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Score: 15/25 (60.00%)

Code: 1603

1. What is the formula for speed?

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

2. What is the unit of speed?

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

3. What is the formula for velocity?

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

4. What is the unit for velocity?

- A) **Metre/second (Correct)** B) Metre/second<sup>2</sup>  
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 B) **Body at rest (Correct)**  
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**

C) Speed D) Velocity (Incorrect)

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/second<sup>2</sup>**  
C) Metre/minute D) Metre/hour (Incorrect)

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

- A) Metre/second (Incorrect) B) **Metre/second<sup>2</sup>**  
C) Metre/minutes D) Metre/minutes<sup>2</sup>

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> B) 0.59 m/sec<sup>2</sup>  
C) **0.069 m/sec<sup>2</sup> (Correct)** D) 0.69 m/sec<sup>2</sup>

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> 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>

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

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
- C) 30 m
- D) 40 m (Incorrect)

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 (Incorrect)
- C) 9.81 Newtons
- 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 (Incorrect)
- D) 755.5 watts

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
- B) 76 kg.m/sec
- C) 77 kg.m/sec
- D) 78 kg.m/sec (Incorrect)