

# Dr. J. J. Magdum ITI college sambhajipur

## ITI Quiz - 10-Feb-2026 12:34 PM

Q. ID: ITISKILL0394GS | February 2026

97.37% 37 / 38

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|--------------|-----------------------|-----------------|----------|
| Student Name | Vinayak satish wandre | Access Code     | 7937     |
| Attempt No.  | #1                    | Completion Time | 01:59 PM |
| Rank         | #1                    | Total Questions | 38       |

37 SCORE

38 MAX MARKS

37 CORRECT

1 INCORRECT

### Answer Review

Q1 CORRECT Which machine converts mechanical energy into electrical energy?

A. Battery

B. Generator ☒

C. Heater

D. Iron box

Q2 CORRECT Which is the unit of current?

A. Ampere ☒

B. Volt

C. Ohm

D. Watt

Q3 **CORRECT** Which is the unit of resistance?

A. Ampere

B. Volt

C. Ohm ☒

D. Watt

Q4 **CORRECT** What is the flow of electrons in any conductor?

A. Voltage

B. Current ☒

C. Resistance

D. Power

Q5 **CORRECT** 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

Q6 **CORRECT** What is the unit of speed?

A. Metre/second ☒

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

C. Metre/minute

D. Metre/hour

**Q7** **CORRECT** What is the formula for velocity?

- A. Distance covered/Time
- B. Displacement/Time ☒**
- C. Change in velocity/Time
- D. Change of momentum/Time

**Q8** **CORRECT** What is the unit for velocity?

- A. Metre/second ☒**
- B. Metre/second<sup>2</sup>
- C. Metre/minute
- D. Metre/hour

**Q9** **CORRECT** What is called if a body posses only magnitude or size alone?

- A. Speed
- B. Velocity
- C. Vector quantity
- D. Scalar quantity ☒**

**Q10** **CORRECT** What is called if a body posses both magnitude and direction of velocity?

- A. Speed
- B. Velocity
- C. Vector quantity ☒**
- D. Scalar quantity

**Q11** **CORRECT** What is the rate of change of displacement of a body?

A. Body at rest

B. Body at motion

C. Speed

D. Velocity ☒

**Q12** **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

**Q13** **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

**Q14** **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

**Q15** **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 ☒

**Q16** **CORRECT** What is the formula for acceleration?

A. Metre/second

B. Metre/second<sup>2</sup> ☒

C. Metre/minute

D. Metre/hour

**Q17** **CORRECT** 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>

**Q18** **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>

Q19 **CORRECT** 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.  $0.10 \text{ m/sec}^2$

Q20 **INCORRECT** 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.  $14 \text{ metre/sec}^2$

Q21 **CORRECT** What maximum height a stone will reach if it is thrown upwards with a velocity of  $20 \text{ m/sec}$  ( $g = 10 \text{ m/sec}^2$ )

A. 10 m

B. 20 m ☒

C. 30 m

D. 40 m

Q22 **CORRECT** What is the work done in unit time?

A. Energy

B. Power ☒

C. Force

D. Acceleration

Q23 **CORRECT** What is the capacity of a body to do work is called?

A. Energy ☒

B. Power

C. Acceleration

D. Force

Q24 **CORRECT** What is the ratio of power output to power input?

A. Work

B. Energy

C. Efficiency ☒

D. Acceleration

Q25 **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

Q26 **CORRECT** How many ergs for 1 Joule?

A.  $10^3$  ergs

B.  $10^5$  ergs

C.  $10^7$  ergs ☒

D.  $10^9$  ergs

**Q27** **CORRECT** How many newtons for 1 kilogram?

A. 981 Newtons

B. 98.1 Newtons

C. 9.81 Newtons ☒

D. 0.981 Newtons

**Q28** **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

**Q29** **CORRECT** How many watts for 1 horse power in British system?

A. 726 watts

B. 736 watts

C. 746 watts ☒

D. 756 watts

**Q30** **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

Q31 **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

Q32 **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

Q33 **CORRECT** 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.  $12 \times 10^4$  kg meter

B.  $12 \times 10^5$  kg meter ☐

C.  $12 \times 10^6$  kg meter

D.  $12 \times 10^7$  kg meter

Q34 **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 ☐

**Q35** **CORRECT** 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

**Q36** **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

**Q37** **CORRECT** 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 ☒

**Q38** **CORRECT** 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