

FS – 7 / 15-16

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 : $20 \times 2 = 40$
- (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 : $20 \times 2 = 40$
- (a) Characteristics of different classes of algae with example
 - (b) Green ear disease of Bajra
3. Answer the following in about **200** words each : $20 \times 2 = 40$
- (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 : $20 \times 2 = 40$
- (a) Polyembryony in Gymnosperms
 - (b) Development of endosperm in Angiosperms

SECTION – B

5. Answer any **two** of the following in **200** words each: $20 \times 2 = 40$
- (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 : $20 \times 2 = 40$
- (a) Technique of preparing Herbarium
 - (b) Anomalous secondary growth in plants
7. Answer the following in about **200** words each : $20 \times 2 = 40$
- (a) Give process and importance of protoplast culture.
 - (b) Give detailed account of morphogenesis.
8. Write short notes on the following : $20 \times 2 = 40$
- (a) Economic importance of Angiospermic plants
 - (b) Root knot disease



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- (a) Technique of preparing Herbarium
- (b) Abnormal secondary growth in plants

7. Answer the following in about 200 words each :

$20 \times 2 = 40$

- (a) Give process and importance of protoplast culture.
- (b) Give detailed account of morphogenesis.

8. Write short notes on the following : $20 \times 2 = 40$

- (a) Economic importance of Angiospermic plants
- (b) Root knot disease

