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OPSC Assistant Conservator of Forests

Previous Year Paper
(ACF) 2015
Botany Paper-I

Time : 3 hours

Full Marks : 200

The figures in the right-hand margin indicate marks.

Candidates should attempt Q. No. 1 from

Section – A and Q. No. 5 from Section – B

*which are compulsory and any **three** of*

the remaining questions, selecting

*at least **one** from each Section.*

SECTION – A

1. Answer any **two** of the following in not more than 200 words each :   20×2 = 40

  (a) Give an account on pathogenic viruses.

  (b) Enumerate and explain Koch's postulates.

  (c) Describe, in brief, about vermicomposting for agricultural waste.

2. Write short notes on the following :　　20×2 = 40

   (a) Characteristics of different classes of algae with example

   (b) Green ear disease of Bajra

3. Answer the following in about **200** words each :
   20×2 = 40

   (a) Discuss reproduction in Bryophyta with emphasis on sexual reproduction.

   (b) Give an account on different Stelar system in ferns.

4. Write short notes on the following :　　20×2 = 40

   (a) Polyembryony in Gymnosperms

   (b) Development of endosperm in Angiosperms

SECTION – B

5. Answer any **two** of the following in **200** words each :　　20×2 = 40

   (a) Discuss the salient features of family compositae. Give examples.

   (b) Discuss Kranz anatomy and its role in plants.

   (c) Explain Megasporophylls of cycas with diagrams.

6. Write short notes on the following : 20×2 = 40

   (a) Technique of preparing Herbarium

   (b) Anomalous secondary growth in plants

7. Answer the following in about **200** words each :

                                20×2 = 40

   (a) Give process and importance of protoplast culture.

   (b) Give detailed account of morphogenesis.

8. Write short notes on the following : 20×2 = 40

   (a) Economic importance of Angiospermic plants

   (b) Root knot disease

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