Note: Read the following instructions carefully:

(i) Answer all the questions of Section – A. Answer any six questions out of eight in Section – B and answer any two questions out of three in Section – C.

(ii) In Section – A, questions from Sr. Nos. 1 to 10 are of “Very Short Answer Type”. Each question carries two marks. Every answer may be limited to 5 lines. Answer all these questions at one place in the same order.

(iii) In Section – B, questions from Sr. Nos. 11 to 18 are of “Short Answer Type”. Each question carries four marks. Every answer may be limited to 20 lines.

(iv) In Section – C, questions from Sr. Nos. 19 to 21 are of “Long Answer Type”. Each question carries eight marks. Every answer may be limited to 60 lines.

(v) Draw labelled diagrams, wherever necessary for questions in Sections – B and C.

SECTION – A

Note: Answer all the questions. Each answer may be limited to 5 lines.

1. What is meant by chloride shift?

2. Define glomerular filtration.

3. Name the cranial meninges covering the brain of man.

4. What is all-or-none principle?

5. Distinguish between diabetes insipidus and diabetes mellitus.

6. “Colostrum is very much essential for the new born infants.” Justify.

\[1 \text{ of } 2\]
7. What in your view are the reasons for population explosion especially in India?

8. Mention the advantages of Lactational amenorrhea method.

9. What is popularly called “Guardian Angel of cell’s Genome”?

10. What is electrocardiography and what are the normal components of ECG?

SECTION – B

**Note:** Answer any six questions. Each answer may be limited to 20 lines each.

6 x 4 = 24

11. Describe disorders of respiratory system.


13. What is Cori’s cycle? Explain the process.

14. Write a note on Addison’s disease and Cushing’s syndrome.

15. Write short note on B-cells.

16. How is sex determined in human beings?

17. Describe erythroblastosis foetalis.

18. Explain the different types of cancers.

SECTION – C

**Note:** Answer any two questions. Each answer may be limited to 60 lines.

2 x 8 = 16

19. Describe the structure of the heart of man with the help of neat labelled diagram.

20. Describe male reproductive system of a man. Draw a labelled diagram of it.

21. What is criss-cross inheritance? Explain the inheritance of one sex linked recessive character in human beings.