

Student: Vaibhav poojary

Score: 17/20 (85.00%)

Code: 7390

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

13. What is the work done in unit time?

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

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

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

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

- A) Work      B) Energy  
C) Efficiency (Correct)      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      B) 98.1 Newtons  
C) 9.81 Newtons (Correct)      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

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