



DCCB – 502

V Semester B.Sc. Examination, February/March 2024
(NEP Scheme) (Freshers)
BIOCHEMISTRY
Paper – VI : Human Physiology and Molecular Biology

Time : 2½ Hours

Max. Marks : 60

- Instructions** : 1) **All Sections are compulsory.**
2) Section – **A** : Answer **any five.**
3) Section – **B** : Answer **any five.**
4) Section – **C** : Answer **any three.**

SECTION – A

1. Answer **any five** of the following.

(5×2=10)

- What are neurotransmitters ? Give an example.
- What is hypoxia ?
- Write a note on composition of Lymph.
- Mention the storage functions of liver.
- Draw a neat labelled diagram of neuron.
- What is reverse transcription ?
- List out the components of Prokaryotic RNA polymerase.



SECTION – B

Answer **any five** of the following.

(5×4=20)

- Explain the mechanism of respiration.
- What is blood coagulation ? Explain the intrinsic pathway.
- Discuss the remodeling of bones.
- How the carbohydrates are digested and absorbed in GIT ?
- How does kidneys play role in acid-base balance ?
- Outline the DNA replication in eukaryotes.

P.T.O.



SECTION – C

Answer **any three** of the following.

(3×10=30)

8. Explain the events in post transcriptional modification.
9. Discuss the steps involved in prokaryotic translation.
10. a) Write a note on Meselson-Stahl experiment.
b) Explain the mechanism of action of steroid hormones. (5+5)
11. a) Give an account on sliding filament model.
b) Write a note on physiological functions of pancreatic hormones. (5+5)
12. Outline the digestive system with suitable diagram.

