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**V—80—2017**

**FACULTY OF SCIENCE**

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

**OCTOBER/NOVEMBER, 2017**

**(CBCS/CGPA Pattern)**

**BOTANY**

**Paper VII (CCB-III)**

**(Histology, Anatomy and Embryology of Angiosperms)**

**(MCQ & Theory)**

**(Tuesday, 14-11-2017)**

**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) Draw neat and well labelled diagrams wherever necessary.

**MCQ**

1. Multiple Choice Questions : 10
- (i) Apical meristem is :
- (a) Root apex (b) Root hair  
(c) Cambium (d) All of these
- (ii) Tunica corpus theory is proposed by :
- (a) Nageli (b) Hanstein  
(c) Schmidt (d) Schuepp
- (iii) Storage parenchyma commonly present in :
- (a) Stem tubers (b) Rhizomes  
(c) Root tubers (d) All of these

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- (iv) Stem is developed from :
- (a) Radicle (b) Plumule  
(c) Seedling (d) Coleoptile
- (v) Vascular bundles in dicot root are :
- (a) Radial (b) Tetrach  
(c) Exarch (d) All of these
- (vi) The pollen grains with elongated germ pores are called as :
- (a) Porate (b) Colpate  
(c) Colporate (d) None of these
- (vii) The embryo sac of ovule contains :
- (a) Antipodal cells (b) Definitive nucleus  
(c) Egg apparatus (d) All of these
- (viii) Normal type of embryo sac is :
- (a) Monosporic (b) Bisporic  
(c) Tetrasporic (d) None of these
- (ix) The seed coat is developed from :
- (a) Testa (b) Tegmen  
(c) Testa and Tegmen (d) None of these
- (x) Stalk of a mature seed is developed from :
- (a) Funicle (b) Plumule  
(c) Radicle (d) Cotyledon

### Theory

2. Describe in detail L.S. of root apex.

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Or

Write short notes on :

- (a) Types of vascular bundle  
(b) Collenchyma.

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3. Describe internal structure of monocot leaf. 10

*Or*

Write short notes on :

(a) Structure of pollen grain

(b) Types of ovule.

4. What is endosperm ? Describe cellular endosperm. 10

*Or*

Write short notes on :

(a) Pollination

(b) Development of Seed.

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