

2/EH-62 (ii) (Syllabus-2015)

2 0 1 6

(April)

BOTANY

(Elective/Honours)

SECOND PAPER

**(Gymnosperm, Paleobotany, Morphology
and Anatomy)**

Full Marks : 56

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

**Answer Question No. 1 which is compulsory and four
from the remaining, selecting one from each section**

1. Give accounts of the following : 4×4=16

- (a) Economic importance of gymnosperms*
- (b) Aestivation types*
- (c) Fascicular and interfascicular cambium*
- (d) Williamsonia seawardiana*

(2)

SECTION—I

2. Discuss the development of male gametophyte in *Pinus*. 10
3. Discuss the following : 5×2=10
- (a) Affinities of gymnosperms with pteridophytes
- (b) Angiospermic characters of *Gnetum*

SECTION—II

4. What are the different eras in the geological time scale? Discuss the dominant Jurassic flora. 2+8=10
5. What are fossils? Describe the different types of fossilisation processes. 2+8=10

SECTION—III

6. With the help of suitable diagrams, describe the different types of inflorescence. 10
7. What is a stamen? Discuss its evolutionary trends. 1+9=10

(3)

SECTION—IV

8. Give an illustrated account of the different types of stomata in angiosperms. 10
9. Write notes on the following : 5+5=10
- (a) Components of xylem
- (b) Tunica-carpus theory
