

Bankura University

B.Sc 5th SEMESTER(Honours) EXAMINATION, 2021

Subject: BOTANY

Course ID: 51311

Course Code: SHBOT/501/C-11

Course Title: Reproductive biology of Angiosperm & palynology.

Full Marks: 25

Time : 1 h 15 min

The figures in the margin indicate full marks

Answer all the questions.

UNIT I

1. Answer *any five* of the following questions: (1X5=5)

- a) Define self-incompatibility?
- b) What is tapetum?
- c) What is chalaza?
- d) What do you mean by false polyembryony?
- e) In which plant Circinotropous types of ovule is found?
- f) Define Megasporogenesis?
- g) What is Allium type of embryo-sac?
- h) What do you mean by open type style?

UNIT II

2. Answer *any two* of the following questions: (5X2=10)

- a) What is Pseudomonad? What are Heteromorphism and Herkogamy?
- b) What is aril and hypostase? Mention different features of GSI.
- c) Write name of two pollen wall proteins. What is cybrid?
- d) "Flower is a modified determinate shoot" - Explain.

UNIT III

3. Answer *any one* of the following questions: (10X1=10)

- a) Describe with suitable diagram the crucifer type of dicot embryo development. Define parthenocarpy.
- b) Describe with suitable diagram the polygonum type of female gametophyte development.