



- 23) Mention the types of carcinogens with an example for each.
- 24) Write the meaning of following terms :
- a) Explant
 - b) Totipotency
 - c) Somaclones.
- 25) Draw neat labelled diagram of simple stirred tank bioreactor.
- 26) Mention three causes for biodiversity loss.

PART – D

SECTION – I

Answer **any four** of the following questions in about **200 to 250** words **each**, wherever applicable : **(4 × 5 = 20)**

- 27) Describe the structure of pollen grain of angiosperms.
- 28) Draw neat labelled diagram of human male reproductive system.
- 29) Explain Mendel's experiment to describe inheritance of one gene with reference to height of pea plants.
- 30) List the salient features of Human Genome.
- 31) Name the diseases caused by following organisms :
- a) Rhino virus. (1)
 - b) Epidermophyton. (1)
 - c) Salmonella typhi. (1)
 - d) Wuchereria malayi. (1)
 - e) Plasmodium vivax. (1)
- 32) What is Bee-Keeping? Write any four points for successful Bee-Keeping?