



Total No. of Printed Pages-2

Regd. No.

960

Part III BOTANY, Paper - I

(English Version)

Time : 3 Hours]

Note :--

[Max. Marks: 60

5

62

:- Read the following instructions carefully :

- (i) Answer all the questions of Section A. Answer ANY SIX questions out of eight in Section B and Answer ANY TWO questions out of three in Section C.
 - (ii) In Section A, questions from Sl. Nos. 1 to 10 are of 'very short answer type'. Each question carries TWO marks. Every answer may be limited to 5 lines. Answer all the questions at one place in the same order.
 - (iii) In Section B, questions from Sl. Nos. 11 to 18 are of 'short answer type'. Each question carries FOUR marks. Every answer may be limited to 20 lines.
 - (iv) In Section C, questions from Sl. Nos. 19 to 21 are of 'long answer type'. Each question carries EIGHT marks. Every answer may be limited to 60 lines.
 - (v) Draw labelled diagrams, wherever necessary for questions in Sections B and C.

SECTION A

 $10 \times 2 = 20$

Note :- Answer ALL the questions. Each answer may be limited to 5 lines. 1. Which is the largest Botanical Garden in the world ? Name a few well Known Botanical Gardens in India.

2., Who proposed five kingdom classification ? How many kingdoms of this classification contain eukaryotes ?

0127-A

P.T.O.

Which group of plants is called vascular cryptogams ? Name the branch of Botany which deals with them.

Name any two plants having single seeded dry fruits.

- Differentiate actinomorphic flower from zygomorphic flower.
- What is Natural system of plant classification ? Name the scientists who followed it.
- An anther has 200 pollen mother cells. How many pollen grains are produced maximum from them ?

What is the function of polysome ?

- Glycine and Alanine are different with respect to one substituent on α (Alpha) carbon. What are those substituent groups ?
- Hydrophytes show reduced Xylem. Why ?

SECTION B

Note :-- Answer ANY SIX questions. Each answer may be limited to 20 lines.

11. Differentiate between red algae and brown algae.

12. Give a brief account of Dinoflagellates.

(13) . Write briefly about the different types of ovules.

Describe the essential organs of Solanaceae.

Describe the structure of nucleus.

· Explain prophase-I of meiosis.

State the location and function of different types of meristems.

What are hydrophytes ? Briefly discuss the different kinds of hydrophytes with the examples.

SECTION C

 $2 \times 8 = 16$

 $6 \times 4 = 2.4$

Note :--Answer ANY TWO questions. Each answer may be limited to 60 lines. 19. Explain different types of racemose inflorescences.

Ø.

9.

14.)

15.

175

- With neat labelled diagram, describe the parts of mature embryo sac. Mention the role of synergids.
- 21.
 - What are complex tissues ? Describe various types of complex tissues.

0127-A