Time
C) Change of momentum/Time
D) Change in velocity/Time

9. What is the work done in unit time?

A) Acceleration
B) Power
C) Force
D) Energy

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

A) 736 watts
B) 726 watts
C) 746 watts
D) 756 watts

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

A) Energy
B) Power
C) Acceleration
D) Force

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

A) Scalar quantity
B) Vector quantity
C) Velocity
D) Speed

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

A) Velocity
B) Vector quantity
C) Speed
D) Scalar quantity

14. 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) 3740 Joules
C) 3730 Joules
D) 3750 Joules

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

A) 1962 Joules
B) 1952 Joules
C) 1942 Joules
D) 1972 Joules

16. How many newtons for 1 kilogram?

A) 98.1 Newtons
B) 0.981 Newtons
C) 9.81 Newtons
D) 981 Newtons

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

A) Body at motion
B) Velocity
C) Speed
D) Body at rest

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) 0.69 m/sec²
B) 0.059 m/sec²
C) 0.069 m/sec²
D) 0.59 m/sec²

19. What is the unit for velocity?

A) Metre/second²
B) Metre/second
C) Metre/hour
D) Metre/minute

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

A) Metre/minutes²
B) Metre/minutes
C) Metre/second²
D) Metre/second

21. 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 107 kg meter
B) 12 x 104 kg meter
C) 12 x 105 kg meter
D) 12 x 106 kg meter

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

A) 40 m
B) 30 m
C) 20 m
D) 10 m

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

A) 755.5 watts
B) 745.5 watts
C) 725.5 watts
D) 735.5 watts

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

A) 12 m/sec
B) 6 m/sec
C) 8 m/sec
D) 10 m/sec

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

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

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

A) 75.57 KJ
B) 72.57 KJ
C) 73.57 KJ
D) 74.57 KJ

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

A) Body at rest
B) Body at motion
C) Speed
D) Velocity

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

A) 0.30 m/sec²
B) 0.20 m/sec²
C) 0.40 m/sec²
D) 0.10 m/sec²

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

A) Work
B) Acceleration
C) Efficiency
D) Energy

30. What is the formula for kinetic energy?

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

31. What is the formula for speed?

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

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

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

33. What is the formula for potential energy?

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

34. 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) 32 km/hour
B) 34 km/hour
C) 30 km/hour
D) 36 km/hour