

Dr. J. J. Magdum ITI college sambhajipur

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Student Name	Ravinath Channappa awati	Access Code	1737
Attempt No.	#2	Completion Time	10:47 AM
Rank	#3	Total Questions	34

16 SCORE

34 MAX MARKS

16 CORRECT

18 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/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 **INCORRECT** What is called if a body possesses only magnitude or size alone?

A. Speed

B. Velocity

C. Vector quantity ☐

D. Scalar quantity ☒

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

A. Speed

B. Velocity

C. Vector quantity ☒

D. Scalar quantity

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

A. Body at rest

B. Body at motion

C. Speed ☐

D. Velocity ☒

Q8 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** 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/second^2 ☐

C. Metre/minute

D. Metre/hour

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

A. Metre/second ☐

B. Metre/second^2 ☐

C. Metre/minutes

D. Metre/minutes^2

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^2

B. 0.59 m/sec^2

C. 0.069 m/sec^2 ☐

D. 0.69 m/sec^2

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 m/sec^2

B. 0.30 m/sec^2 ☐

C. 0.20 m/sec^2 ☐

D. 0.10 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 metre/sec^2

B. 10 metre/sec^2

C. 12 metre/sec^2 ☐

D. 14 metre/sec^2

Q17 **INCORRECT** 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

Q18 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** How many watts for 1 horse power in British system?

A. 726 watts

B. 736 watts

C. 746 watts ☒

D. 756 watts ☐

Q26 **INCORRECT** 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 **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. 12×104 kg meter

B. 12×105 kg meter ☐

C. 12×106 kg meter

D. 12×107 kg meter

Q30 **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 ☐

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 **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 ☐