

This question paper contains 3 printed pages]

**BF—85—2016**

**FACULTY OF SCIENCE**

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

**OCTOBER/NOVEMBER, 2016**

**BOTANY**

**Paper VII**

(Histology, Anatomy and Embryology of Angiosperms)

(MCQ + Theory)

**(Friday, 21-10-2016)**

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

*Time—2 Hours*

*Maximum Marks—10+30=40*

*N.B. :—(i) Attempt All questions.*

*(ii) All questions carry equal marks.*

*(iii) Choose correct answer.*

**MCQ**

1. Multiple Choice Questions : 10

(1) A group of parenchymatous cells which store large amount of starch is called .....

- (a) Aerenchyma (b) Storage parenchyma  
(c) Chlorenchyma (d) Stellate parenchyma

(2) Aerenchyma is found in .....

- (a) Mongifera (b) Helianthus  
(c) Cycas (d) Hydrilla

(3) In monocot stem vascular bundles are .....

- (a) Collateral (b) Concentric  
(c) Radicle (d) Scattered

(4) Xylem is a ..... tissue.

- (a) Secretory (b) Simple  
(c) Complex (d) Meristematic

P.T.O.

- (5) In dicot stem the interfascicular cambium develops by ..... .  
 (a) Secondary cortex (b) Cortex  
 (c) Medullary rays (d) Pericycle
- (6) The ovule with two integuments is called ..... .  
 (a) Ategmic (b) Bitegmic  
 (c) Unitegmic (d) Tetrategmic
- (7) A small opening at the apex of ovule is called ..... .  
 (a) Micropyle (b) Chalara  
 (c) Funicle (d) Raphe
- (8) When the pollen tube enters into the ovule through the integument the condition is known as ..... .  
 (a) Porogamy (b) Chalazogamy  
 (c) Mesogamy (d) All of these
- (9) The inner seed coat is called as ..... .  
 (a) Testa (b) Tegman  
 (c) Hillum (d) Funicle
- (10) The seed with endosperm is called as ..... .  
 (a) Endospermic seed (b) Perispermic seed  
 (c) Meristematic seed (d) All of these

### Theory

2. What is permanent tissue ? Explain in detail complex tissue. 10

*Or*

Write short notes on :

- (i) Classification of meristems based on position  
 (ii) Parenchyma.
3. Explain in detail primary structure of leaf. Add a note on T.S. of sunflower leaf. 10

*Or*

Write short notes on :

- (i) T.S. of Maize Root
- (ii) T.S. of Monocot Stem.

4. Describe in detail polygonum type of monosporic embryo-sac. 10

*Or*

Write short notes on :

- (i) T.S. of Anther
- (ii) Pollination.