

# ITI Quiz - 15-Feb-2026

## 07:21 AM

Q. ID: ITISKILL7203M0

January 2026

Manvi

Answer Key

Duration: 30 Mins

Total Marks: 25

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1. What is the formula for kinetic energy?

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

**Answer: A)  $(1/2) mv^2$  joule**

2. What is the formula for speed?

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

**Answer: B) Distance covered/Time**

3. 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/sec<sup>2</sup>      B) 10 metre/sec<sup>2</sup>  
C) 12 metre/sec<sup>2</sup>      D) 8 metre/sec<sup>2</sup>

**Answer: C) 12 metre/sec<sup>2</sup>**

4. What is the unit for velocity?

- A) Metre/second      B) Metre/hour  
C) Metre/second<sup>2</sup>      D) Metre/minute

**Answer: A) Metre/second**

5. What is the specific gravity of the metal, if the piece of metal weighs 150 grams in air and 125 grams in water?

- A) 25      B) 6  
C) 15      D) 10

**Answer: B) 6**

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

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

**Answer: B) Velocity**

7. What is the work done in unit time?

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

**Answer: B) Power**

8. What is the volume (V) of mercury in cm<sup>3</sup>, if mass (m) of mercury is 1 kg and density (r) is 13.6 g/cm<sup>3</sup>?

- A) 73.53 cm<sup>3</sup>      B) 73.33 cm<sup>3</sup>  
C) 73.43 cm<sup>3</sup>      D) 73.23 cm<sup>3</sup>

**Answer: A) 73.53 cm<sup>3</sup>**

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

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

**Answer: A) 735.5 watts**

10. 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/sec<sup>2</sup>      B) 0.10 m/sec<sup>2</sup>  
C) 0.20 m/sec<sup>2</sup>      D) 0.30 m/sec<sup>2</sup>

**Answer: D) 0.30 m/sec<sup>2</sup>**

11. What maximum height a stone will reach if it is thrown upwards with a velocity of 20m/sec?(g = 10m/sec<sup>2</sup>)

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

**Answer: B) 20 m**

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

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

**Answer: A) Energy**

13. How many newtons for 1 kilogram?

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

**Answer: C) 9.81 Newtons**

14. What is the unit of speed?

- A) Metre/hour      B) Metre/minute  
C) Metre/second<sup>2</sup>      D) Metre/second

**Answer: D) Metre/second**

15. What is the weight force of a car has a mass of 800 kg?(Take g = 9.81m/sec)

- A) 7848 Newton      B) 7748 Newton  
C) 7487 Newton      D) 7847 Newton

**Answer: A) 7848 Newton**

16. 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) 34 km/hour                      B) 36 km/hour  
C) 32 km/hour                      D) 30 km/hour

**Answer: B) 36 km/hour**

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

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

**Answer: B) 75 kg.m/sec**

18. What is the mass in gram, if a force of 15 dynes acting on a mass m producing an acceleration of  $2.5 \text{ cm/sec}^2$ ?

- A) 9 grams                              B) 7 grams  
C) 6 grams                              D) 8 grams

**Answer: C) 6 grams**

19. What is the formula for acceleration?

- A) Metre/hour                              B) Metre/minute  
C)  $\text{Metre/second}^2$                       D) Metre/second

**Answer: C)  $\text{Metre/second}^2$**

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

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

**Answer: C) 1 Joule**

22. 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)  $0.069 \text{ m/sec}^2$                       B)  $0.059 \text{ m/sec}^2$   
C)  $0.59 \text{ m/sec}^2$                       D)  $0.69 \text{ m/sec}^2$

**Answer: A)  $0.069 \text{ m/sec}^2$**

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

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

**Answer: A) Body at motion**

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

- A)  $\text{Metre/second}^2$                       B) Metre/second  
C) Metre/minutes                      D)  $\text{Metre/minutes}^2$

**Answer: A)  $\text{Metre/second}^2$**

25. What is the formula for velocity?

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

**Answer: C) Displacement/Time**