

Class : XIIth
Date :
Subject : BIOLOGY
DPP No. : 9

	Topic :- B	Biotechnology	& It's Application	ıs		
1.	Consider the following statements I. Bt toxin gene has been cloned from the bacteria II. Genetic engineering works only on animals and has not yet been successfully used on plants III. Strains of Bacillus thuringiensis are used in producing bioinsecticidal plants Which of the statements given above are correct? a) I and II b) I and III c) II and III d) I, II and III					
2.	There is a restriction endo	onuclease called Eco Ri b) Coenzyme	I. What does ' <i>co</i> ' part in it star c) <i>Coli</i>	nd for? d) Colon		
3.	•		and express an extra (foreign) c) Transversion animal	gene are known as		
4.	Which of the following ter in the specific medium? a) Callus	ms is used to describe b) Embryoid	the component isolated from c) Synthetic seeds	a plant, for in vitro culturing d) Explant		
5.	Which of the following is a a) Hirudin	transgenic plant? b) <i>Flavr savr</i>	c) <i>Triticale</i>	d) All of these		
6.	Bt cotton is resistant to a) Herbicides	b) Drought	c) Cold	d) Insects		
7.	A doctor, while operating on an HIV ⁺ patient accidently cut himself with a scalpel. He comes to you, suspecting himself to have contacted the virus. Which test will you advise him to rule out/confirm his suspicion? a) PCR b) Routine urine examination c) TLC d) DLC					
8.	Golden rice is a promising a) Producing a petrol like c) Pest resistance	= =	n released for cultivation, it w b) Alleviation of vitamin d) Herbicide tolerance	-		

9.	Natural genetic engineer is						
	a) <i>Bacillus subtilis</i>		b) <i>Pseudomonas sp</i>				
	c) <i>Escherichia coli</i>		d) Agrobacterium tumefaciens				
10.	Consider the following statements about 'Rosie' I. Rosie is a first transgenic cow II. Rosie produced human protein enriched milk III. The milk contained the human α -lactalbumin and scientist behind the research believes that the milk from the cow could provide an alternative to human breast milk Which of the statements given above are correct?						
	a) I and II	b) I and III	c) II and III	d) I, II and III			
11.	An example of gene therapa) Production of injectiblec) Production of test-tube insemination	hepatitis-A vaccine		action of the genes for adenosine ase in a person suffering from SCID ae above			
12.	The process, in which mat a) De-differentiation	ure differentiated cells reb) Differentiation	everse to meristematic activ c) Cyto-differentiation	vity to form callus is called d) Re-differentiation			
13.	The first human drug mad a) Insulin	e by using genetic engine b) Paracetamol	eering technique was c) Streptomycin	d) None of these			
14.	In tissue culture, roots can be induced by a) Lower concentration of cytokinin and higher concentration of auxins b) Only cytokinin and no auxins c) No cytokinin and only auxins d) Higher concentration of cytokinin and lower concentration of auxins						
15.	Consider the following statements about insulin I. Human insulin is made-up of 51 amino acids arranged in two polypeptide chains II. The two polypeptide chains are interconnected by two disulphide bridges III. In mammals including humans, insulin is synthesized as a pro-hormone, which contains an extra stretch called the C-peptide IV. C-peptide is not present in the mature insulin Which of the statements given above are correct? a) I, II and III b) I, III and IV c) II, III and IV d) I, II, III and IV						
16.	The basis of DNA fingerpria) The double helix c) Polymorphism in seque	_	b) Errors in base sequen d) DNA replication	ce			

17.	Which of the following enzymes are used to join bits of DNA?					
	a) Ligase	b) Primase	c) DNA polymerase	d) Endonuclease		
18.	Consider the following statements I. Transgenic animals are more sensitive to the toxic substance than non-transgenic animals II. Useful biological products can be produced by introducing into transgenic animals the portion of DNA which codes for a particular product III. Brazzein is a protein produced by a west African plant, <i>Pentadiplandra brazzeana</i> which is approximately 2000 time as sweet as sugar Which of the statements are given above are correct?					
	a) I, II and III	b) I and II	c) I and III	d) None of these		
19.	The construction of the first recombinant DNA was done by using the native plasmid of a) <i>E. coli</i> b) <i>Salmonella typhirmurium</i> c) <i>Bacillus thuringiensis</i> d) Yeast					
20.		in				
	a) Organ transplantationc) Forensic science		b) Sex determination d) Genetic engineering			