

ITI Quiz - 15-Apr-2026

09:43 AM

Q. ID: ITISKILL93698N

April 2026

Answer Key

Duration: 30 Mins

Total Marks: 25

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

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

Answer: C) Energy

2. 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/sec^2
- B) 0.069 m/sec^2
- C) 0.59 m/sec^2
- D) 0.059 m/sec^2

Answer: B) 0.069 m/sec^2

3. 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) Speed
- D) Velocity

Answer: A) Body at rest

4. 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) 3730 Joules
- C) 3750 Joules
- D) 3720 Joules

Answer: C) 3750 Joules

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

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

Answer: D) Scalar quantity

6. What maximum height a stone will reach if it is thrown upwards with a velocity of 20 m/sec ? ($g = 10 \text{ m/sec}^2$)

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

Answer: A) 20 m

7. What is the formula for velocity?

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

Answer: C) Displacement/Time

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

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

Answer: D) 1962 Joules

9. What is the unit for velocity?

- A) Metre/hour
- B) Metre/minute
- C) Metre/second
- D) Metre/second^2

Answer: C) Metre/second

10. What is the formula for potential energy?

- A) mgh^2 joule
- B) mgh joule
- C) $1/2 mgh$ joule
- D) $2/3 mgh$ joule

Answer: B) mgh joule

11. 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) $12 \times 106 \text{ kg meter}$
- B) $12 \times 104 \text{ kg meter}$
- C) $12 \times 105 \text{ kg meter}$
- D) $12 \times 107 \text{ kg meter}$

Answer: C) $12 \times 105 \text{ kg meter}$

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

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

Answer: B) 1 Joule

13. What is the unit of speed?

- A) Metre/minute
- B) Metre/second
- C) Metre/second^2
- D) Metre/hour

Answer: B) Metre/second

14. What is the formula for kinetic energy?

- A) $(2/3) mv^2$ joule
- B) $(1/2) mv^2$ joule
- C) $(1/2) mv$ joule
- D) $(2/3) mv$ joule

Answer: B) $(1/2) mv^2$ joule

15. 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) 12
metre/sec ² | B) 8
metre/sec ² |
| C) 14
metre/sec ² | D) 10
metre/sec ² |

Answer: A) 12 metre/sec²

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

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

Answer: C) 75 kg.m/sec

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

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

Answer: D) 73.57 KJ

18. 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) 36 km/hour | B) 34 km/hour |
| C) 30 km/hour | D) 32 km/hour |

Answer: A) 36 km/hour

19. What is the formula for speed?

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

Answer: D) Distance covered/Time

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

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

Answer: B) 746 watts

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

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

Answer: A) 625 Joules

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

- | | |
|------------------|----------------------------------|
| A) Metre/minutes | B)
Metre/minutes ² |
| C) Metre/second | D)
Metre/second ² |

Answer: D) Metre/second²

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

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

Answer: C) Efficiency

24. 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) 6 m/sec | D) 8 m/sec |

Answer: D) 8 m/sec

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

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

Answer: B) 669 Joules