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B—81—2019

FACULTY OF SCIENCE

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

MARCH/APRIL, 2019

(CBCS/CGPA)

BOTANY

Paper VIII

(Gymnosperms and Palaeobotany)

(MCQ+Theory)

(Wednesday, 27-3-2019)

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 MCQs.

(MCQ)

1. (i) The naked ovules are present in
(A) Angiosperms (B) Pteridophyta
(C) Gymnosperm (D) Bryophyta
- (ii) In gymnosperm type of pollination is
(A) Bat pollination (B) Zoophily
(C) Entomophily (D) Anemophily
- (iii) The young leaves juice of cycas is used in the treatment of
(A) skin diseases (B) vomating of blood
(C) stomach disorder (D) all of these
- (iv) Sago starch is yield by
(A) Pinus (B) Genetum
(C) Cycas (D) Ginkgo

P.T.O.

- (v) In *Pinus merkussi* species the foliar leaves are
- (A) monofoliar (B) bifoliar
(C) trifoliar (D) pentafoliar
- (vi) Wing shaped microspores are found in
- (A) Pinus (B) Cycas
(C) Gnetum (D) Ginkgo
- (vii) In Genetum leaves venation is
- (A) Reticulate (B) Parallel
(C) Circinate (D) Vexillary
- (viii) Resin canal cells are absent in
- (A) Pinus root (B) Pinus stem
(C) Genetum stem (D) All of these
- (ix) Era of modern life regarded as
- (A) Cenozoic (B) Palaeozoic
(C) Archeozoic (D) Proterozoic
- (x) Fossils serve as tools for studies of
- (A) Palynology (B) Cytology
(C) Genetics (D) Palaeobotany

(Theory)

2. What is secondary growth ? Describe secondary growth in cycas stem. 10

Or

Write in brief on :

- (a) Male cone of cycas
(b) Economic imp. of cycas.

3. Describe the male reproductive structure in Pinus. 10

Or

Write in brief on :

- (a) T.S. of pinus needle
- (b) Morphological characters of Pinus.

4. Describe the T.S. of Genetum stem. 10

Or

Write in brief on :

- (a) Petrification
- (b) General characters of Ginkgo.