ITI Quiz - 23-Apr-2026 09:10 AM

Q. ID: ITISKILL1638KC

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Answer Key

Duration: 180 Mins **Total Marks: 34** **Q.ID: ITISKILL1638KC**

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

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

Answer: B) 73.57 KJ

2. 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

Answer: D) 36 km/hour

3. How many ergs for 1 Joule?

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

Answer: B) 10^7 ergs

4. What is the formula for speed?

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

Answer: A) Distance covered/Time

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

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

Answer: B) Efficiency

6. 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

Answer: C) 8 m/sec

7. 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) 3740 Joules B) 3750 Joules
C) 3730 Joules D) 3720 Joules

Answer: B) 3750 Joules

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

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

Answer: B) Body at rest

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

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

Answer: D) Velocity

10. 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) 0.59 m/sec²
C) 0.059 m/sec² D) 0.069 m/sec²

Answer: D) 0.069 m/sec²

11. What is the formula for acceleration?

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

Answer: C) Metre/second²

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

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

Answer: B) 75 kg.m/sec

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

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

Answer: B) 735.5 watts

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

Answer: C) 12 metre/sec²

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

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

Answer: B) Scalar quantity

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

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

Answer: B) Energy

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

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

Answer: D) Metre/second²

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

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

Answer: B) 625 Joules

19. How many newtons for 1 kilogram?

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

Answer: A) 9.81 Newtons

20. 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) 30 m
C) 20 m
D) 40 m

Answer: C) 20 m

21. What is the formula for potential energy?

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

Answer: B) mgh joule

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

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

Answer: A) 1 Joule

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

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

Answer: B) Body at motion

24. What is the formula for velocity?

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

Answer: C) Displacement/Time

25. What is the formula for kinetic energy?

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

Answer: D) (1/2) mv² joule

26. 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) 1972 Joules
D) 1942 Joules

Answer: A) 1962 Joules

27. What is the unit of speed?

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

Answer: B) Metre/second

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

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

Answer: A) 746 watts

29. What is the unit for velocity?

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

Answer: B) Metre/second

30. What is the work done in unit time?

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

Answer: B) Power

31. 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) 649 Joules
C) 639 Joules
D) 659 Joules

Answer: A) 669 Joules

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

A) 0.10 m/sec²
B) 0.40 m/sec²

C) 0.20 m/sec² D) 0.30 m/sec²

Answer: D) 0.30 m/sec²

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

Answer: A) 12 x 105 kg meter

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

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

Answer: D) Vector quantity