

Reg. No.

--	--	--	--	--	--	--	--	--	--



BSCBCCN 201

Second Semester B.Sc. Degree Examination, September 2022
(NEP – 2020) (2021 – 2022 Batch Onwards)
BIOCHEMISTRY (Paper – II)
Chemical Foundation of Biochemistry – 2
(DSCC)

Time : 2 Hours

Max. Marks : 60

SECTION – A

Answer **any five** of the following questions :

(5×2=10)

1. a) What is first order reaction ? Give an example.
- b) What are enantiomers ? Give one example.
- c) Differentiate between exergonic and endergonic reactions.
- d) What is emulsion ? Give one example.
- e) Give the importance of Zn in biological system.
- f) Define co-ordination number. What is the co-ordination number of $[\text{Co}(\text{NH}_3)_3]\text{Cl}_3$?
- g) What are ferrocenes ?

SECTION – B

Answer **any four** of the following questions :

(4×5=20)

2. Explain Brownian movement.
3. Give the sources, signs and symptoms of mercury poisoning.
4. Explain the methods of resolution of racemic mixture.
5. Explain preparation and protonolysis of Grignard reagent.
6. Describe dialysis process.
7. Explain stereoisomerism in co-ordination compounds.

P.T.O.



SECTION – C

Answer **any three** of the following questions : **(3×10=30)**

8. i) Give the classification of organic compounds with example.
ii) Explain geometrical isomerism. **(5+5)**
 9. i) Give an account on applications of colloids.
ii) Derive rate constant for zero order reaction. **(5+5)**
 10. i) What are free radicals ? Explain the generation and scavengers systems of free radicals.
ii) Write a note on lead poisoning. **(6+4)**
 11. i) Give the various steps of metallurgical process in brief.
ii) What are metalloporphyrins ? Explain their role in biological systems. **(6+4)**
-