ITI Quiz - 10-Feb-2026
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Q. ID: ITISKILL0394GS

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Answer Key

Duration: 60 Mins **Total Marks: 38** **Q.ID: ITISKILL0394GS**

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1. 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) 30 km/hour B) 34 km/hour
C) 32 km/hour D) 36 km/hour

Answer: D) 36 km/hour

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2. How much work done in one hour, if a pump can raise 100 liters of water through a height of 200 meters in one minutes?

A) 12 x 107 kg meter B) 12 x 104 kg meter
C) 12 x 105 kg meter D) 12 x 106 kg meter

Answer: C) 12 x 105 kg meter

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3. What is the work done in unit time?

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

Answer: D) Power

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4. What is the formula for potential energy?

A) mgh joule B) 1/2 mgh joule
C) mgh^2 joule D) 2/3 mgh joule

Answer: A) mgh joule

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5. What is the unit for velocity?

A) Metre/hour B) Metre/second
C) Metre/second^2 D) Metre/minute

Answer: B) Metre/second

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

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

Answer: D) 8 m/sec

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7. What is the formula for velocity?

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

Answer: B) Displacement/Time

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8. What is the potential energy, if a body of mass 250 kg is at a height of 30 metre?

A) 72.57 KJ B) 73.57 KJ
C) 75.57 KJ D) 74.57 KJ

Answer: B) 73.57 KJ

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9. What is the work done in joules if a load of 15.5 kg is lifted through a height of 4.4 metres?

A) 669 Joules B) 639 Joules
C) 659 Joules D) 649 Joules

Answer: A) 669 Joules

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10. What is the unit of speed?

A) Metre/hour B) Metre/second^2
C) Metre/second D) Metre/minute

Answer: C) Metre/second

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11. What is the formula for kinetic energy?

A) (2/3) mv joule B) (1/2) mv^2 joule
C) (2/3) mv^2 joule D) (1/2) mv joule

Answer: B) (1/2) mv^2 joule

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

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

Answer: D) 735.5 watts

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

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

Answer: D) 75 kg.m/sec

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

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

Answer: A) Velocity

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

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

Answer: A) Efficiency

16. Which machine converts mechanical energy into electrical energy?

A) Iron box   B) Battery
C) Heater   D) Generator

Answer: D) Generator

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17. 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 Joule
C) 1 dyne   D) 10 Joules

Answer: B) 1 Joule

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

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

Answer: A) Vector quantity

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

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

Answer: C) Energy

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

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

Answer: D) Body at motion

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21. 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) 8 metre/sec^2 B) 14 metre/sec^2
C) 12 metre/sec^2 D) 10 metre/sec^2

Answer: C) 12 metre/sec^2

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22. Which is the unit of resistance?

A) Watt   B) Ohm
C) Volt   D) Ampere

Answer: B) Ohm

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23. What is the retardation of a car moving with a velocity of 50 km/hr is brought to rest in 45 seconds?

A) 0.20 m/sec^2 B) 0.10 m/sec^2
C) 0.40 m/sec^2 D) 0.30 m/sec^2

Answer: D) 0.30 m/sec^2

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24. What is the work done, if a force of 250 newtons acted upon a body and the body has been moved through a distance of 15 metres?

A) 3730 Joules   B) 3740 Joules
C) 3720 Joules   D) 3750 Joules

Answer: D) 3750 Joules

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25. What is the potential energy in a body of mass 10 kg kept on the top of a pole 20 metres height?

A) 1952 Joules   B) 1962 Joules
C) 1942 Joules   D) 1972 Joules

Answer: B) 1962 Joules

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26. What is called if a body does not change its position with respect to its surroundings?

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

Answer: C) Body at rest

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27. 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) 0.59 m/sec^2 B) 0.69 m/sec^2
C) 0.069 m/sec^2 D) 0.059 m/sec^2

Answer: C) 0.069 m/sec^2

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28. How many ergs for 1 Joule?

A) 10^7 ergs   B) 10^3 ergs
C) 10^9 ergs   D) 10^5 ergs

Answer: A) 10^7 ergs

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29. Which is the unit of current?

A) Ampere   B) Volt
C) Watt   D) Ohm

Answer: A) Ampere

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

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

Answer: B) 746 watts

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

A) Metre/minutes   B) Metre/minutes^2
C) Metre/second   D) Metre/second^2

Answer: D) Metre/second^2

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32. What maximum height a stone will reach if it is thrown upwords with a velocity of 20m/sec?(g = 10m/sec^2)

A) 30 m   B) 20 m

C) 10 m   D) 40 m

Answer: B) 20 m

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33. What is the kinetic energy of a bullet of mass 5gm travels with a speed of 500 m/sec?

A) 620 Joules   B) 635 Joules

C) 625 Joules   D) 630 Joules

Answer: C) 625 Joules

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34. What is the formula for speed?

A) Change in momentum/Time   B) Distance covered/Time

C) Distance in definite direction /Time   D) Change in velocity/Time

Answer: B) Distance covered/Time

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35. What is the formula for acceleration?

A) $Metre/second^2$ B) Metre/hour

C) Metre/second   D) Metre/minute

Answer: A) $Metre/second^2$

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

A) Velocity   B) Scalar quantity

C) Vector quantity   D) Speed

Answer: B) Scalar quantity

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37. What is the flow of electrons in any conductor?

A) Voltage   B) Resistance

C) Current   D) Power

Answer: C) Current

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38. How many newtons for 1 kilogram?

A) 981 Newtons   B) 9.81 Newtons

C) 0.981 Newtons   D) 98.1 Newtons

Answer: B) 9.81 Newtons