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SARDAR PATEL UNIVERSITÝ

M. Sc. (I Semester) Examination (NC)

Tuesday, 10th April 2018

Time: 10.00 a.m to 1.00 p.m.

Paper: PS 01CBIC01 (Cell Biology and Genetics)

1	otal	l Marks:	70

			Total Warks. 70
Q1. Give the most c	correct answers for the	following questions:	(08 Marks)
1. What part of the	nembrane protein is w	ithin the membrane itself?	
(a) hydrophilic re (b) hydrophobic	· ·	(c) N-terminal region (d) C-terminal region	
2. During which pha	ase of meiosis synapse.	s between homologous chroi	mosomes, zygonema, begin?
(a) metaphase(b) leptotene		(c) telophase (d) zygotene	
3. Which of the foll (a) p53	owing proteins stops tl (b) CAK	ne mutated cell from dividing (c) cdk (d)	g? Cyclin
4. Which of the foll	owing enzymes are inv	volved in breaking down Cyc	elins
(a) Proteases	(b) Phosphatases	(c) Cyclases (d) Cyclins	s are not degraded
5. Blood group as A	B is a phenomenon of		· · · · · · · · · · · · · · · · · · ·
(a) Co-dominar	nce	(c) Incomplete dominance	e
(b) Complete do	ominance	(d) None of the above	
6. Which of the foll genetics studies? (a) Caenorhabo		sed as a model organism in (c) <i>Drosophila melanoga</i>	
(b) Schizosaccharomyces pombe		(d) all of the above	
(a) Presence of (b) Presence of	the following conditio single break in DNA unphosphorylated, uns active cyclin depender	•	?

8. If a group of normal people produces 318 normal and 104 albino offspring, what could be genotype of parents?

(a) AA x aa

(d) all of the above

(b) Aa x AA (c) aa x aa

(d) Aa x Aa

(P.T. O.)

2. What are the functions of lysosomes in cell? 3. Differentiate between endocytosis and phagocytosis. 4. In which phase of mitosis packaging of DNA into chromosomes occur? Explain the events of this phase. 5. Name all the five phases of prophase I of meiosis in order. 6. In what ways are the cells in G0 and G1 similar? How do they differ? 7. Explain the second law of Mendel. 8. Which cell organelle can store water, sugars, ions and pigments? 9. Which organelle is involved in autophagy? Q.3 (a) Differentiate between plant cells and animal cells. (06) (b) Explain the uniport, symport and antiport mechanisms for transport of substances across the plasma membrane. (06) OR (b) Compare a prokaryotic and eukaryotic cell on the basis of structural, functional and metabolic differences. (06) Q.4 (a) Explain the structure of chloroplast and narrate the sites of light and dark reactions and ATP synthesis. (06) (b) Explain the composition and organization of cytoskeletal elements. (06) OR (b) Explain the processing of proteins from RER to Golgi apparatus. (06) Q.5 (a) Explain the role and importance of cell cycle check points in cell cycle. (06) (b) Differentiate between (06) i) Necrosis and Apoptosis ii) Mitosis and meiosis OR (b) Explain the roles of cyclin, CAK, Wee 1 and Cdc 25 in activation of MPF activity in S. pombe cells. (06) Q.6 (a) Give examples and explain the concept of multiple allelism. (06) (b) Who rediscovered Mendel's laws? Explain the deviations from the Mendel's findings found after rediscovery of Mendel's laws. (06) OR (b) Define/explain the following terms: (06) i) dihybrid ratio ii) isoallele iii) co-dominance		1. Which eukaryotic organelles are believed to have evolved through symbiotic re Explain in brief.	lationships
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Q.2 Answer any seven of the following questions briefly:

(14 marks)