

April 2026

GOVT ITI PERDOOR

Answer Key

Duration: 20 Mins

Total Marks: 25

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1. What is the unit of speed?

- A) Metre/second²
B) Metre/hour
C) Metre/minute
D) Metre/second

Answer: D) Metre/second

2. What is the formula for acceleration?

- A) Metre/minute
B) Metre/second²
C) Metre/hour
D) Metre/second

Answer: B) Metre/second²

3. What maximum height a stone will reach if it is thrown upwards with a velocity of 20m/sec?(g = 10m/sec²)

- A) 30 m
B) 20 m
C) 40 m
D) 10 m

Answer: B) 20 m

4. What is the formula for velocity?

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

Answer: D) Displacement/Time

5. What is the work done in unit time?

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

Answer: D) Power

6. What is called if a body possesses only magnitude or size alone?

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

Answer: B) Scalar quantity

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

- A) 745.5 watts
B) 725.5 watts
C) 755.5 watts
D) 735.5 watts

Answer: D) 735.5 watts

8. What is velocity of a body travels a distance of 168 metres in a line in 21 seconds?

- A) 6 m/sec
B) 12 m/sec
C) 8 m/sec
D) 10 m/sec

Answer: C) 8 m/sec

9. What is the formula for speed?

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

Answer: A) Distance covered/Time

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

- A) Acceleration
B) Energy
C) Efficiency
D) Work

Answer: C) Efficiency

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

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

Answer: C) Body at motion

12. What is called if a body possesses both magnitude and direction of velocity?

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

Answer: B) Vector quantity

13. 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) 0.69 m/sec²
B) 0.059 m/sec²
C) 0.069 m/sec²
D) 0.59 m/sec²

Answer: C) 0.069 m/sec²

14. 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) 36 km/hour
B) 34 km/hour
C) 30 km/hour
D) 32 km/hour

Answer: A) 36 km/hour

15. 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) Speed D) Velocity

Answer: B) Body at rest

16. How many newtons for 1 kilogram?

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

Answer: D) 9.81 Newtons

17. What is the unit for velocity?

- A) Metre/second B) Metre/second²
C) Metre/hour D) Metre/minute

Answer: A) Metre/second

18. 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/sec² B) 0.20 m/sec²
C) 0.30 m/sec² D) 0.10 m/sec²

Answer: C) 0.30 m/sec²

19. What is called if a force of 1Newton acts on a body and moves it through a distance of 1 metre?

- A) 1 Joule B) 10 dynes
C) 1 dyne D) 10 Joules

Answer: A) 1 Joule

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

- A) Metre/minutes² B) Metre/minutes

- C) Metre/second² D) Metre/second

Answer: C) Metre/second²

21. What is the equivalent unit for 1 horse power in metric system?

- A) 77 kg.m/sec B) 78 kg.m/sec
C) 75 kg.m/sec D) 76 kg.m/sec

Answer: C) 75 kg.m/sec

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

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

Answer: C) Velocity

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

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

Answer: D) Energy

24. 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) 12 B) 8
metre/sec² metre/sec²
C) 10 D) 14
metre/sec² metre/sec²

Answer: A) 12 metre/sec²

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

- A) 746 watts B) 756 watts
C) 726 watts D) 736 watts

Answer: A) 746 watts