



IV. Answer the following questions each in about 50 words (5 x 1 = 5)

16. Expand ICBN.
17. What is gynandrophore?
18. Write the economic importance of *Ferula asafoetida*.
19. Distinguish between crassinucellate and tenuinucellate type of ovules.
20. What is parthenocarpy?

**PART – B**

Answer any five of the following each in about 350 words. (5 x 8 = 40)

21. Describe the floral characters of the families Solanaceae and Euphorbiaceae.
22. Write short notes on herbarium techniques.
23. Using indented key, classify the following plants by selecting sets of characters.  

<i>Cleome viscosa</i>	<i>Catharanthus roseus</i>
<i>Datura metal</i>	<i>Mangifera indica</i>
<i>Amaranthus viridis</i>	<i>Cucurbita pepo</i>
24. State the economic importance of any two spices and cereals.
25. Write the botanical name, family, morphology of useful parts and uses of any four fibre yielding plants.
26. Give an account of development of male gametophyte.
27. Briefly describe the process of fertilization.
28. Describe the structure and development of polygonum type of female gametophyte.

**PART – C**

Answer the following questions each in about 1500 words. (2 x 20 = 40)

29. (a) Compare the salient features of the families Anacardiaceae and Cucurbitaceae.  
OR  
(b) Write an essay on the role of biochemicals in systematics.
30. (a). Explain the following :
  - i. self and cross pollination (6 marks)
  - ii. contrivances for self and cross pollination (8 marks)
  - iii. modes of cross pollination (6 marks)OR  
(b) i. Describe the structure and development of cellular and helobial endosperm (10 marks)  
ii. Give an account of monocot embryo development. (10 marks)

\*\*\*\*\*