

Name: _____						
Subject: Chemistry		Class: 12 th		Time: 60 minutes		
Chapter No.15		MJDexpert.com			Total Marks:	30
				Obtained marks		

Note: Please attempt any 7 short questions from Question 2. Also, attempt both parts (a and b) of Question 3. Cutting and removal of any content is strictly prohibited.

Objective-Section

Q. 1 Encircle the correct answer. (8x1=8)

- Which one of the following elements is not present in all types of protein molecules?
(A) Carbon (B) Sulphur (C) Hydrogen (D) Nitrogen
- The fertilizer which contains 46 % N is
(A) Urea (B) Ammonia (C) Ammonium nitrate (D) Ammonium cyanate
- Which one is not a calcareous material?
(A) Lime (B) Clay (C) Marble (D) Marine Shells
- Ammonium Nitrate fertilizer is not useful for
(A) Wheat (B) Cotton (C) Sugarcane (D) Paddy rice
- Micro-nutrient is required in quantity for plants growth ranging from
(A) 4 - 40 g (B) 6 - 200 g (C) 6 - 200 Kg (D) 4 - 40 Kg
- Phosphorous helps the growth of
(A) Root (B) leave (C) Seed (D) Stem
- Which substance is added to the air-cooled cement clinker?
(a) Clay (b) Gypsum (2%) (c) Alumina d) Marble
- Argillaceous material used for the manufacture of cement provides
(a) Basic components (b) Amphoteric components
(c) Acidic components (d) Both acidic and basic components

Subjective-Section

Q.2 Write short answers of any SEVEN (7) of the following questions: (7x2=14)

- What are **Fertilizers**? Why are they needed?
- Write down four qualities of a good fertilizer.
- What is **Clinker**?
- Name two calcareous and Argillaceous is raw materials of cement.
- Discuss the reactions taking place in first 24 hours during setting of cement.
- Explain setting of cement
- Which different pulping processes are being used for the production of paper? Write the one used in Pakistan and why?
- What is **lignin**? Why it is necessary to remove it in pulp making? Write any four essential qualities of good fertilizers?

Q.No.3 Long Question: (4+4=8)

- Define micro-nutrients and macro-nutrients. In what range by miss they are needed by plants?
- Define paper. Also mention three woody and three non woody raw material for its manufacturing