B. gfp

A. Amphetamine B. Opium

C. luc

x. Name the drug which is used to isolate hybridoma cells from the media?

D. all of them

D. Cocaine

C. Aminopterin

A. gus

2.			
	Q2.	Short questions. Attempt any TEN questions. a. Enlist various methods of gene transfer in plants. b. Explain about the gene required to make Bt cotton. c. Enlist scorable markers and selectable markers. d. How liposome is used for gene transfer e. How glufosinate can kill plant? f. Give the full form of CAT & GUS with their uses? g. Define microsatellite and minisatellite. h. What is the role of DMSO in cryopreservation. i. Define knockout mice. j. Define edible vaccine and enlist its benefits. k. What do you mean by dolly sheep? l. Define functional genomics.	[20]
	Q3.	 Fill in the blanks. True/false. a. Bar gene product can inhibit the enzyme b. Intact plant cell can be used to transfer gene via electroporation. (True/false). c. GUS is a selectable marker (True/false). d. FlavrSavr tomato was made by using antisense mRNA ofAntibodies produced by transgenic plant is called	[08]
	Q4.	Long questions of 8 marks each. Attempt any FOUR questions.	[32]
·	L	Discuss electroporation and microinjection methods of gene transfer.	[08]
	n.	Describe the structure of Ti plasmid with enlisting all of its genes and their role.	[08]
	IIIa. IIIb.	A linear DNA is cut by two enzymes separately and combined Hind -III2.8kb 1.2kb Bam H11.8kb 1.3kb 0.9kb Bam H1 +Hind III0.3kb 0.9kb 1.0kb 1.8kb Draw a restriction map with pattern on gel for this.[4] Write a short note on ESTs.[4]	[08]
	IV	Define molecular markers. Explain AFLP in detail.	[08]
	V.	How would you prepare a transgenic tomato with long shelf life?	[08]
	VI.	Describe the steps involved in cryopreservation.	[08]
	VII.	How monoclonal antibodies are produced?	[08]
	VIII.	What is hybridoma cell lines, how they are prepared?	[08]