

Student: Mithun

Score: 20/25 (80.00%)

Code: 6736

1. What is the formula for speed?

- A) Distance covered/Time (Correct)**
B) Change in velocity/Time
C) Distance in definite direction /Time
D) Change in momentum/Time

2. What is the unit of speed?

- A) Metre/second (Correct)**
B) Metre/second²
C) Metre/minute
D) Metre/hour

3. What is the formula for velocity?

- A) Distance covered/Time
B) **Displacement/Time (Correct)**
C) Change in velocity/Time
D) Change of momentum/Time

4. What is the unit for velocity?

- A) Metre/second (Correct)**
B) Metre/second²
C) Metre/minute
D) Metre/hour

5. What is called if a body posses only magnitude or size alone?

- A) Speed
B) Velocity
C) Vector quantity
D) **Scalar quantity (Correct)**

6. What is called if a body posses both magnitude and direction of velocity?

- A) Speed
B) Velocity
C) **Vector quantity (Correct)**
D) Scalar quantity

7. What is the rate of change of displacement of a body?

- A) Body at rest
B) Body at motion
C) Speed
D) **Velocity (Correct)**

8. What is called if a body does not change its position with respect to its surroundings?

- A) Body at motion (Incorrect)
B) **Body at rest**
C) Speed
D) Velocity

9. What is called if a body changes its position with respect to

its surroundings?

- A) Body at rest
B) **Body at motion (Correct)**
C) Speed
D) Velocity

10. 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 (Correct)**
C) 10 m/sec
D) 12 m/sec

11. 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 (Correct)**

12. What is the formula for acceleration?

- A) Metre/second
B) **Metre/second² (Correct)**
C) Metre/minute
D) Metre/hour

13. What is the unit of acceleration of an object?

- A) Metre/second
B) **Metre/second² (Correct)**
C) Metre/minutes
D) Metre/minutes²

14. 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 (Correct)**
D) 0.69 m/sec²

15. 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 (Correct)**
C) 0.20 m/sec² (Incorrect)
D) 0.10 m/sec²

16. 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
(Incorrect)

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

- A) 10 m **B) 20 m (Correct)**
C) 30 m D) 40 m

18. What is the work done in unit time?

- A) Energy **B) Power (Correct)**
C) Force D) Acceleration

19. What is the capacity of a body to do work is called?

- A) Energy (Correct)** B) Power
C) Acceleration D) Force

20. What is the ratio of power output to power input?

- A) Work B) Energy (Incorrect)

C) Efficiency

D) Acceleration

21. What is called if a force of 1Newton acts on a body and moves it through a distance of 1 metre?

- A) 1 Joule (Correct)** B) 10 Joules
C) 1 dyne D) 10 dynes

22. How many newtons for 1 kilogram?

- A) 981 Newtons B) 98.1 Newtons
C) 9.81 Newtons (Correct) D) 0.981 Newtons

23. 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 (Incorrect)

24. How many watts for 1 horse power in British system?

- A) 726 watts B) 736 watts
C) 746 watts (Correct) D) 756 watts

25. What is the equivalent unit for 1 horse power in metric system?

- A) 75 kg.m/sec (Correct)** B) 76 kg.m/sec
C) 77 kg.m/sec D) 78 kg.m/sec