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84.21% 32 / 38

Student Name	Aniket parit	Access Code	5107
Attempt No.	#1	Completion Time	02:35 PM
Rank	#18	Total Questions	38

32 SCORE

38 MAX MARKS

32 CORRECT

6 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/second²

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/second²
- 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 **INCORRECT** What is the formula for acceleration?

A. Metre/second ☐

B. Metre/second² ☒

C. Metre/minute

D. Metre/hour

Q17 **INCORRECT** What is the unit of acceleration of an object?

A. Metre/second ☐

B. Metre/second² ☒

C. Metre/minutes

D. Metre/minutes²

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/sec²

B. 0.59 m/sec²

C. 0.069 m/sec² ☒

D. 0.69 m/sec²

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 m/sec^2

B. 0.30 m/sec^2 ☒

C. 0.20 m/sec^2

D. 0.10 m/sec^2

Q20 **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 metre/sec^2

B. 10 metre/sec^2

C. 12 metre/sec^2 ☒

D. 14 metre/sec^2

Q21 **CORRECT** 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. 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 **INCORRECT** 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 **INCORRECT** 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 **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. 12×104 kg meter ☐

B. 12×105 kg meter ☐

C. 12×106 kg meter

D. 12×107 kg meter

Q34 **INCORRECT** 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