- 20. List the major functions of Golgi body.
- 21. Define operon and write about lac operon.
- 22. Plasma membrane is a quasi-fluid membrane. Why?
- 23. Give an account on methods of cell signaling.
- 24. Distinguish between prokaryotes and eukaryotes?

 $(4 \times 4 = 16)$

PART D

Answer **any Two** questions. Each question carries 12 marks.

- 25. Give an account on the mechanism of protein synthesis in Eukaryotes
- 26. Briefly explain the different modifications of plasma membrane with diagrams?
- 27. Explain the structure and function of mitochondria.
- 28. Explain polymorphism in lysosomes

 $(12 \times 2 = 24)$