2023

2. Give an account ("PDUYAu)ture and types of seeds. Add ("refreed" briefs and seeds.

BOTANY

(Minor)

3. Write short notes on the following Paper Code.: BCM-03

(Morphology and Anatomy of Angiosperms)

Full Marks: 75 Pass Marks: 40%

conlight tooms Time: 3 hours town vittant

(PART : B—DESCRIPTIVE)

(*Marks* : 50)

The figures in the margin indicate full marks

for the questions of the descriptions of the description of the description

UNIT-I

1. Describe the structure and modification of leaves with examples margaib planting ritim

(Turn Over)

01=8-50

Bs/BCM-03

(2)

Or o

2. Give an account on the structure and types of seeds. Add a note on the dispersal of fruits and seeds.

HAATOS

UNIT-II

3. Write short notes on the following: $5\times2=10$

(a) Structure of flower

(b) Types of aestivation

Or

4. Justify flower as a modified shoot. Explain cohesion of floral parts. 7+3=10

Marks 50)

UNIT-III

5. What are secretory tissues? Discuss different types of secretory tissues in plants.

1+9=10

Or

6. Discuss different types of vascular bundles with suitable diagrams.

(Continued)

(3)

UNIT-IV

7. Describe the arrangement of primary tissues in dicot and monocot stem with suitable diagrams.

5+5=10

Or

8. Briefly explain different theories on apical organization of shoots.

UNIT-V

9. Define dendrochronology. Explain the structure, function and seasonal activity of cambium. 1+9=10

Or

10. Write short notes on the following: $5\times2=10$

(a) Sapwood and heartwood

(b) Secondary growth in stem

* * *

Bs/BCM-03

24L-200/411a

4L/411a

3. The development of the second seco	b A .S.
(FYUGP)	
wheat () () are seed to	(α)
(3rd Semester)	/ -Ps
BOTANÝ	(a)
(Minor)	(0)
Paper Code. : BCM-03	(b)
(Morphology and Anatomy of Angiosperms	51.5
telling is the first of the same same of the same same same same same same same sam	3. Beb
(PART : A—OBJECTIVE)	(a)
(Marks : 25)	
dicot ()	The state of the s
The figures in the margin indicate full marks for the o	
Eymnosperm ()()	(9)
SECTION—I pteridophyte () () () () ()	(d)
(<i>Marks</i> : 15)	
Put a Tick (/) mark against the correct answer in brackets provided:	
Put a Tick (/) mark against the correct answer in brackets provided: 1. Stem tendrils are not seen in	1×15=15
brackets provided: in normal bus otemos in noise are not seen in (a) grapevine (business of the otemos in particular purposes of the otemos	1×15=15 (a)
brackets provided : normal but of motion in noimal states. 1. Stem tendrils are not seen in	(a)
brackets provided: in morasi bus otemos ni noistatas 1. Stem tendrils are not seen in (a) grapevine (b) watermelon (b) watermelon (c)	(a) (b) (d)

/411

Bs/BCM-03/411

2. A drupe develops in SSOS
(a) wheat ()
(b) pea () pea (d)
(c) tomato () (c) tomato () (c) tomato () (c) (c) (c) (c) (c) (c) (c) (c) (c)
(d) mango () Paper Code: BCM-03
(aunequalgna to ymotana ban ygolodgrom) 3. Scutellum is the first leaf of
(a) monocot () toponom (a)
(Marks : 25) () tooib (d) The figures in the margin indicate full marks for the guestions
(c) gymnosperm ()
(d) pteridophyte [I—MOITOSE ())
Put a Tick (~) mark against the correct answer in the
4. Placentation in tomato and lemon is beliving assistant
1. Stem tendrils are not seen in laterial (a)
(a) grapevine () free central (b)
(b) watermelon ()
(c) marginal () () surtice (c)
(d) axile () (b)
25년 1월 25일 1일

