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88.24% 30 / 34

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Attempt No.	#1	Completion Time	09:31 PM
Rank	#2	Total Questions	34

30 SCORE	**34** MAX MARKS	**30** CORRECT	**4** INCORRECT

Answer Review

Q1 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

Q2 CORRECT What is the unit of speed?

- **A.** Metre/second □
- **B.** Metre/second²
- **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 INCORRECT What is the unit for velocity?

A. Metre/second

B. Metre/second²

C. Metre/minute

D. Metre/hour

Q5 CORRECT 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 CORRECT What is the formula for acceleration?

A. Metre/second

B. Metre/second²

C. Metre/minute

D. Metre/hour

Q13 CORRECT What is the unit of acceleration of an object?

A. Metre/second

B. Metre/second²

C. Metre/minutes

D. Metre/minutes²

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/sec²

B. 0.59 m/sec²

C. 0.069 m/sec²

D. 0.69 m/sec²

Q15 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/sec²

B. 0.30 m/sec² □

C. 0.20 m/sec²

D. 0.10 m/sec²

Q16 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 metre/sec²

B. 10 metre/sec²

C. 12 metre/sec² □

D. 14 metre/sec² □

Q17 CORRECT What maximum height a stone will reach if it is thrown upwords with a velocity of 20m/sec?(g = 10m/sec²)

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 INCORRECT 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. mgh² joule

C. 1/2 mgh joule

D. 2/3 mgh joule

Q28 CORRECT What is the formula for kinetic energy?

A. (1/2) mv joule

B. (1/2) mv² joule ☐

C. (2/3) mv² joule

D. (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 x 104 kg meter

B. 12 x 105 kg meter ☐

C. 12 x 106 kg meter ☐

D. 12 x 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 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

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 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 □

Q34 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