

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

2 0 1 8

(April)

BOTANY

(Elective/Honours)

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

(BOTELH-201)

Marks : 56

Time : 3 hours

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

Answer **five** questions in total including
Question No. **1** which is compulsory and select
remaining **four** questions, **one** from each Section

1. Write short notes on the following : $4 \times 4 = 16$

- (a) Male cone of *Cycas*
- (b) Geological timescale
- (c) Different types of aestivation in angiosperm
- (d) Components of xylem

SECTION—I

2. Describe the development of male gametophyte of *Pinus*. 10
3. "*Gnetum* is a gymnosperm, but exhibits closeness with angiosperms." Discuss. 10

SECTION—II

4. Describe the factors and process of fossilization. 4+6=10
5. Describe the dominant Jurassic flora. 10

SECTION—III

6. Give different types of cymose inflorescence in angiosperms with examples. 10
7. Give an account of the evolutionary trends of stamens in angiosperms. 10

SECTION—IV

8. Describe different types of stomata in angiosperms with diagrams. 10
9. Describe anomalous secondary growth in the stem of *Dracaena* and *Mirabilis*. 5+5=10
