

a) Formation of phosphodiester bond between two DNA fragments

	b) Formation of hydrogen bonds between sticky ends of DNA fragmentsc) Ligation of all purine and pyrimidine basesd) None of the above						
9.	Transgenic animals are pr a) Egg c) Nucleus of fertilized eg		n gene into the: b) Nucleus of unfertilized egg d) Nucleus of sperm				
10.	Clonal cell lines can be obt a) Autoradiography	tained by: b) Tissue culture	c) Centrifugation	d) Cell fractionation			
11.	 Electroporation procedure involves: a) Fast passage of food through sieve pores in phloem elements with the help of electric stimulation b) Opening of stomatal pores during night by artificial light c) Making transient pores in the cell membrane to introduce gene constructs d) Purification of saline water with the help of a membrane system 						
12.	Which of the following is a a) Plastids	associated with genetic en b) Plasmids	gineering? c) Mutations	d) Hybrid vigour			
13.	Biolistics (gene gun) is suitaa) Disarming pathogen vec) Construction recombin vectors	ctors 💦 👘	b) Transformation of plants cells d) DNA fingerprinting				
14.	Which of the following statements are correct for the enzyme taq polymerases?I. Taq polymerase is thermally unstableII. It requires primers for carrying out the process of polymerizationIII. Taq polymerase is isolated from thermophilic bacterium, Thermus aquaticusChoose the correct optiona) I and IIb) I and IIIc) II and IIId) I, II and III						
15.	EFB stands for a) European Federation o c) East Asia Federation of		b) Eurasian Federation of Biotechnology d) Ethiopian Federation of Biotechnology				
16.	The commonly used DNA a) Southern blotting	fingerprinting technique i b) Northern blotting	n forensic studies is simply c) Eastern blotting	a method involving d) Western blotting			
17.	<i>Cry</i> I endotoxins obtained a) Nematodes	l from <i>Bacillus thruigien</i> b) Bollworms	<i>sis</i> are effective against c) Mosquitoes	d) Flies			
18.	In the naming of restriction enzymes the first letter is derived fromA name and next two letters from						

	theB and fourth letter fromC ofD where the enzymes are extracted A to D in the statement can be						
	A B C I)					
	a) Genus species strain	bacteria	b) Species genus	strain	bacteria		
	c) Genus species variety	v eukaryote	d) Species genus	variety	eukaryote		
19.	Which of the following tea a) Chromatography	chniques is most commonly b) PCR	v used to separate E c) RFLP)NA mol	ecules by size? d) Gel electrophoresis		

20. Which one of the following scientists got the Nobel Prize for his invention polymerase chain reaction (PCR)?

a) F. Sanger b) Paul Berg c) Alec Jeffreys d) Kary B. Mullis