5.	The	term 'polyadelphous' is related to a nomino in .8
	(a)	sieve tube elements is () muissonyg
	(b)	androecium () (a) thick secondary walls ()
	(c)	corolla ()
	(d)	(b) pores on lateral walls ((,)) ords (d)
6.	ano	en margins of sepals or petals overlap one other without any particular direction, the dition is termed as
	(a)	vexillary (()) notition condition (b)
	(b)	imbricate ()
	(c)	twisted ()
	(d)	9. The branched sclereids presont it hydronyma
7		major characteristic of the monocot root is the esence of
	(a)	open vascular bundles (d)
	(b)	scattered vascular bundles ()
	(c)	cambium sandwiched between phloem and xylem ()
	(d)	vasculature without cambium oralization) (b)
Bs	BCM-	/BCM-03/411 114\80-

sieve	ommon structural feature of vessel elements is	gy	(a)
(a)	thick secondary walls ()		(b)
(b)	pores on lateral walls ()	so ((d)
(c) >	presence of P-proteinlages (lo) migrem r without any sparticular adjustation is ion is termed as	MILLE	1.29
(d)	enucleate condition () visilize		
(6)	abrocate () () scalin	ni k	5)
Carri	visted () (crespending	n k	5)
	하지만 그 이번 , 1944의 글로마이를 다 보고 있어요? 그런 그렇게 되었다고 있는 수 있는 것이 되었다.		
	branched sclereids present in hydrophyte	es ar	è
	branched sclereids present in hydrophyto	om.	Λ
. The	branched sclereids present in hydrophyte	. ma Wesen	A P
(a)	astrosclereids man ()) astrosclereids man ()) astrosclereids man ()) astrosclereids man () o)	ma Weser a) o	A - 1
(a)	astrosclereids astros	ma meser a) c b) s	A 7

10. Which of the following is true for apical meristem?	
(a) Responsible for primary growth (a)	
(b) Forms primary permanent tissue ()	
(c) Primary meristem () + melledq (a)	
(d) periderm + clrtex) + periderm + clrtex) phloem (1)	
11. Korper-Kappe concept of root apex organization was given by to be que about a gniwellol and lo dointy. 11	
(a) Kylem parenchyma (()) sewolD (a)	
(b) Schuepp (()) qqsudoR (d)	
(c) Hanstein () () malled (5)	
(d) Nageli () () moold (b)	
12. The quiescent centre in root meristem serves as a system serves as a system and near the control of the con	
(a) site of storage of food ()	
(b) reserve for replenishment of damaged cells of the meristem ()	
(c) reservoir of growth hormones	
(d) region for absorption of water boow(189)	
Bs/BCM-03/411	I.

13.	Bar	k refers to which of the following is true for apidw .01
	(a)	
	(b)	
	(c)	
	(d)	periderm + cortex + pericycle + secondary phloem ()
	Was	11. Korper-Kappe concept of root apex organization EiSellaylog of the following is made up of dead/cellaylog.
1	(a)	Xylem parenchyma (())
	(b)	Collenchyma (()) qqeudo (d)
	(c)	Phellem () () melled
37. N	(d)	Phloem () () (b)
15.	In 1 xyla	temperate region plants, the wood with fewer si
y.	(a)	(a) site of storage of food (b)
	(b)	(b) reserve for replenishment of damaged cell the meristern (()) boow gairgs
, in		(c) reservoir of growth hournesses
	(d)	heartwood vater bookspan of water bookspan
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SECTION—II

E. Placentation

(Marks: 10)

Write on the following in few sentences:

 $2 \times 5 = 10$

1. Composite fruit

S. Chemistry very star

2. Placentation

SECTION-II

(Marks: 10)

Write on the following in few sentences: , 2×5=10

1. Composite fruit

On the second

LG. USA Section 19 as Applied to the contract of

star asking goal faith party

The statement with

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No Whicem

The Mr. construction of the contract programs, the Management of

Date in Alaba and the

Control of the second of

Male was the safety to

((9))

3. Complex tissues

land lamblidosi .

4. Isobilateral leaf

3. Complex tissues

(-11)

5. Periderm
