RANIGANJ GIRLS' COLLEGE

MODEL QUESTIONS-II

BOTANY [HONOURS]

SEMESTER-II

PAPER- CC-IV (Morphology and Plant Anatomy) Course code: BSCHBOTC204

F.M: 40 Time: 2 Hours

The figure in the right-hand margin indicates marks.

Candidates are required to give their answer in their own words as far as practicable.

1. Answer any five questions of the following: 1×5=5
   (a) What is the ploidy level of endosperm?
   (b) Define syngynia with example.
   (c) Define campylotropus ovule.
   (d) Define aril and caruncle with example.
   (e) Define chalazogamy.
   (f) What is obturator?
   (g) Name one eminent Indian embryologist with his contribution.
   (h) What is half-bordered pit?
   (i) Define leaf trace.
   (j) Define alburnum.
2. Answer any five questions of the following: 2×5=10
   (a) What do you mean by 'Fibronacci series'?
   (b) Distinguish between nuclear and cellular endosperm.
   (c) Define verticillaster inflorescence with example.
   (d) Define gynostagium.
   (e) Distinguish between opposite decussate and opposite superposed phyllotaxy.
   (f) What is histogen theoty?
   (g) Distinguish between intraxylary and extraxylary fibres.
   (h) Distinguish between haplochilic and syndetochelic stomata.
   (i) Distinguish between protoderm and procambium.
   (j) Define bulliform cells. Mention its function.
3. Answer any three questions of the following: 5×3=15
   (a) With suitable examples describe different types of stipules. What is stiple? 4+1=5
   (b) Justify that 'Flower is a modified shoot'.
   (c) With examples describe different types of schizocarpic fruits. Distinguish between sorosis and syconus. 4+1=5
   (d) With suitable diagram describe the process of periderm formation. Define polyderm. 4+1=5

(e) How does intrastellar secondary growth take place in dicot stem? What is Duramen? 4+1=5

4. Answer any one questions of the following: 10×1=10

(a) Distinguish between ptyxis and vernation proper. With suitable examples describe the modification of leaf. 2+8=10

(b) Distinguish between racemose and cymose inflorescence. Briefly describe different types of special inflorescence with examples. 4+6=10

(c) Compare the anomalous secondary growth in Bignonia and Boerhaavia stem. 5+5=10