PARUL UNIVERSITY FACULTY OF APPLIED SCIENCE M.Sc./I.M.Sc.,Winter 2019-20 Examination

VERSITY PLIED SCIENCE 2019-20 Examination Data: 25/11/2010

Enrollment No:_____

M.Sc./I.M.Sc., Winter 2019-20 Examination Semester: M.Sc1/ IM.Sc.7	Date: 25/11/2019
Subject Code: 11201101	Time: 10:30am to 1:00pm
Subject Name: Principle of cell biology	Total Marks: 60
Instructions:	
1. All questions are compulsory.	
2. Figures to the right indicate full marks.	
3. Make suitable assumptions wherever necessary.	
4. Start new question on new page.	
Q.1. A) Essay type/ Brief note (4x2) (Each of 04 marks)	(08)
(a) Describe meiosis process in cell division	
(b) Describe mitosis process in cell division	
Q.1. B) Answer the following questions (Any two)	
(a) Short note/ Brief note (2x2)	(04)
1. Draw a labeled diagram of cell cycle.	
2. Draw a labeled structure of animal and plant cell	
(b) Write short note on phagocytosis.	(04)
(c) Describe the active transport mechanism for uptake of nutrients the	hrough cell (04)
membrane.	C
Q.2. A) Answer the following questions.	
(a) Write short note on lysosome.	(04)
(b) Give structure, morphology & functions of plasma membrane.	(04)
Q.2. B) Answer the following questions (Any two)	
(a) Write functions of golgi complex.	(03)
(b) Write role of ribosomal protein in translation.	(03)
(c) Write functions of endoplasmic reticulum.	(03)
Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks)	(08)
(a) Write short note on calvin cycle for carbon fixation.	
(b) Write functions of mitochondria.	
Q.3. B) Answer the following questions (Any two)	
(a) Short note/ Brief note (2x2)	(04)
1. What is apoptosis?	
2. Write difference between simple & facilitated diffusion.	
(b) Write short note on photophosphorylation.	(04)
(c) Write short note on group translocation.	(04)
Q.4. A) Answer the following questions.	
(a) What is microevolution? Give types of microevolution.	(04)
(b) Write short note on Darwinism.	(04)
Q.4. B) Answer the following questions (Any two)	
(a) Write short note on theory of abiogenesis (origin of life-spontaneous ger	neration) (03)
(b) Write short note on RNA world.	(03)
(c) Write short note on theory of Biogenesis.	(03)
-	