

Class : XIIth
Date :
Subject : BIOLOGY
DPP No. : 8

Topic :- Biotechnology & It's Applications

	_		x 1t s Application			
1.	Which one of the following molecular diagnostic technique is used to detect the presence of a pathogen its early stage of infection?					
	a) Angiographyc) Enzyme replacement technique		b) Radiographyd) Polymerase Chain Reaction (PCR)			
2.	First hormone prepared by genetic engineering is		3			
	a) Oxytocin	b) Somatotropin	c) Adrenaline	d) Insulin		
3.	First hormone produced artificially by culture bacteria, is					
	a) Insulin	b) Thyroxine	c) Testosterone	d) Adrenaline		
4.	In transgenics, expression of transgene in target tissue is determined by					
	a) Enhancer	b) Transgene	c) Promoter	d) Reporter		
5.	Genomic DNA library means a) A collection of literature about DNA c) Packing of donor DNA in a collection of vectors b) A collection of organisms for extracting DNA d) A collection of gene vectors					
6.	The characteristics of a molecular probe are I. Very long molecule II. Double-stranded III. DNA or RNA IV. Complementary to a part of desired gene The correct pair is					
	a) I and II	b) II and III	c) III and IV	d) IV and I		
7.	A monopoly granted to a person who has either invented a new and useful article, made improvement in an existing article or invented a new process of making an article is called					
	a) Bioethicsc) Biopiracy		b) Patentd) Genetic recombination	b) Patent d) Genetic recombination		
8.	Choose the correct option about agrochemicals a) These are expensive for farmers in developing countries b) Also have harmful effects on environment					

	d) All of the above	ops are less expensive	uian agrochenneas			
9.	Some organisations and multinational companies patent biological resources of other nations without proper authorization from the countries concerned, this is called					
	a) Bioweapon	b) Biopiracy	c) Bioethics	d) Bio patient		
10.	Which one of the following a) <i>Triticale</i>	g is a 'man made cereal b) Hybrid maize	' not found in nature? c) Dwarf wheat	d) Soyabean		
11.	What is the demerit of using bovine insulin (from cow) and porcine insulin (from pig) in diabetic patients? a) It leads to hypercalcemia b) It is expensive c) It may cause allergic reactions d) It may lead to mutations in human genome					
12.	plasmids called					
	a) R _i — plasmid	b) Lambda phage	c) pBR 322	d) T _i — plasmid		
13.	Choose the correct options about Basmati rice I. In 1997, an American company got patent rights for Basmati rice through the US Patent and Trademark office and was allowed to sell a 'new variety' in US and abroad II. This new variety of Basmati was derived from Chinese farmer's varieties III. Indian Basmati was crossed with semidwarf varieties and claimed as an invention or a novelty Which of the above statements are correct? a) I and II b) I and III c) II and III d) I, II and III					
14.	Genetically engineered hu a) 5 th July 1998	man insulin, humulin v b) 5 th July 1993	vas launched by American c) 5 th July 1973	drug company on d) 5 th July 1983		
15	Which of the following is not a restriction endonuclease?					
10.	a) <i>Eco</i> RI	b) <i>Hind</i> III	c) <i>Pst</i> I	d) DNAse I		
16.	The totipotency of a cell refers to the a) Flowering in a culture medium b) Development of fruit from a flower in a culture medium c) Development of an organ from a cell in culture medium d) Development of all tissues of all kinds from a cell in a culture medium					
17.	The anticoagulant hirudin a) Ti plasmid of <i>Agrobacte</i> c) Seeds of <i>Brassica napus</i>	erium	b) Bt toxin produced d) None of the above	b) Bt toxin produced by cry gene d) None of the above		

- 18. Restriction enzymes are used to cut
 - a) Single stranded RNA
 - c) Single stranded DNA

- b) Double stranded DNA
- d) Double stranded RNA
- 19. When a person with defective Adenosine Deaminase (ADA) was treated, which of the following steps were performing for gene therapy?
 - I. Lymphocytes were extracted from the bone marrow of the patient
 - II. Lymphocytes were grown in a culture out side the body
 - III. Lymphocytes were transfected with the normal ADA genes
 - IV. The transfected cells were returned to the patients
 - a) I, II and III
- b) I, III and IV
- c) II, III and IV
- d) I, II, III and IV
- 20. DNA or RNA segment tagged with a radioactive molecule is called
 - a) Vector
- b) Probe

c) Clone

d) Plasmid

