ITI Quiz - 24-Apr-2026 09:56 AM

Q. ID: ITISKILL5691WZ

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Answer Key

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

1. 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 Joules D) 10 dynes

Answer: A) 1 Joule

2. What is the formula for velocity?

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

Answer: C) Displacement/Time

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

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

Answer: C) Vector quantity

4. 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) 36 km/hour D) 30 km/hour

Answer: C) 36 km/hour

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

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

Answer: C) Scalar quantity

6. 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) 659 Joules D) 639 Joules

Answer: A) 669 Joules

7. 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) 0.40 m/sec²
C) 0.20 m/sec² D) 0.10 m/sec²

Answer: A) 0.30 m/sec²

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

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

Answer: D) Body at motion

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

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

Answer: A) 735.5 watts

10. 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

Answer: D) 75 kg.m/sec

11. 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

Answer: C) 12 metre/sec²

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

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

Answer: D) 625 Joules

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

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

Answer: B) Velocity

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

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

Answer: A) 20 m

15. What is the formula for speed?

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

Answer: C) Distance covered/Time

16. 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

17. What is the formula for acceleration?

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

Answer: B) Metre/second²

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

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

Answer: D) Energy

19. What is the unit of speed?

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

Answer: D) Metre/second

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

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

Answer: D) 73.57 KJ

21. What is the unit for velocity?

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

Answer: D) Metre/second

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

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

Answer: C) 8 m/sec

23. 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) 1972 Joules
D) 1962 Joules

Answer: D) 1962 Joules

24. 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) 0.069 m/sec²
C) 0.059 m/sec²
D) 0.59 m/sec²

Answer: B) 0.069 m/sec²

25. What is the work done in unit time?

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

Answer: B) Power

26. 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) 3750 Joules
B) 3740 Joules
C) 3730 Joules
D) 3720 Joules

Answer: A) 3750 Joules

27. What is the formula for kinetic energy?

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

Answer: B) (1/2) mv² joule

28. What is the formula for potential energy?

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

Answer: D) mgh joule

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

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

Answer: B) Metre/second²

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

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

Answer: A) 746 watts

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

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

Answer: A) Body at rest

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

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

Answer: D) Efficiency

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

Answer: B) 12 x 105 kg meter

34. How many ergs for 1 Joule?

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

Answer: D) 10^7 ergs