DPP DAILY PRACTICE PROBLEMS							
Class : XIIthSubject : BIOLOGYDate :DPP No. : 3							
	Торіс :- Е		z It's Application	ns			
1.	<ul> <li><i>Cry</i> II <i>Ab</i> and <i>cry</i> I <i>Ab</i> produce toxins that control</li> <li>a) Cotton bollworms and corn borer respectively</li> <li>b) Corn borer and cotton bollworms respectively</li> <li>c) Tobacco budworms and nematodes respectively</li> <li>d) Nematodes and tobacco budworms respectively</li> </ul>						
2.	Genetically engineered ba a) Thyroxine	icteria are being employe b) Human insulin	d for production of c) Cortisol	d) Epinephrine			
3.	Micropropagation is a tec a) True type plants	h <mark>nique for production of b) Haploid plants</mark>	c) Somatic hybrids	d) Somaclonal plants			
4.	Which of the following rad a) H <sup>3</sup>	d <mark>ioisot</mark> ope is not suitable b) P <sup>32</sup>	for DNA labeling based stu c) N <sup>15</sup>	udies? d) S <sup>35</sup>			
5.	Gene therapy in humans was first practiced by Blease and Andresco to cure a) Cystic fibrosis b) Haemophilia c) Thalassaemia d) Severe Combined Immuno Deficiency Disease						
6.	For production of haploid a) Shoot tip	s, we culture b) Anther	c) Root tip	d) None of these			
7.	Differentiation of organs and tissues in a developing a) Developmental mutations c) Lethal mutations		g organism, is associated with b) Differential expression of genes d) Deletion of genes				
8.	How many varieties of ric a) 2200	e has been estimated to l b) 20000	pe present in India? c) 200000	d) 2000000			
9.	Who discovered that rest fashion, which left what h a) Ramdeo Mishra		capability of cutting DNA s ky ends' on the strads? c) Herbert Boyer	strands in a particular d) James D Watson			

10. A	l cybrid	is	hybrid	carrying
-------	----------	----	--------	----------

- a) Genomes and cytoplasms of two different plants
- b) Cytoplasms of two different plants
- c) Cytoplasms of two different plants but genome of one plant
- d) Genomes of two different plants
- 11. Which of the following is correctly matched? a) Agrobacterium tumefaciens - Tumour b) Thermos aquaticus - Bt-gene c) pBR322 - Molecular scissors – Enzyme d) Ligase
- 12. Which of the following shows correct chronological order of the events occurring during callus culture?
  - a) Callus  $\rightarrow$  Cell division  $\rightarrow$  Explant  $\rightarrow$  Addition of cytokinin  $\rightarrow$  Cells acquire merstematic property
  - b) Explant  $\rightarrow$  Callus  $\rightarrow$  Cell division  $\rightarrow$  Addition of cytokinin  $\rightarrow$  Cells acquire meristematic property
  - c) Explants  $\rightarrow$  Cell division  $\rightarrow$  Callus  $\rightarrow$  Addition of cytokinin  $\rightarrow$  Cells acquire meristematic property Callus  $\rightarrow$  Explant  $\rightarrow$  Cell division  $\rightarrow$  Addition of cytokinin  $\rightarrow$  Cells acquire meristematic property
- 13. *Bt* toxin is

a) Intracellular crystalline protein	b) Extracellular crystalline protein	
c) Intracellular monosacch <mark>aride</mark>	d) Extracellular polysaccharide	
14. A major use of embryo cult <mark>ure i</mark> s in		
a) Production of alkaloids	b) Clonal propagation	
c) Induction of somaclonal variations	d) Overcoming hybridization barriers	

- 15. Which one of the following hydrolyses internal phosphodiester bonds in a polynucleotide chain? a) Lipase b) Exonuclease c) Endonuclease d) Protease
- 16. White revolution is related to the increase in production a) Egg b) Milk c) Meat d) Wool

## 17. What is true about *Bt* toxin?

- a) The inactive protoxin gets converted into active form in the insect gut
- b) Bt protein exists as active toxin in the Bacillus
- c) The activated toxin enters the ovaries of the pest to sterilize it and thus, prevent its multiplication
- d) The concerned Bacillus has antitoxins
- 18. In recombinant DNA technique, the term vector refers to
  - a) Donor DNA, is identified and picked up through electrophoresis
  - b) Plasmid, transfers DNA into living cell
  - c) Collection of entire genome in form of plasmid
  - d) Enzyme, cuts the DNA at specific sites
- 19. A plant species which has been exploited for the production of hirudin is

a) *Brassica napus* b) 2

b) *Zea mays* 

c) *Solanun nigrum* 

d) Oryza sativa

20. The aims and objectives of Genetic Engineering Approval Committee are

To permit the use of genetically modified organisms and their product for commercial applications
II. To adopt the procedures for restriction, production and application of GM organisms
III. approval to conduct large scale field trails and release of transgenic crops in the environment
Which of the statements are given above are correct?
a) I and II
b) I and III
c) II and III
d) I, II and III

