RANIGANJ GIRLS' COLLEGE

MODEL QUESTIONS-I

BOTANY [HONOURS]

SEMESTER-III

PAPER- CC-VII (Pteridophyte and Gymnosperm) Course code:

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:

 $1\times5=5$

- (a) What is organ sui generis?
- (b) Name protocormous species of Lycopodium
- (c) Define coenosorus?
- (d) Name a Pteridophyte used to trest insomnia.
- (e) Define girdling leaf trace.
- (f) What is Lagenostome?
- (g) Define Copal.
- (h) What is sulphur shower?
- 2. Answer any five questions of the following:

 $2 \times 5 = 10$

- a. Mention the stelar types found in *Lycopodium sp*.
- b. Define Rhizophore.
- c. What is plicate parenchyma?
- d. Write 2 fern character of Cycas.
- e. What is canada balsam and from where it is obtained?
- f. Write the different organ genera of Williamsonia.
- g. Define tent pole structure.
- h. What is the chromosome number of endosperm of gymnosperm and why?

3. Answer any three questions of the following:

 $5 \times 3 = 15$

- (a) Describe with neat sketches the vegetative and reproductive features of *Rhynis sp*.
- (b) Describe the development of msle gametophyte of Pinus. Mention its xerophytic features. 4+1
- (c) Describe with proper diagram the anatomical details of spore bearing organ of *Equisetum*.
- (d) State the enation theory of Bower.
- (e) Write the morphological nature of ovuliferous scales of *Pinus*.
- 4. Answer any one questions of the following:

 $10 \times 1 = 10$

- (a) Describe with proper anatomical labelled diagram the sporocsrp of *Marsilea*. State the different views of morphological nature of sporocarp. 7+3=10
- (b) Compare the development of male gametophyte of *Cycas and Pinus*.
- (c) Mention the geological and geographical distribution of *Glossopteris*. Describe in breif its different organ genera

2+8=10