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SEAT No.

No. of Printed Pages: 02

SARDAR PATEL UNIVERSITY S. Y. B. Sc. 4th SEMESTER EXAMINATION Tuesday, 9th APRIL 2019 TIME: 10:00 AM TO 01:00 PM

CONCEPTS OF BIOLOGY (US04CBIO01)

Total Marks-70

Q.1 1.	Multiple Choice Questions (one mark each) Chromosomes are found in organelle			
	(a) Nucleus (b) Mitochondria (c) Golgi body (d) Chloroplast			
2.	Centromere is located in of chromosomes in Metacentric chromosomes. (a) Middle (b) Top (c) Upper half (d) Lower half			
3.	DNA contains sugar. (a) Ribose (b) Deoxy ribose (c) both a & b (d) None of above			
4.	DNA contains number of bases. (a) 3 (b) 4 (c) 2 (d) 5			
5.				
6.	Watson and Crick proposed the model of			
7.				
8.				
9.	RNA is involved in transcription. (a) r RNA (b) t RNA (c) m RNA (d) None of above			
10.	Translation occurs in			
	CP.T.	0)		

Q.2	Answer any ten from the following.	(20)
1	What is a Sub-metacentric chromosome?	
2	What is a Giant chromosome?	
3	Explain the chemical composition of a chromosome.	
3 4	Write about r RNA.	
5	Explain the function of DNA.	
6	Write about the structure of t RNA.	
7	What is Okazaki fragment?	
8	What is the function of DNA Ligase?	
9	What is the role of DNA Polymerase?	
10	What is Transcription?	
11	Explain the term Translation.	
12	Write the function of m RNA.	
		(06)
Q.3	a) Explain in detail the structure of a chromosome?	(04)
•	b) Write about Euchromatin.	(04)
	OR	(06)
Q.3	a) Write short note on Polytene chromosome.	(04)
	b) Write about Heterochromatin.	(0.)
		(10)
Q.4	Explain the Watson and Crick model of DNA.	(10)
	OR	
	a) Write short note on Purines of DNA.	(05)
Q.4	b) Write short note on Pyrimidines of RNA.	(05)
	b) write short note on 1 yrinhamos or 24 4 2	
	C. DATA 's Enhanceton	(05)
Q.5	a) Explain Replication of DNA in Eukaryotes.	(05)
	b) Write about bidirectional DNA replication.	(*-)
	OR	(05)
Q.5	a) Write about Enzymes and Protein used in DNA replication.	(05)
٠	b) Explain Replication of DNA in Prokaryotes.	. (/
0.6	Write the mechanism of Protein synthesis in Eukaryotes.	(10)
Q.6	OR	
	an all all in Duckeryotes	(10)
Q.6	Write the mechanism of Protein synthesis in Prokaryotes.	(**)
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