

**PART – B**

Answer **any five** of the following questions in **3 to 5** sentences **each**, wherever applicable : **(5 × 2 = 10)**

- 11) List the hormones produced by the placenta during pregnancy.
- 12) Write any two simple principles to prevent sexually transmitted diseases.
- 13) Mention four symptoms of Down's syndrome.
- 14) What is Incomplete dominance? Give an example.
- 15) Write any two factors affecting Hardy – Weinberg principle.
- 16) What is the significance of selectable marker in cloning vector?
- 17) Codon AUG has dual function – Justify.
- 18) What are the criteria of DNA to act as a genetic material?

PART – C

Answer **any five** of the following questions in about **40 to 80** words **each**, wherever applicable : **(5 × 3 = 15)**

- 19) Name the types of vegetative propagules in following plants :
 - a) Potato
 - b) Ginger
 - c) Bryophyllum.
- 20) What is pollination? Mention any four features of wind pollinated flowers.
- 21) What is Infertility? Give reasons for infertility in humans.
- 22) What are analogous organs? Give any two examples.