W—91—2018

FACULTY OF SCIENCE

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

OCTOBER/NOVEMBER, 2018

(CBCS/CGPA Course)

BOTANY

Paper-VII

(Histology, Anatomy and Embryology of Angiosperms)

(MCQ+Theory)

(Saturday, 20-10-2018)	Time : 2.00 p.m. to 4.00 p.m.

Time—Two 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   10

1.   Multiple Choice Questions :

     (*i*)   Lateral meristem is ....

         (*a*)   Cambium   (*b*)   Root hair

         (*c*)   Root apex   (*d*)   Shoot apex

     (*ii*)   Histogen theory is proposed by ....

         (*a*)   Nageli   (*b*)   Hanstein

         (*c*)   Schmidt   (*d*)   Schuepp

     (*iii*)   Apical meristem is ....

         (*a*)   Root apex   (*b*)   Root hair

         (*c*)   Cambium   (*d*)   None of these

                                               P.T.O.

(*iv*) Roots are developed from ....

    (*a*)   Radicle   (*b*)   Plumule

    (*c*)   Seedling   (*d*)   Coleoptile

(*v*) Vascular bundles in dicot stem are ....

    (*a*)   Conjoint   (*b*)   Collateral

    (*c*)   Open   (*d*)   All of these

(*vi*) The pollen grains with cricular germ pores are called ....

    (*a*)   Porate   (*b*)   Colpate

    (*c*)   Colporate   (*d*)   None of these

(*vii*) The main body of ovule is ....

    (*a*)   Nucellus   (*b*)   Chalaza

    (*c*)   Micropyle   (*d*)   Funicle

(*viii*) The 8-nucleate monosporic embryo sac is present in ....

    (*a*)   Polygonum   (*b*)   Allium

    (*c*)   Adoxa   (*d*)   Oenothera

(*ix*) The ovule in which spore mother cell is hypodermal in position is called ....

    (*a*)   Crassinucellate   (*b*)   Tenninucellate

    (*c*)   Archesporium   (*d*)   Parietal

(*x*) PEN is acronym of ....

    (*a*)   Primitive endosperm nucleus

    (*b*)   Primary endosperm nucleus

    (*c*)   Secondary endosperm nucleus

    (*d*)   Tertiary endosperm nucleus

Theory

2. Define meristem. Describe classification of meristem. 10

Or

Write short notes on :

(*a*) Vascular bundles in monocot stem

(*b*) Laticiferous tissue.

3. Describe internal structure of dicot leaf. 10

Or

Write short notes on :

(*a*) T.S. of anther

(*b*) L.S. of typical ovule.

4. What is endosperm ? Describe nuclear endosperm. 10

Or

Write short notes on :

(*a*) Structure of pollen grain

(*b*) Significance of double fertilization.