

C 43151

(Pages : 2)

Name.....

Reg. No.....

**SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION**  
**APRIL 2023**

Biochemistry

BCH 2C 02—BIOCHEMISTRY—II

(2020—2022 Admissions)

Time : Two Hours

Maximum : 60 Marks

**Section A***Answer all questions.**Each question carries 1 mark.*

1. Write the name of factor I in blood coagulation pathway.
2. Name an anion exchanger used in ion exchange chromatography.
3. What is pH ?
4. Name the dispersed medium and dispersal medium in an emulsion.
5. Name the plasma protein which offers immunological function.
6. What happens when a cell is put in hypertonic solution ?
7. The basic principle behind absorption photometry is \_\_\_\_\_.
8. Which among the following is an energy dependent process ?
  - a) Simple diffusion.
  - b) Facilitated diffusion.
  - c) Active transport.
  - d) Passive transport.
9. Name the most abundant plasma protein.

(9 × 1 = 9 marks)

**Turn over**

**Section B**

*Answer any **seven** questions.*

*Each question carries 3 marks.*

10. Mention the role of APS and TEMED in electrophoresis.
11. Discuss about the role of acid base indicators.
12. What are ion exchangers ? Mention the role with examples.
13. Discuss about the properties of colloids.
14. Write about principle and applications of thin layer chromatography.
15. Brief on passive transport.
16. Mention about the components of an acidic and a basic buffer with suitable examples.
17. Differentiate between native PAGE and SDS-PAGE.

(7 × 3 = 21 marks)

**Section C**

*Answer any **four** questions.*

*Each question carries 5 marks.*

18. Explain the technique of colorimetry.
19. Give an account of blood coagulation.
20. Discuss about Donnan membrane equilibrium.
21. Give an account of active transport.
22. Explain how pH is measured using a pH meter.

(4 × 5 = 20 marks)

**Section D**

*Answer any **one** question.*

*It carries 10 marks.*

23. Give a detailed account of the native PAGE and its applications.
24. Discuss in detail the principle and applications of Ion exchange chromatography.

(1 × 10 = 10 marks)