

# MEASUREMENT AND SI UNITS BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

For All Competitive SSC, Bank, IBPS, UPSC, Railway, IT & Other Govt. Exams

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**Q1.** Match List-I with List-II and select the correct answer using the code given below the lists.

List I (Units)	List II (Parametric quantities)
A. Watt	1. Heat
B. Knot	2. Navigation
C. Nautical mile	3. Speed of a ship
D. Calorie	4. Power

Code: (A) (B) (C) (D)

- a) 4 3 2 1
  - b) 3 1 4 2
  - c) 1 2 3 4
  - d) 2 4 1 3
- 

**Q2.** The unit of work is

- a) Watt
  - b) Joule
  - c) Neutron
  - d) Dyne
- 

**Q3.** Practical unit of heat is

- a) Joule
- b) Calorie
- c) Horse power

d) Watt

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**Q4.** What is measured in Cusec?

- a) Flow of water
- b) Purity of water
- c) Depth of water
- d) Quantity of water

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**Q5.** The smallest unit of length is

- a) Angstrom
  - b) Micron
  - c) Nanometre
  - d) Fermimetre
- 

**Q6.** A motor vehicle is moving on a circle with a uniform speed. The net acceleration of the vehicle is

- a) away from the centre along the radius of the circle
  - b) zero
  - c) towards the centre of circle
  - d) perpendicular to the radius and along the velocity
- 

**Q7.** Match List I (Units) with List II (Physical quantity) and select the correct answer using the codes given below the lists.

<b>List I (Units)</b>	<b>List II (Physical quantity)</b>
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A. Watt	1. Electric charge
B. Tesla	2. Power
C. Coulomb	3. Luminous intensity
D. Candela	4. Magnetic field

Code: (A) (B) (C) (D)

a) 1 2 4 3

b) 1 4 1 3

c) 1 2 3 4

d) 2 4 3 1

**Q8.** How can the height of a person who is six feet tall, be expressed (approximately) in nanometre?

a)  $183 \times 10^7$  nm

b)  $183 \times 10^6$  nm

c)  $234 \times 10^6$  nm

d)  $181 \times 10^7$  nm

**Q9.** S.I. unit of surface tension is

a)  $\text{N/m}^2$

b) degree/cm

c) N/m

d) N m

**Q10.** The displacement of a particle at time  $t$  is given by  $X = at + bt^2 + \frac{c}{2}t^3$  where  $a$ ,  $b$  and  $c$  are positive constants. Then the particle is

a) decelerated along  $j$  direction

b) accelerated along  $\frac{18}{5}$  direction

c) decelerated along  $\frac{18}{5}$  direction

d) accelerated along  $\hat{j}$  direction

**Q11.** Match List 'I' (Physical quantity) with list II (Dimension) and select the correct answer by using the codes given below the lists.

List I (Physical quantity)	List II (Dimension)
A. Density	1. $[MLT^{-2}]$
B. Force	2. $[ML^{-3}]$
C. Energy	3. $[MLT^{-1}]$
D. Momentum	4. $[ML^2T^{-2}]$

Code: (A) (B) (C) (D)

a) 2 1 4 3

b) 3 2 4 1

c) 1 2 3 4

d) 3 2 1 4

**Q12.** Which one of the following remains constant while throwing a ball upward ?

a) Acceleration

b) Displacement

c) Kinetic energy

d) Velocity

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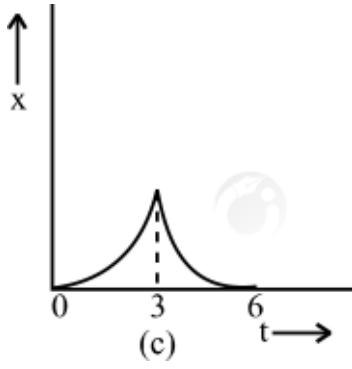
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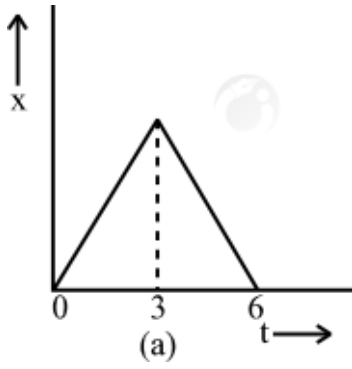
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**Q13.** A particle starts from rest, accelerates uniformly for 3 seconds and then decelerates uniformly for 3 seconds and comes to rest. Which one of the following displacement (x)-time (t) graphs represents the motion of the particle? 0 3 6

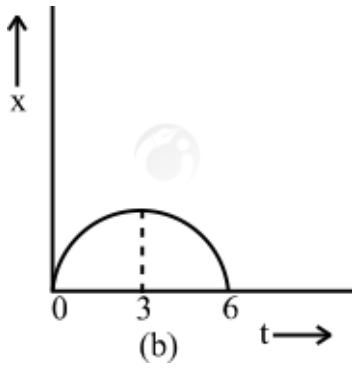
a)



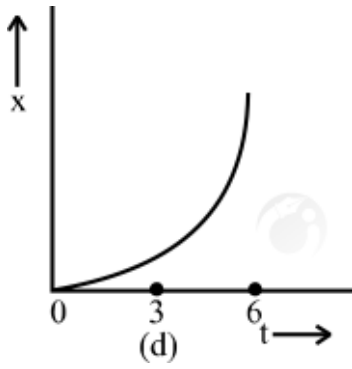
b)



c)



d)



**Q14.** One micron equals to

- a)  $10^{-6}$  m
  - b)  $10^{-3}$  m
  - c)  $10^{-9}$  m
  - d)  $10^{-2}$  m
- 

**Q15.** A parsec, a unit of distance used to measure the distance related to the stars in the sky, is equal to

- a) 4.50 light years
  - b) 4.25 light years
  - c) 3.25 light years
  - d) 3.05 light years
- 

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**Answers to the above questions :**

**Q1. Answer: (a)**

**Q2. Answer: (b)**

**Q3. Answer: (b)**

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**Q4. Answer: (a)**

**Q5. Answer: (d)**

**Q6. Answer: (c)**

**Q7. Answer: (b)**

**Q8. Answer: (a)**

**Q9. Answer: (c)**

**Q10. Answer: (b)**

**Q11. Answer: (a)**

**Q12. Answer: (a)**

**Q13. Answer: (a)**



**Q14. Answer: (a)**

**Q15. Answer: (c)**

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