Q2. Answer in very short (Any ten)

a) CBPI

[20]

- 1) Give a brief note on Design gene.
- 2) What do you know about mtDNA?
- 3) What is satellite DNA? Write its types?

b) TUS

- 4) Write fundamental reaction for DNA polymerase.
- 5) What do you know about "Rate of replication"?
- 6) Define: Replication and Semi-conservative replication.
- 7) Write difference between Group-I and Group-II intron.
- 8) Explain: Spliceosome.

c) eIFB

d) SRP

 9) Comment: Frequent appearance of new strains of disease causing retroviruses. 10) Comment: mRNA is a template for protein synthesis. 11) Write role of elongation factor of translation. 12)Justify: Ribosomes act as a protein factories. 	
Q3. Explain in detail.	
a) Types and function of Histone protein. b) Chromatin OR	[5] [5]
Q3. Explain in detail.	
a) Salient features of Viral genomeb) Justify the statement: Eukaryotic DNA is much longer than itself.	[5] [5]
Q4. Write short note on:	
a) DNA Replication is semi-conservative.b) Termination of replication.OR	[5] [5]
Q4. Write short note on:	
a) Dna B Protein. b) Topo-isomerase.	[5] [5]
Q5. Explain:	
a) Splicing mechanism of group IV.b) Termination of translation.OR	[5] [5]
Q5. Explain:	٠
a) 5' cap formation.b) Reverse transcriptase.	[5] [5]
Q6. Explain in detail: Properties of genetic code.	[10]
OR	
Q6. Explain in detail: Inhibition of protein synthesis.	[10]
У.	