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AO—61—2018

FACULTY OF SCIENCE

B.Sc. (Second Year) (Fourth Semester) EXAMINATION

MARCH/APRIL, 2018

(CBCS/CGPA Course)

BOTANY

Paper VIII

(Gymnosperm and Palaeobotany)

(MCQ & Theory)

(Saturday, 24-03-2018)

Time : 2.00 p.m. to 4.00 p.m.

Time—2 Hours

Maximum Marks—40

N.B. :— (i) Attempt all questions.

(ii) All questions carry equal marks.

(iii) Choose the correct answer for MCQ.

MCQs

1. Choose the correct answer :

10

(i) In gymnosperms fruits are absent because :

(a) They are seedless

(b) Process of fertilization does not present

(c) They are not pollinated

(d) Ovary is absent

(ii) All gymnospermic plants are :

(a) Shrubs

(b) Woody

(c) Herbs

(d) None of these

(iii) In Cycas ovules are :

(a) Anatropous

(b) Orthotropous

(c) Campylotropous

(d) Amphitropous

(iv) Male Cycas stem is :

(a) Monopodium

(b) Sympodium

(c) Apodium

(d) None of these

(v) Needle types of foliage leaves are present in :

(a) Cycas

(b) Gnetum

(c) Pinus

(d) Ginkgo

P.T.O.

- (vi) Pinus belongs to the class :
 (a) Cycadophyta (b) Gnetopsida
 (c) Coniferopsida (d) Pteropsida
- (vii) Wage-shaped V.B. are found in :
 (a) Cycas (b) Pinus
 (c) Gnetum (d) All of these
- (viii) Xylem vessels are present in :
 (a) Cycas (b) Pinus
 (c) Ginkgo (d) Gnetum
- (ix) Era of ancient life regarded as :
 (a) Archaeozoic (b) Proterozoic
 (c) Paleozoic (d) Cenozoic
- (x) Father of Indian Palaeobotany is :
 (a) Birbal Sahani (b) Ranganathan
 (c) Shivram Kashap (d) Arnold

Theory

2. Describe the sexual reproduction process in Cycas. 10

Or

Write in brief on :

- (a) T.S. of Cycas pinna
 (b) Microsporophyll of Cycas

3. Describe the female reproductive structure in Pinus. 10

Or

Write in brief on :

- (a) External morphology of Pinus.
 (b) Economic importance of Pinus.

4. Describe the external and internal structure of Gnetum leaf. 10

Or

Write in brief on :

- (i) Impression
 (ii) Geological time scale