उत्तर बङ्ग

विश्वविद्यालय

'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 5th Semester Examination, 2021

CC11-BOTANY

Time Allotted: 2 Hours   Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

1.   Answer any *five* questions from the following: 1×5 = 5

   (a) What are pollinia?

   (b) What is aril?

   (c) Name one gene for flower development in Angiosperms.

   (d) Give an example of bisporic Embryo Sac.

   (e) What is the function of suspensor?

   (f) Mention the role of jaculators in seed dispersal.

   (g) Give an example of homomorphic self-incompatibility.

   (h) What do you mean by "atreme" pollen grain?

GROUP-B

2.   Answer any *three* questions from the following: 5×3 = 15

   (a) Discuss about the structure of Pollen Wall.   5

   (b) Describe the structure of Stigma and its modifications.   5

   (c) Differentiate Chalazogamy and Porogamy.   5

   (d) Write a short note on Cybrid.   5

   (e) Describe how heteromorphism in flowers promote cross pollination. 5

GROUP-C

3.   Answer any *two* questions from the following: 10×2 = 20

   (a) Give an outline of the NPC system of pollen classification.   10

   (b) Give a concise account of the embryo development process seen in *Capsella*   10
       bursa-pastoris.

   (c) What is polyembryony? Describe different types of polyembryony with suitable   10
       examples.

   (d) "Flower is a modified determinate shoot" — Explain with suitable examples and   10
       diagrams.

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