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No. Of Printed Pages: 2

SARDAR PATEL UNIVERSITY S.Y.B.Sc.4th SEMESTER EXAMINATION

9th April 2016,Saturday 10.30 AM to 1.30 PM Concepts of Biology, US04CBIO 01

Multiple Choice Q DNA is compacted	to form		
(a)chromosome	(b)nucleus	(c) gene	(d) none
is a gia			
(a)Y chromosome (l (d) none	b)X chromosome	c) polytene cl	hromosome
Centromere lies in_ (a)one side (b) o Deoxyribose sugar i	centre (c)ton	(d) bott	om
Deoxyribose sugar is (a)DNA (The four nucleotide DNA.	bases are present	in	proportions in
(a)equal (b) enzyme (a)polymerase (b) jo	unwinds the DNA helicase (c)liga	in replication in the contract of the contract	n
(a)polymerase (b)l	DNA helicase (d	e)ligase (d)topoisomerase
(a)DNA polymerase	(b) helicase (c)ligase (d	Otopoisomerase
trancri a)m RNA (l Translation occurs in	bes the copy of T b)t RNA	NA	
a)nucleus (b)c		ochondria (d)g	golgi body
Answer any ten Vrite a note on acroc Vhat is a giant chrom Vhat are sex chromos	osome.	ne.	
Vrite down four nitro Vhich are the four nit	genous bases pre	sent in DNA.)

6 7 8	What is RNA? Discuss function of polymerase. Write down function of DNA ligase.	
9	Define leading strand.	
10 11	What is role of m RNA in protein synthesis? Explain role of tRNA in protein synthesis.	
12	What is active amino acid?	
Q.3a.	Write about polytene chromosome.	5
b.	Explain structure of chromosome.	5
	OR	
Q.3a.	Explain metacentric and telocentric chromosome.	5
b.	Write about the function of chromosome in detail.	5
Q.4a.	Explain Watson and Cricks model of DNA.	5
b.	Write a note on DNA.	. 5
Q.4a.	OR	
b.	Write a note on ribosomal RNA. Give structural formula of nitrogenous bases in DNA.	5
Q.5a.	Write a note on Observati Servati	
Q. <i>3a</i> . b.	Write a note on Okazaki fragments.	5
	Write about RNA polymerase and primase. OR	5
Q.5a. b.	Give a detail note on lagging strand. Discussrole of DNA polymerase and single stranded binding	5
	proteins.	5
Q.6.	Write about Transcription of Protein synthesis in detail.	10
	OR	
•		
Q.6 .	Explain Translation of protein synthesis in detail.	10