



- ALL questions are **MANDATORY**. You **MUST** solve.
- For molecular weight values refer to the attached periodic table.
- Conversion factors sheet is also attached to the exam.

### Question 1 (35 Marks)

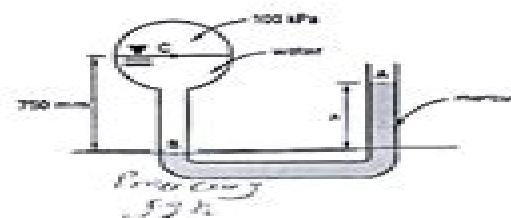
Choose the correct answer:

1. What basic SI unit is equal to  $\text{kg} \cdot \text{m}^2/\text{s}^2$

- (a) Joule  
(b) Pascal  
(c) Tesla  
(d) Watt

2. One leg of a mercury U-tube manometer is connected to a pipe containing water under a gage pressure of  $100 \text{ kPa}$ . The mercury in this leg stands  $750 \text{ mm}$  below the water. What is the height of mercury in the other leg, which is open to the air? The specific gravity of mercury is  $13.5$

- (a)  $0.2 \text{ m}$   
(b)  $0.5 \text{ m}$   
(c)  $0.8 \text{ m}$   
(d)  $1 \text{ m}$



3. What are the products of complete combustion of a gaseous hydrocarbon?

- (a) Carbon monoxide only.  
(b) Water, carbon monoxide, and carbon dioxide.  
(c) Carbon dioxide and water.  
(d) Carbon monoxide, water, and ammonia.

4. Why is excess air required in combustion?

- (a) It allows the reaction to occur stoichiometrically.  
(b) It reduces air pollution.  
(c) It reduces the heat requirements.  
(d) It allows complete combustion.

5. A sample of an unknown compound is found to be  $49.3\%$  carbon,  $9.6\%$  hydrogen,  $19.2\%$  nitrogen, and  $21.9\%$  oxygen by weight. What is its molecular formula?

- (a)  $\text{C}_4\text{H}_5\text{NO}$   
(b)  $\text{C}_4\text{H}_5\text{NO}$   
(c)  $\text{C}_5\text{H}_5\text{N}_2\text{O}$   
(d)  $\text{C}_5\text{H}_5\text{NO}$

6. Nitroglycerin is made by combining glycerol, nitric acid, and sulfuric acid. What are the minimum coefficients needed to balance the equation of this reaction?



- (a) 2, 6, 2, 2, 6, 2  
(b) 1, 3, 3, 1, 3, 2  
(c) 4, 2, 1, 1, 2, 4  
(d) 1, 3, 1, 1, 3, 1

# Chemical Engineering Exam Study Guide

**Dilip K. Das, Rajaram K. Prabhudesai**



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