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Score: 12/20 (60.00%)

Code: 8152

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/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 (Incorrect)  
C) **Vector quantity**      D) Scalar quantity

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

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

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 (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 formula for acceleration?

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

12. 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>

13. What is the work done in unit time?

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

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

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

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

- A) Work      B) Energy (Incorrect)  
C) **Efficiency**      D) Acceleration

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)**      B) 10 Joules  
C) 1 dyne      D) 10 dynes

17. How many newtons for 1 kilogram?

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

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

A) 725.5 watts

**B) 735.5 watts (Correct)**

C) 745.5 watts

D) 755.5 watts

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

A) 726 watts

B) 736 watts

**C) 746 watts (Correct)**

D) 756 watts

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20. 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)

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