

XK(III) — Chem (11)

2015-17

Organic

Time : 3 hours

Full Marks : 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer four questions in which

Q. No. 1 is compulsory.

✓ 1. Choose the correct answers from the following :

2 × 10 = 20

(a) ✓ Main constituent of proteins is :

(i) ~~Amino acid~~

(ii) Amine

(iv) Carboxylic acid

✓ (c) Oxidation is :

(i) ~~Removal of electron~~

(ii) Substitution of oxygen

(iii) Addition of hydrogen

(iv) None of these

✓ (d) Nano peptide is :

(i) Oxytosin

(ii) ~~Vesopresin~~

(iii) Both (i) and (ii)

(iv) None of these

✓ (e) Maltose is :

(i) ~~Carbohydrate~~

(ii) Amino acid

(iii) Enzyme

(iv) Vitamin

www.BiharPaper.com

www.BiharPaper.com

(f) Purine base in RNA is :

- (i) Cytocine
- (ii) Guanine
- (iii) Urecyl
- (iv) Thymine

(g) Disaccharide is available in :

- (i) Maltose
- (ii) Lactose
- (iii) Sucrose
- (iv) Cellobiose

(h) Which of the following is structural unit of amino acid ?

- (i) Carbohydrate
- (ii) Vitamine
- (iii) Protein
- (iv) Fats

(i) Which of the following is most stable protein structure ?

- (i) Quarternary

(ii) Tertiary

(iii) Secondary

(iv) Primary

(j) Removal of electron is :

- (i) Oxidation
- (ii) Reduction
- (iii) Hydration
- (iv) Dehydration

2. Describe any two of the following :  $10 \times 2 = 20$

- (a) Hemocyamis
- (b) Redox Reaction
- (c) Polypeptides
- (d) Myoglobin

3. Write short notes on the following :  $10 \times 2 = 20$

- (a) Ion transport through cell membrane
- (b) Kreb cycle

4. Explain the following : 20

- (a) Thiamine

(b) Pyrophosphate

(c) NADP

5. Explain, in detail, Transcription and Translocation in protein synthesis. 20

6. Describe the Trace elements and their significance. 20

7. Describe any two of the following :  $10 \times 2 = 20$

(a) Synthesis of ATP

(b) Glycolysis

(c) Mode of enzyme action

(d) Denaturation of protein

8. Describe the structure of protein. 20

