

Time: 3:00 Hours

There are three sections in this paper i.e. Section A, B &amp; C.

Time Allowed: 20 Minutes

## "Section-A"

Marks: 12

## INSTRUCTIONS:

- Attempt this section on the MCOs Answer Sheet only.
- Use black ball point or marker for shading only one circle for correct option of a question.
- No mark will be awarded for cutting, erasing, over writing and multiple circles shading.

1. Choose the correct option i.e. A, B, C, or D.

2. Amount of substance measured in .....

- (A) Kg                      (B) Mole                      (C)  $m^3$                       (D) Power of 10

3. Which of the following is scalar quantity?

- (A) Weight                      (B) Speed                      (C) Velocity                      (D) Tension

4. Conventionally anti-clock wise torque is taken as .....

- (A) Positive                      (B) Negative                      (C) Parallel                      (D) Zero

5. One horse power (hp) = .....

- (A) 550 watt                      (B) 1000 watt                      (C) 476 watt                      (D) 746 watt

6. The product of mass and velocity is called .....

- (A) Force                      (B) Pressure                      (C) Momentum                      (D) Torque

7. The temperature of normal human body is .....

- (A)  $32^\circ\text{F}$                       (B)  $89^\circ\text{F}$                       (C)  $37^\circ\text{C}$                       (D) 0 K

8. The angle at which X and Y-components of force are equal is .....

- (A)  $0^\circ$                       (B)  $30^\circ$                       (C)  $45^\circ$                       (D)  $60^\circ$

9. 1 joule = .....

- (A) 1 meter  $\times$  1 sec                      (B) 1 newton  $\times$  1 meter                      (C) 1 kg  $\times$  1 meter                      (D) None of these

10. Pressure at depth in fluid .....

- (A) Increases                      (B) Decreases                      (C) Remains the same                      (D) None of these

11. The temperature at which a body is not radiating any heat is .....

- (A)  $0^\circ\text{C}$                       (B)  $0^\circ\text{F}$                       (C) 0 K                      (D) All of these

12. Moment of force is called .....

- (A) Torque                      (B) Momentum                      (C) Acceleration                      (D) Inertia

13. Among speed, temperature, current and momentum, the number of base quantities is .....

- (A) 1                      (B) 2                      (C) 3                      (D) 4