

C.U.SHAH UNIVERSITY

Winter Examination-2015

Subject Name : Plant Morphology & Anatomy

Subject Code :4SC01PMA1

Branch : B.Sc. (Microbiology)

Semester : 1 Date :7/12/2015 Time :10:30 To 1:30 Marks 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1	Attempt the following questions:	(14)
	a) What is difference between anatomy and morphology of plant?	1
	b) What is meristematic tissue	1
	c) Define permanent tissue	1
	d) Enlist types of racemose inflorescence	1
	e) Define phyllotaxy	1
	f) Draw a diagram of raceme and spadix inflorescence	1
	g) What is function of guard cells in stomata?	1
	h) What is flower aestivation?	1
	i) Enlist components of flower.	1
	j) Write down components of flower formula.	1
	k) What is pedicellate flower?	1
	l) What is difference between unisexual flower and bisexual flower?	1
	m) What are zygomorphic flower?	1
	n) Draw a diagram of leaf showing its all components.	1

Attempt any four from Q-2 to Q-8.

Q-2	Attempt all questions	(14)
	A Explain types of permanent tissue in detail with diagram	7
	B Explain types meristematic tissue based on origin and position.	7
Q-3	Attempt all questions	(14)
	A Explain stomata and their function with a diagram.	7
	B Explain tissue system with diagram.	7



Q-4	Attempt all questions	(14)
A	Explain different types of vascular bundle arrangement with diagram.	7
B	Explain types of leaf margin	7
Q-5	Attempt all questions	(14)
A	Explain phyllotaxis in detail.	7
B	Explain basic components of flower in detail with diagram.	7
Q-6	Attempt all questions	(14)
A	Explain types of racemose inflorescence in detail with diagram.	7
B	Explain placentation in flower with diagram.	7
Q-7	Attempt all questions	(14)
A	Explain cymose and special type of inflorescence.	7
B	Explain Dicot leaf with detail.	7
Q-8	Attempt all questions	(14)
A	Explain anatomy of monocot stem with diagram.	7
B	Explain anatomy of dicot root with diagram.	7

