



[Total Marks : 70

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| 1 | (A) | Answer the following : (One mark) | 04 |
| | (1) | Oxidation + reduction is redox reaction.
True/False. | |
| | (2) | In NaCl, Na is positive, Cl is negative and the
bond is _____ [ionic or hydrogen] | |
| | (3) | The toluene is soluble in full soluble water.
True/False. | |
| | (4) | Write chemical name of KMnO ₄ . | |
| 1 | (B) | Answer the following : (Two mark) (Any one) | 02 |
| | (1) | Define : covalent bond. | |
| | (2) | Write examples of substances that shows acidic pH
in pH meter. | |
| 1 | (C) | Answer the following : (Three mark) (Any one) | 03 |
| | (1) | Write a note on Acid - Base reaction. | |
| | (2) | Short note : ionic bond with example. | |
| 1 | (D) | Answer the following : (Five mark) (Any one) | 05 |
| | (1) | Explain : Redox biological reaction & redox
potential. | |
| | (2) | Explain about Importance & properties of water. | |
| 2 | (A) | Answer the following : (One mark) | 04 |
| | (1) | D-Glucose is mostly available in nature.
True/False. | |
| | (2) | Write name of sugar that having 4 carbon. | |
| | (3) | The starch shows _____ bond between two
glucose. | |
| | (4) | Phospholipid having fatty acid+glycerol+_____. | |

- 2 (B) Answer the following : (Two mark) (Any one) **02**
 (1) What is complex lipid ?
 (2) Write functions of t-RNA.
- 2 (C) Answer the following : (Three mark) (Any one) **03**
 (1) Short note : Function of carbohydrates.
 (2) Short note : Classification of protein on the basis of function.
- 2 (D) Answer the following : (Five mark) (Any one) **05**
 (1) Explain : Structure of DNA.
 (2) Explain : Structure of protein.
- 3 (A) Answer the following : (One mark) **04**
 (1) Write examples of cofactors.
 (2) Hg (Mercury) is irreversible inhibitor for some enzyme. True/False.
 (3) Ligases are group of enzyme that catalyse hydrolysis reaction. True/False.
 (4) What is active site ?
- 3 (B) Answer the following : (Two mark) (Any one) **02**
 (1) Enlist classes of enzyme according to EC.
 (2) Define : Enzyme activity.
- 3 (C) Answer the following : (Three mark) (Any one) **03**
 (1) Write a note on Irreversible enzyme inhibition.
 (2) Short note : nomenclature of enzyme.
- 3 (D) Answer the following : (Five mark) (Any one) **05**
 (1) Explain : Classifications of enzymes.
 (2) Explain : types of reversible enzyme inhibition.
- 4 (A) Answer the following : (One mark) **04**
 (1) Desiccation is a physical method for microbial control. True/False.
 (2) Write examples of chemical agents of microbial control.
 (3) UV rays kill microbes by mutating _____ (DNA or protein)
 (4) Enlist examples of dye that are antiseptic.

- 4 (B) Answer the following : (Two mark) (Any one) **02**
(1) Define : Osmotic pressure.
(2) What is disinfectant ?
- 4 (C) Answer the following : (Three mark) (Any one) **03**
(1) Short note : Phenol coefficient method.
(2) Short note : temperature as a microbial controlling agent.
- 4 (D) Answer the following : (Five mark) (Any one) **05**
(1) Explain : Principle & types of sterilization.
(2) Write a note on chemical agent used in microbial control. (Any three)
- 5 (A) Answer the following : (One mark) **04**
(1) Write examples of Antibiotics.
(2) The first antibiotic discovered by_____ and it was _____.
(3) Enlist antifungal antibiotic.
(4) Write name of antiviral antibiotic.
- 5 (B) Answer the following : (Two mark) (Any one) **02**
(1) What is chemotherapy.
(2) What is antibiotic ?
- 5 (C) Answer the following : (Three mark) (Any one) **03**
(1) Short note : non medicinal use of Antibiotic.
(2) Write about inhibition of protein synthesis mode of action of antibiotic.
- 5 (D) Answer the following : (Five mark) (Any one) **05**
(1) Explain : Mode of action of cell wall synthesis inhibition with example.
(2) Explain in brief about antifungal & antiviral antibiotic.
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