

This question paper contains 3 printed pages]

AO—79—2018

FACULTY OF SCIENCE

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

MARCH/APRIL, 2017

(CBCS/CGPA)

BOTANY

Paper VII

(Histology, Anatomy and Embryology of Angiosperms)

(MCQ & Theory)

(Wednesday, 28-03-2018)

Time : 2.00 p.m. to 4.00 pm

Time—2 Hours

Maximum Marks—40

N.B. :— (i) Attempt all questions.

(ii) All questions carry equal marks.

(iii) Draw neat and well labeled diagrams wherever necessary.

MCQ

1. Multiple Choice Questions :

10

(i) Apical Cell Theory is proposed by.....

(a) Nageli

(b) Hanstein

(c) Schmidt

(d) Schuepp

(ii) Lateral meristem is.....

(a) Cambium

(b) Root hair

(c) Root apex

(d) Shoot apex

(iii) Stellate parenchyma is common in petiole of.....

(a) Canna

(b) Hydrilla

(c) Nerium

(d) Casuarina

P.T.O.

- (iv) Stem is developed from.....
- (a) Radicle (b) Plumule
(c) Coleoptile (d) Seedling
- (v) Vascular bundles in dicot stem are.....
- (a) Canjoint (b) Collateral
(c) Open (d) All the above
- (vi) The main body of ovule is.....
- (a) Nucellus (b) Chalaza
(c) Micropyle (d) Funicle
- (vii) Pollen grains with elongated germ pores are called.....
- (a) Porate (b) Calpate
(c) Colporate (d) None of these
- (viii) Bisporic embryo sac is present in.....
- (a) Polygonum (b) Allium
(c) Adoxa (d) Oenothera
- (ix) The embryo sac is also called as.....
- (a) Male gametophyte (b) Female gametophyte
(c) Gametophyte (d) Megaspore
- (x) Tetrasporic embryo sac is present in.....
- (a) Polygonum (b) Allium
(c) Adoxa (d) Oenothera

Theory

2. What is complex tissue ? Describe in detail Xylem.

10

Or

Write short notes on :

- (a) Sclerenchyma
(b) Types of vascular bundle

WT

(3)

AO—79—2018

3. Describe normal secondary growth in sunflower stem. 10

Or

Write short notes on :

- (a) Pollination
- (b) L.S. of Anatropous ovule

4. What is endosperm ? Describe helobial endosperm. 10

Or

Write short notes on :

- (a) T.S. anther
- (b) Post fertilization changes.

AO—79—2018

3