

APRIL 2018

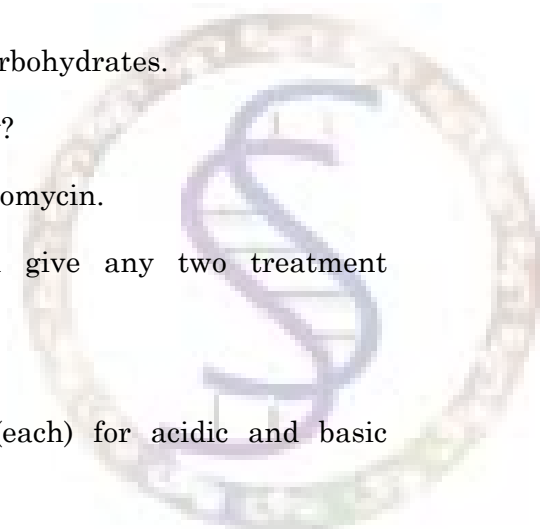
1713304/UCYA21C

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What is Chelation?
 2. Give an example for hexadentate ligand.
 3. What is LAN?
 4. What is mutarotation?
 5. Write the classes of carbohydrates.
 6. What is chemotherapy?
 7. Give the uses of streptomycin.
 8. Elaborate AIDS and give any two treatment methods of cancer.
 9. What is EMF?
 10. Write one example (each) for acidic and basic buffer solution.
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11. Write two packing materials in column chromatography.
12. What is ion exchanger?

SECTION B — ($5 \times 5 = 25$ marks)

Answer any FIVE questions.

13. Describe the biological role of hemoglobin.
14. Discuss the structure of glucose.
15. Write the preparation and properties of glycine.
16. Explain briefly the mode of action of sulpha drugs.
17. Write about the applications of electrochemical series.
18. Derive Henderson's equation of buffer solution.
19. Explain the principles and applications of thin layer chromatography.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

20. Explain the Pauling's theory and give its merits and demerits.
21. Write preparation, properties and uses of sucrose.

22. Define the following terms and give one example for each
- (a) Analgesics
 - (b) Antipyretics
 - (c) Tranquilizers
 - (d) Sedatives
 - (e) Anesthetics.
23. Derive hydrolysis constant of salt formed from strong acid and weak base.
24. Write the principles, procedure and applications of paper chromatography.

