

# Dr. J. J. Magdum ITI college sambhajipur

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

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|--------------|---------------|-----------------|----------|
| Student Name | Aditya Hegade | Access Code     | 3921     |
| Attempt No.  | #1            | Completion Time | 10:47 AM |
| Rank         | #4            | Total Questions | 34       |

25 SCORE

34 MAX MARKS

25 CORRECT

9 INCORRECT

### Answer Review

Q1 **INCORRECT** What is the formula for speed?

A. Distance covered/Time

B. Change in velocity/Time

C. Distance in definite direction /Time

D. Change in momentum/Time

Q2 **CORRECT** What is the unit of speed?

A. Metre/second

B. Metre/second<sup>2</sup>

C. Metre/minute

D. Metre/hour

Q3 **CORRECT** What is the formula for velocity?

A. Distance covered/Time

B. Displacement/Time

C. Change in velocity/Time

D. Change of momentum/Time

Q4 **CORRECT** What is the unit for velocity?

A. Metre/second

B. Metre/second<sup>2</sup>

C. Metre/minute

D. Metre/hour

Q5 **INCORRECT** What is called if a body posses only magnitude or size alone?

A. Speed

B. Velocity

C. Vector quantity

D. Scalar quantity

Q6 **CORRECT** What is called if a body posses both magnitude and direction of velocity?

A. Speed

B. Velocity

C. Vector quantity

D. Scalar quantity

**Q7** **CORRECT** What is the rate of change of displacement of a body?

A. Body at rest

B. Body at motion

C. Speed

D. Velocity

**Q8** **CORRECT** 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. Speed

D. Velocity

**Q9** **CORRECT** What is called if a body changes its position with respect to its surroundings?

A. Body at rest

B. Body at motion

C. Speed

D. Velocity

**Q10** **CORRECT** What is velocity of a body travels a distance of 168 metres in a line in 21 seconds?

A. 6 m/sec

B. 8 m/sec

C. 10 m/sec

D. 12 m/sec

Q11 **CORRECT** 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. 32 km/hour

C. 34 km/hour

D. 36 km/hour

Q12 **INCORRECT** What is the formula for acceleration?

A. Metre/second

B. Metre/second<sup>2</sup>

C. Metre/minute

D. Metre/hour

Q13 **INCORRECT** What is the unit of acceleration of an object?

A. Metre/second

B. Metre/second<sup>2</sup>

C. Metre/minutes

D. Metre/minutes<sup>2</sup>

Q14 **CORRECT** 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. 0.059 m/sec<sup>2</sup>

B. 0.59 m/sec<sup>2</sup>

C. 0.069 m/sec<sup>2</sup>

D. 0.69 m/sec<sup>2</sup>

Q15 **INCORRECT** What is the retardation of a car moving with a velocity of 50 km/hr is brought to rest in 45 seconds?

A.  $0.40 \text{ m/sec}^2$

B.  $0.30 \text{ m/sec}^2$

C.  $0.20 \text{ m/sec}^2$

D.  $0.10 \text{ m/sec}^2$

Q16 **CORRECT** 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.  $8 \text{ metre/sec}^2$

B.  $10 \text{ metre/sec}^2$

C.  $12 \text{ metre/sec}^2$

D.  $14 \text{ metre/sec}^2$

Q17 **CORRECT** What maximum height a stone will reach if it is thrown upwards with a velocity of 20m/sec?( $g = 10\text{m/sec}^2$ )

A. 10 m

B. 20 m

C. 30 m

D. 40 m

Q18 **CORRECT** What is the work done in unit time?

A. Energy

B. Power

C. Force

D. Acceleration

Q19 **CORRECT** What is the capacity of a body to do work is called?

A. Energy

B. Power

C. Acceleration

D. Force

Q20 **CORRECT** What is the ratio of power output to power input?

A. Work

B. Energy

C. Efficiency

D. Acceleration

Q21 **CORRECT** 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. 10 Joules

C. 1 dyne

D. 10 dynes

Q22 **CORRECT** How many ergs for 1 Joule?

A.  $10^3$  ergs

B.  $10^5$  ergs

C.  $10^7$  ergs

D.  $10^9$  ergs

Q23 **CORRECT** How many newtons for 1 kilogram?

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

Q24 **CORRECT** How many watts for 1 horse power in metric system?

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

Q25 **CORRECT** How many watts for 1 horse power in British system?

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

Q26 **CORRECT** What is the equivalent unit for 1 horse power in metric system?

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

Q27 **CORRECT** What is the formula for potential energy?

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

Q28 **CORRECT** What is the formula for kinetic energy?

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

Q29 **INCORRECT** 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.  $12 \times 104$  kg meter
- B.  $12 \times 105$  kg meter
- C.  $12 \times 106$  kg meter
- D.  $12 \times 107$  kg meter

Q30 **CORRECT** 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. 3730 Joules
- C. 3740 Joules
- D. 3750 Joules

Q31 **INCORRECT** What is the potential energy, if a body of mass 250 kg is at a height of 30 metre?

A. 72.57 KJ

B. 73.57 KJ

C. 74.57 KJ

D. 75.57 KJ

Q32 **CORRECT** 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. 1962 Joules

D. 1972 Joules

Q33 **INCORRECT** What is the work done in joules if a load of 15.5 kg is lifted through a height of 4.4 metres?

A. 639 Joules

B. 649 Joules

C. 659 Joules

D. 669 Joules

Q34 **INCORRECT** What is the kinetic energy of a bullet of mass 5gm travels with a speed of 500 m/sec?

A. 620 Joules

B. 625 Joules

C. 630 Joules

D. 635 Joules