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**W—70—2018**

**FACULTY OF SCIENCE**

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

**OCTOBER/NOVEMBER, 2018**

**(CBCS/CGPA Pattern)**

**BOTANY**

**Paper VIII**

**(Gymnosperms and Paleobotany)**

**(MCQ & Theory)**

**(Tuesday, 16-10-2018)**

**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 MCQs.*

**MCQ**

1. Multiple Choice Questions :

10

(i) The word Gymnosperms was firstly used by :

(a) Aristotle

(b) Sporne

(c) Theophostus

(d) Linnaeus

(ii) Except Gnetum in Gymnospermic plants xylem lacks :

(a) Vessels

(b) Tracheids

(c) Xylem parenchyma

(d) Xylem fibres

(iii) The number of neck canal cells in cycas are :

(a) One

(b) Two

(c) Four

(d) Nil

P.T.O.

- (iv) The coralloid roots of cycas shows association with :
- |                |                   |
|----------------|-------------------|
| (a) Fungi      | (b) Cyanobacteria |
| (c) Mycoplasma | (d) All of these  |
- (v) In pinus leaves are :
- |                |                 |
|----------------|-----------------|
| (a) Unipinnate | (b) Dimorphic   |
| (c) Palmate    | (d) Paripinnate |
- (vi) Pinus is :
- |               |                   |
|---------------|-------------------|
| (a) Dioecious | (b) Monoecious    |
| (c) Bisexual  | (d) None of these |
- (vii) Archegonia are absent in :
- |           |                  |
|-----------|------------------|
| (a) Cycas | (b) Gnetum       |
| (c) Pinus | (d) All of these |
- (viii) Gnetum montanum species is used as :
- |                   |                 |
|-------------------|-----------------|
| (a) Weedicide     | (b) Fish poison |
| (c) Animal poison | (d) Bird poison |
- (ix) Era of primitive life regarded as :
- |               |                |
|---------------|----------------|
| (a) Paleozoic | (b) Mesozoic   |
| (c) Canozoic  | (d) Archeozoic |
- (x) The fossil created by deposition of hard sediment around plant fragments is :
- |                 |                   |
|-----------------|-------------------|
| (a) Cast        | (b) Petrification |
| (c) Compression | (d) Impression    |

### Theory

2. Describe in detail T.S. of Cycas Pinna.

10

Or

Write in brief on :

- (a) Primary growth in cycas stem  
 (b) Megasporophyll of cycas.

3. Define secondary growth. Describe secondary growth in pinus old stem. 10

*Or*

Write in brief on :

- (a) Structure of Pinus ovule
- (b) Xerophytic characters of Pinus.

4. Describe in detail anatomical structure of Gnetum stem. 10

*Or*

Write in brief on :

- (a) Compression
- (b) Process of fossilization.