

Duration: 20 Mins

Total Marks: 20

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1. What is the capacity of a body to do work is called?
A) Power
B) Acceleration
C) Force
D) Energy
Answer: D) Energy

2. What is the rate of change of displacement of a body?
A) Body at motion
B) Velocity
C) Speed
D) Body at rest
Answer: B) Velocity

3. What is called if a body posses both magnitude and direction of velocity?
A) Velocity
B) Vector quantity
C) Speed
D) Scalar quantity
Answer: B) Vector quantity

4. How many watts for 1 horse power in British system?
A) 726 watts
B) 736 watts
C) 746 watts
D) 756 watts
Answer: C) 746 watts

5. What is the ratio of power output to power input?
A) Acceleration
B) Work
C) Efficiency
D) Energy
Answer: C) Efficiency

6. How many watts for 1 horse power in metric system?
A) 755.5 watts
B) 735.5 watts
C) 725.5 watts
D) 745.5 watts
Answer: B) 735.5 watts

7. What is the unit of speed?
A) Metre/second
B) Metre/second²
C) Metre/minute
D) Metre/hour
Answer: A) Metre/second

8. What is the formula for speed?
A) Change in momentum/Time
B) Change in velocity/Time
C) Distance in definite direction /Time
D) Distance covered/Time
Answer: D) Distance covered/Time

9. What is velocity of a body travels a distance of 168 metres in a line in 21 seconds?
A) 10 m/sec
B) 8 m/sec
C) 12 m/sec
D) 6 m/sec
Answer: B) 8 m/sec

10. What is called if a force of 1Newton acts on a body and moves it through a distance of 1 metre?
A) 10 dynes
B) 1 dyne
C) 1 Joule
D) 10 Joules
Answer: C) 1 Joule

11. What is the formula for velocity?
A) Distance covered/Time
B) Change in velocity/Time
C) Change of momentum/Time
D) Displacement/Time
Answer: D) Displacement/Time

12. What is the equivalent unit for 1 horse power in metric system?
A) 76 kg.m/sec
B) 78 kg.m/sec
C) 77 kg.m/sec
D) 75 kg.m/sec
Answer: D) 75 kg.m/sec

13. What is called if a body does not change its position with respect to its surroundings?
A) Body at motion
B) Body at rest
C) Velocity
D) Speed
Answer: B) Body at rest

14. What is the formula for acceleration?
A) Metre/second
B) Metre/second²
C) Metre/minute
D) Metre/hour
Answer: B) Metre/second²

15. What is the unit for velocity?
A) Metre/second²
B) Metre/minute
C) Metre/second
D) Metre/hour
Answer: C) Metre/second

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

- A) Speed B) Vector quantity
C) Velocity D) Scalar quantity

Answer: D) Scalar quantity

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

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

Answer: A) Body at motion

18. What is the work done in unit time?

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

Answer: C) Power

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

- A) Metre/minutes B) Metre/second
C) Metre/minutes² D) Metre/second²

Answer: D) Metre/second²

20. How many newtons for 1 kilogram?

- A) 0.981 Newtons B) 9.81 Newtons
C) 98.1 Newtons D) 981 Newtons

Answer: B) 9.81 Newtons