

Class : XIIth Subject : BIOLOGY Date : DPP No. : 5

	Topic :- Biotechnology & It	's Applications		
1.	 PCR is used to a) Detect HIV in suspended AIDS patients b) Detect mutations in the genes in suspended cancer pace c) Diagnose many genetic disorders d) All of the above 	atients		
2.		of <i>Datura</i> was Embryo culture d) Protoplast culture		
3.	Find out the wrong statement. a) Mobile genetic elements, transposons were visualized by Barbara McClintock b) Udder cell, a somatic cell is used to produce the cloned sheep by nuclear transplantation method c) In pedigree analysis, a person immediately affected by an action is called propositus d) DNA ligases are used to cleave a DNA molecule			
4.	 4. Phytotron is a) A controlled condition chamber for tissue culture b) Leaf culture process c) Special culture of plants d) Root culture process 			
5.	a) <i>Escherichia coli</i> b)	atilized for cleaning of marine oil slicks? b) <i>Pseudomonas syringae</i> d) <i>Rhizoctonia solani</i>		
6.		RNA inactivation d) RNA initiation		
7.	Which of the following peptide chain is removed during the maturation of proinsulin into insular (21 amino acid) b) B-chain (30 amino acid) c) C-chain (33 amino acid) d) A and B chain			
8.	0 0	ring? Golden rice d) None of these		

9.	The enzyme employed for amplification of DNA duri a) <i>Streptococcus pyogenes</i> c) <i>Trichoderma reesi</i>		ng PCR is commercially obtained from b) <i>Bacillus licheniformis</i> d) <i>Thermos aquaticus</i>		
10.	A genetically engineered microorganism used successfully in bioremediation of oil spills, is a species of a) <i>Pseudomonas</i> b) <i>Trichoderma</i> c) <i>Xanthomonas</i> d) <i>Bacillus</i>				
11.	The vector for T-DNA isa) <i>Thermos aquaticus</i>c) <i>Agrobacterium tumefaciens</i>		b) <i>Salmonella typhimurium</i> d) <i>Escherichia coli</i>		
12.	What is true for plasmid? a) Found in viruses c) Part of nuclear chromosome		b) Contains genes for vital activitiesd) Widely used in gene transfer		
13.	β-carotene is a principal a) Vitamin-A	source of b) Vitamin-B	c) Vitamin-C	d) Vitamin-D	
14.	14. Consider the following statements I. Earlier, insulin was extracted from pancreas of slaughtered cattle and pigs which was more efficient than the genetically engineered insulin II. PCR technique is being used for the detection of HIV in suspected AIDS patients and genetic mutations in suspected cancer patients III. Cystic fibrosis, haemophilia, cancer, Parkinon's etc., are treated by gene therapy 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				
15.	A single strand of nucleic a) Plasmid	acid tagged with a radioac	tive molecule is called c) Probe	d) Selectable marker	
16.	b. Product of biotechnology isa) Transgenic crops (GM crops)c) Biofertilizer		b) Humulin d) All of the above		
17.	Cultivation of <i>Bt</i> cotton has been much in the news. The prefix <i>Bt</i> means a) Barium-treated cotton seeds b) Bigger thread variety of cotton with better tensile strength c) Produced by biotechnology using restriction enzymes and ligases d) Carrying an endotoxin gene from <i>Bacillus thuringiensis</i> 				
18.	Enzyme that is used in PO a) <i>Taq polymerase</i>	CR technology is b) Polymerase	c) Helicase	d) Reverse transcriptase	

- 19. Transgenic animals are those which have foreign
 - a) DNA in some of its cells
 - c) RNA in all of its cells

- b) DNA in all its cells
- d) RNA in some of its cells
- 20. The application of biotechnology includes all except
 - a) Waste treatment
 - b) Energy production
 - c) Genetically modified crops
 - d) Conventional hybridization

