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## SUBJECT CODE NO:- B-2160 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. F.Y (Sem.-II) Examination OCT/NOV 2019 Botany Paper-V

Histology, Anatomy and Embryology

[Time:	Three Hours]	[Max.Marks:50
N.B	Please check whether you have got the right question paper.  i) Attempt all questions.  ii) Draw neat and well – labeled diagrams whenever necessary.	
	ii) Braw near and weir medical diagrams whomever necessary.	
Q.1	Describe Various theories for Root Apex organization  OR	20
	Describe microsporogenesis and development of male gametophyte	20
Q.2	Describe in detail the T. S of Dicot leaf.  OR	20
	Write short Notes on (any four) a) Anemophily	20
	b) L.S. of orthotropous ovule. c) Collenchyma d) Structure of phloem e) Structure of Dicot and monocot seed f) Helobial type of endosperm	
Q.3	Multiple choice questions.  1) When xylem is surrounded by phloem the vascular bundle is called a) Collateral b) Radial c) Amphiceribal d) Amphivasal  2) Wood is the common name of a) Cambium b) Vascular bundles c) Phloem d) secondary xyle	10 em
	<ul> <li>3) Sap wood differ from heart wood in being</li></ul>	

5) In fertilization -			EN TON TO		
a) synergids fuse	with the antipodal	cell.			
b) The egg cell f	uses with antipoda	l cell.			
,	ferred to the stigma				
	leus fuses with the				
6) The entry of pol	len tube into ovule	through micropyle is	called		
a) mesogamy	b) Anisogamy	c) Porogamy d)	chalazogamy		
		97.70 pt (6)			
7) A microspore mother cell forms					
a) An ovule	b) Embryo sac	c) Pollen sac d) Po	ollen grains		
O) A.C C(1!4!-			(2, 12, 0)x (0, 7)x (0, 7)x (0, 1)		
8) After fertilizatio			2, 4, 6, 7, 0, 10, 10, 10, 10, 10, 10, 10, 10, 10,		
a) Integuments	b) Embryo sac	c) chalaza	d)Ovule		
9) In angiosperms i	free nuclear divisio	n occurs during			
a) Gamete formati			rmation		
		b) Embryo formation			
c) Endosperm form	nation	d) flower form	lation		
10) Pollination whi	ch can occur in the	same plant is			
a) Herkogamy			d) Dicliny.		