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Score: 17/25 (68.00%)

Code: 9585

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

- A) Body at rest  
C) Speed (Incorrect)

- B) **Body at motion**  
D) Velocity

2. What is the unit of speed?

- A) **Metre/second (Correct)**  
B) Metre/second<sup>2</sup>  
C) Metre/minute  
D) Metre/hour

- A) 6 m/sec  
C) 10 m/sec

- B) **8 m/sec (Correct)**  
D) 12 m/sec

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

- A) 30 km/hour  
C) 34 km/hour

- B) 32 km/hour  
D) **36 km/hour (Correct)**

4. What is the unit for velocity?

- A) **Metre/second (Correct)**  
B) Metre/second<sup>2</sup>  
C) Metre/minute  
D) Metre/hour

- A) Metre/second  
C) Metre/minute

- B) **Metre/second<sup>2</sup> (Correct)**  
D) Metre/hour

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

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

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

- A) Metre/second  
C) Metre/minutes

- B) **Metre/second<sup>2</sup> (Correct)**  
D) Metre/minutes<sup>2</sup>

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

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

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/sec<sup>2</sup>  
C) **0.069 m/sec<sup>2</sup> (Correct)**

- B) 0.59 m/sec<sup>2</sup>  
D) 0.69 m/sec<sup>2</sup>

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)**

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/sec<sup>2</sup> (Incorrect)  
B) **0.30 m/sec<sup>2</sup> (Correct)**  
C) 0.20 m/sec<sup>2</sup>  
D) 0.10 m/sec<sup>2</sup>

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

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

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

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/sec<sup>2</sup>
- B) 10  
metre/sec<sup>2</sup>
- C) 12  
metre/sec<sup>2</sup>
- D) 14  
metre/sec<sup>2</sup>  
(Incorrect)

17. What maximum height a stone will reach if it is thrown upwards with a velocity of 20m/sec?(g = 10m/sec<sup>2</sup>)

- 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
- C) Efficiency (Correct)
- 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 (Incorrect)
- B) 735.5 watts
- C) 745.5 watts
- D) 755.5 watts

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

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

25. 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 (Incorrect)
- D) 78 kg.m/sec