[48]

SARDAR PATEL UNIVERSITY

T.Y.B.sc. V SEMESTER EXAMINATION DECEMBER 2020

BIOCHEMISTRY:USO5CBCH01

TITLE: MOLECULAR BIOLOGY-I	
Date:24/12/2020: Time: 2:00 AM TO 4:00 PM TOTAL MARKS	: 70
Q.1 Select proper option from following MCQ.	[10]
a) circular duplex b) circular ss c) linear ss d) linear ds 2) The word nucleic acid is given by a) Altmen b) Mendel c) Miescher d) Beadle 3) In human cells have almost times as much DNA as Ecoli a) 400 b) 500 c) 600 d) 700 4) 5'-3' Exonulease activity is usually by DNA polymerase	
Q2. Fill in the blanks and true false	[8]
 There arenucleosome associated with minichromosome. also known as DNA gyrase in bacteriya. group of splicing required spliciosome is initiation codon 	

True or false

- 5. Mitochondria also contain DNA.
- 6. There are normally about 300 molecules of DNA ligase present in prok.
- 7. Group I introne is self splicing.
- 8. Traslocation is required in initiation.

Q3. Answer in short. (Any ten)

[20]

- 1. Define genome.
- 2. Give reason: mitochondriya is semi autonomus organelles.
- 3. Define mobile gene.
- 4. Define Replication.
- 5. What is primosome?
- 6. Define replisome.
- 7. Explain :spliciosome.
- 8. What is role of polyadenylate polymerase?
- 9. What is role of kinase?
- 10. Define translation.
- 11. Define genetic code.
- 12. Write use of mRNA in translation.

Q4.: Long answer questions. (any four)(8 marks each)

[32]

- 1. Explain: salient feature of viral genome.
- 2. Short note on: salient feature of euk. Genome.
- 3. Explain: initiation of replication.
- 4. Explain: elongation of replication
- 5. Explain: Termination of transcription
- 6. Write short note on: polyA tail formation
- 7. Explain: initiation of translation.
- 8. Explain: inhibition of protein synthesis.

