

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name: Cell Biology

Subject Code: 4SC01CEB1

Branch: B.Sc.(All)

Semester: 1

Date : 24/03/2016

Time : 10:30 To 01:30

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 the function of Mitochondria?	1
	b) What is cell?	1
	c) Who discovered cell?	1
	d) Give three examples of unicellular organisms.	1
	e) A cell without nucleus is called_____?	1
	f) What are chromosomes?	1
	g) Define osmotic pressure.	1
	h) Which enzyme is present in lysosomes?	1
	i) What is the difference between rough ER (Endoplasmic reticulum) and smooth ER?	1
	j) Chromosomes are present in chloroplast. True or False?	1
	k) Name the outer most boundary of the cell.	1
	l) Nucleic acids are present in which organelles?	1
	m) Which organelle in plant cell is responsible to receive sunlight energy?	1
	n) What is the arrangement of microtubule in prokaryotic cell?	1

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

Q-2	Attempt all questions	(14)
	a) Draw structure of plant cell and describe each label.	7
	b) Write a note on plasma membrane along with its diagram.	7
 Q-3	 Attempt all questions	 (14)
	Draw structure of animal cell and describe each label.	7
	Explain molecular organization of chromatin.	7
 Q-4	 Attempt all questions	 (14)
	Explain in detail the process of Meiosis.	14



Q-5	Attempt all questions Write a short note on cell cycle. What are different functions of mitochondria explain in detail with diagram.	(14) 7 7
Q-6	Attempt all questions Write a note on organization eukaryotic cell.	(14) (14)
Q-7	Attempt all questions Write a note on golgi apparatus and explain its diagram. Write a note on Chloroplast and explain its diagram.	(14) 7 7
Q-8	Attempt all questions Enlist the differences between Mitosis and Meiosis. Enlist the differences between Eukaryotic cell and Prokaryotic cell.	(14) 7 7

