- (B) Block the formation of Hydrogen bond between bases
- (C) Block the formation of N glycosidic bond between sugar and base
- (D) All of the above

1.j. Which of the following method used for study of DNA protein interaction

- (A) Invitro transcription
- (B) Invitro translation
- (C) DNA foot printing
- (D) DNA fingerprinting



Q.2. Short questions (2 marks each) attempt any ten $[2x10=$)marks]
[1]	Write short notes on buffer used in agarose gel electrophoresis.	
[2]	Enlist the properties of Taq DNA Polymerase.	
[3]	What is site directed mutagenesis?	
[4]	Define autoradiography.	
[5]	What do you mean by FISH?	
[6]	What should be essential property of molecular markers?	
[7]	Write short notes on satellite DNA.	
[8]	Differentiate between genomic and cDNA	
[9]	Write short notes on application of DNA fingerprinting.	
[10]	What are various component of invitro-transcription?	
[11]	What do you mean by footprinting?	
[12]	Write short notes on application of invitro translation	
	Describe the Principle, methodology and factors affecting Polyacrylamide Gel	
Electro	ophoresis.	[7]
Q3.b.	Enlist various component of PCR. OR	[3]
	Describe the Principle, methodology and factors affecting Agarose Gel ophoresis.	[7]
Q.3.b.	Write notes on application of site directed mutagenesis.	[3]
Q.4.a.	Explain Southern blotting in detail with neat diagram	[6]
Q.4.b.	Write short notes on differential screening. OR	[4]
Q.4.a	Explain Western blotting in detail with neat diagram	[6]
Q.4.b.	Write notes on non radioactive detection of hybridization.	[4]
Q.5.a .	What RFLP stand for ? How RFLPs technique can used in mapping of genome.	[7]
Q.5.b	Write a notes on application of genomic DNA library.	[3]
		РТО

OR

Q.5.a. What AFLP stand for ? How AFLPs technique are used in mapping of genome. Q.5.b. Write a note on application of cDNA library	[6] [4]
Q.6. a Explain the mechanism of chain termination method of sequencing in detail.	[6]
Q.6.b. Briefly explain the method of invitro transcription.	[4]
OR	
Q.6.a Explain the mechanism of chemical cleavage method of sequencing in detail.	[6]
Q.6.b. Write short notes on the various system of invitro translation.	[4]
V	

