

U.G. 3rd Semester Examination - 2020**BOTANY****[HONOURS]****Course Code : BOTH-CC-T-07****(Reproductive Biology of Plants)**

Full Marks : 40

Time : 2½ Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.***Answer all the questions.**

1. Answer any **five** of the following : 2×5=10
- Define microgametophyte.
 - What is cybrid?
 - What is meant by pseudomonads?
 - Define tetrasporic embryo sac.
 - What is sporoderm stratification?
 - What is stub pollination?
 - What is suspensor?
 - What is aril?

2. Answer any **two** questions: 5×2=10
- Briefly mention the genic control of self incompatibility.
 - Diagrammatically represent the development of typical dicotyledonous embryo.
 - What is NPC system? State importance of NPC system in palynology.
 - What is Aeropalynology? Illustrate the impact of aeropalynology with respect to human health issue.
3. Answer any **two** questions: 10×2=20
- Justify the statement “Flower as a modified determinate shoot”. 10
 - Define apomixis. What are the types of apomixis? Explain the development of adventive embryony type of recurrent apomixis. State the causes of apomixis. 2+6+2
 - Illustrate organization and ultrastructure of mature embryo sac. 5+5
 - Elucidate characteristics of pollen grain of angiosperms. 10