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Score: 16/20 (80.00%)

Code: 6238

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

- A) Body at rest  
C) Speed

- B) Body at motion (Correct)**  
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 (Incorrect)

- B) 8 m/sec**  
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

11. What is the formula for acceleration?

- A) Metre/second  
C) Metre/minute

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

4. What is the unit for velocity?

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

12. 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>

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

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

13. What is the work done in unit time?

- A) Energy  
C) Force

- B) Power (Correct)**  
D) Acceleration

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

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

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

- A) Energy (Correct)**  
C) Acceleration

- B) Power  
D) Force

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 ratio of power output to power input?

- A) Work  
**C) Efficiency (Correct)**

- B) Energy  
D) Acceleration

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

16. 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)**  
C) 1 dyne

- B) 10 Joules  
D) 10 dynes

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

17. How many newtons for 1 kilogram?

- A) 981 Newtons  
**C) 9.81 Newtons**

- B) 98.1 Newtons  
D) 0.981 Newtons (Incorrect)

18. How many watts for 1 horse power in metric system?

- A) 725.5 watts  
C) 745.5 watts  
**B) 735.5 watts (Correct)**  
D) 755.5 watts

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

- A) 726 watts  
B) 736 watts

**C) 746 watts (Correct)** D) 756 watts

20. 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