



- 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 $kg \cdot m^2/s^2$

- (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 $100 kPa$. The mercury in this leg stands $750 mm$ 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 m
- (b) 0.5 m
- (c) 0.8 m
- (d) 1 m



$$P + P_{water} = P_{atm} + \rho_{Hg} g h$$

$$100 \times 10^3 + \frac{1000}{9.81} \times 9.81 \times 0.75 = 101325 + 13500 \times h$$

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) C_4H_5NO
- (b) C_5H_5NO
- (c) $C_5H_5N_2O$
- (d) C_5H_5NO

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

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