

# ITI Quiz - 23-Apr-2026

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Q. ID: ITISKILL7612J9

April 2026

Question Paper

Duration: 30 Mins

Total Marks: 34

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Student Name: \_\_\_\_\_ Roll No: \_\_\_\_\_

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

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

2. What is the formula for velocity?

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

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

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

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

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

5. 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)  $12 \times 10^6$  kg meter                      B)  $12 \times 10^7$  kg meter  
C)  $12 \times 10^4$  kg meter                      D)  $12 \times 10^5$  kg meter

6. 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) 30 km/hour                      B) 36 km/hour  
C) 32 km/hour                      D) 34 km/hour

7. What is the formula for potential energy?

- A) mgh joule                      B)  $\frac{1}{2}$  mgh joule  
C)  $mgh^2$  joule                      D)  $\frac{2}{3}$  mgh joule

8. What is the unit of speed?

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

9. What is called if a force of 1Newton acts on a body and

moves it through a distance of 1 metre?

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

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

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

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

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

12. What is the unit for velocity?

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

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

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

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) 12  $\text{metre/sec}^2$                       B) 14  $\text{metre/sec}^2$   
C) 8  $\text{metre/sec}^2$                       D) 10  $\text{metre/sec}^2$

15. How many newtons for 1 kilogram?

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

16. 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) 73.57 KJ                      D) 72.57 KJ

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

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

18. 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) 659 Joules  
C) 649 Joules                    D) 639 Joules

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

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

20. How many ergs for 1 Joule?

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

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

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

22. What is the formula for acceleration?

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

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

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

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

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

25. 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)  $0.59 \text{ m/sec}^2$                 B)  $0.69 \text{ m/sec}^2$   
C)  $0.059 \text{ m/sec}^2$                 D)  $0.069 \text{ m/sec}^2$

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

- A)  $0.10 \text{ m/sec}^2$                 B)  $0.40 \text{ m/sec}^2$   
C)  $0.20 \text{ m/sec}^2$                 D)  $0.30 \text{ m/sec}^2$

27. What is the formula for kinetic energy?

- A)  $(1/2) mv \text{ joule}$                 B)  $(2/3) mv \text{ joule}$   
C)  $(2/3) mv^2 \text{ joule}$                 D)  $(1/2) mv^2 \text{ joule}$

28. 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

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

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

30. What is the work done in unit time?

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

31. 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) 3750 Joules  
C) 3740 Joules                    D) 3730 Joules

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

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

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

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

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

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