T81)

Sardar Patel University

Semester-III

Saturday, 02 Tanuary 2021

US03CBIT-02

(Application of Biotechnology-I)

Time:	0 2: 0	0 P.M to 04 :00 P.M	Marks	: 70	
Q-1		Multiple Choice Question (Attem	ot all)	۲ 10	
< *	1.	Disaggregation of epithelium tissue requires?			
		a) EtBr	c) EDTA		
		b) SDS	d) BSA		
	2.	Most normal untransformed cells su	rvive and proliferate to produce		
		a) Primary culture	c) Continuous cell lines		
		b) Secondary culture	d) None of the above		
	3.	Surface available for attachment of	culture is called as?		
		a) Stage	c) Substrate		
		b) Media	d) None of the above		
	4.	Which vitamin is not seen in MS medium?			
		a) Niacin	c) Thiamine	,	
		b) Riboflavin	d) None		
	5.	Which of the following cell is said	to be totipotent?		
		a) Parenchyma	c) Sieve Cells		
		b) Scherenchyma	d) Cork cells		
	6.	Which of the following is artificial	medium?		
		a) Coconut milk	c) LS medium		
		b) Fruit Juice	 d) All of the above 		
	7.	In the process of electroporation the current used is			
		a) One Discharge	c) Continuously		
		b) Pulse	d) All of the abvoe		
	8.	Which among the following is first clone sheep?			
		a) Dolly	c) Polly		
		b) Rolly	d) Molly		
	9.	Also known as fungal foot.			
		a) Lichens	c) Frankia		
		b) Mycorhizza	d) Rhizobium	,	
	10.				
		a) Rhizobium	c) Azotobacter		
	•	b) <i>Spiruilium</i>	d) All of the above		
Q-2		Answer the following (Attempt All)			
_	1.	is used as surface sterilization		 	

	2.	Agaricus bisporus is an edible mushroom. State True or False.	
	3. Liposome fusion takes place in ions.		
	4. A chimera is an individual which has in its body cell of two or more genotype.		
		State true or false.	
	5.	Continuous culture is also know as closed system,. State true or false.	,
	6.	is obtained from Marine red algae.	
	7.	Defined media are usually supplemented with 5-20% of serum. State true or	
		false.	
	8.	Mycoplasma contamination can be detected by	
Q-3		Short Question (Attempt any ten)	[20]
Q-3	1.	What are defined media?	· /
	2.	Give advantages of serum free medium.	
	3.	What are stem cells? Enlist types of stem cells.	
	3. 4.	Define somatic organogenesis.	
	5.	On what principle does autoclave works.	
	6.	Give use of giberallic acid in PTC	
	7.	Define liposome and virosome	
	8.	Give account on DEAE-dextan mediated transfect ion	
	9.	Why mouse is preferred animal for gene transfer?	
	10.	What is spawn?	,
	11.	Give advantage of SCP	
	12.	Define: Biofertilizer and Biopesticide	
			1327
Q-4		Long Question (Attempt any four)	U320
	1.	Discuss in detail Mushroom Cultivation.	
	2.	Explain Mycorrhizal fungi as Biofertilizer. Describe the embryonic stem cell transfer technology for mice and discus its	
	3.	Describe the empryonic stem cent transfer technology for finee and another transfer technology for fine and another transfer	
	4	various application and limitation. Discuss the application of transgenic fish and their production.	
	4.	Give detail composition of MS medium.	
	5.	Olve detail composition of wis median.	
	6.	Discuss various sterilization process in PTC. Explain natural media in detail.	
	7.	Explain Mechanical and Enzyme Disaggregation.	
	.8.	Explain Mechanical and Elizythe Disaggregation.	
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