Vivekananda Vidhyashram Matric Hr. Sec School

Tirunelveli

Class: 12 STD Pre-Half Yearly Test -2024

	ВОТА	NY	Total marks 100	
A. Choose the best answer from following Questions:			$20 \times 1 = 20$	
1. First cell of male gametoph	yte in angiosperm	is		
(a) Microspore	(b) Megaspore	(c) Nucleus	(d) Primary Endosperm Nucl	
2. Arrange the layers of anthe	r wall from locus to	periphery		
(a) Epidermis,middle l	ayers, tapetum, end	lothecium		
(b) Tapetum, middle la	ayers, epidermis, er	ndothecium		
(c) Endothecium, epid	ermis, middle layer	rs, tapetum		
(d) Tapetum, middle la	ayers endothecium	epidermis	N.O.	
3. Pick out the mismatched pa	ir:			
(a) Entamophily – Inse	ects (b) Malaco	phily – Mammals		
(c) Cheiropterophily –	Bats (d) Omitho	phily – Birds		
4. The type of endosperm noti	iced in Hydrilla see	d		
(a) Ruminate endosper	rm (b) Nuclear	(b) Nuclear endosperm		
(c) Cellular endosperm	n (d) Helobia	l endosperm		
5. Changing the codon AGC t	o AGA represents			
(a) mis-sense mutation	(b) non-sen	(b) non-sense mutation		
(c) frameshift mutation	n (d) deletion	(d) deletion mutation		
6. How many map units separ	ate two alleles A ar	nd B, if the recom	abination frequency is 0.09?	
(a) 900 cM (b) 90 c	cM (c) 9 cM	(d) 0.9 cM		
7. Number of chromosomes (2	2n) in Ophioglossu	m is		
(a) 1226 (b) 162	2 (c) 1262	(d) 2126		
8. During cross over, chiasma	occurs between			
(a) Sister chromatids of non-h	omologous chromo	osomes		
(b) Non-sister chromatids of r	non- homologous cl	nromosomes		
(c) Non-sister chromatids of h	omologous chromo	osomes		

(c) Cajanus cajan

(d) Sorghum vulgare

(d) India alone

(b) Vigna mungo

(c) South America, Greece

19. Pigeon pea is the common name for.

(a) Vigna radiate

40. Give an account on colchicine.

41. What are secondary metabolites? Give two examples.

- 42. Classify restriction enzymes based on their mode of action.
- 43. Mention any three sources of carbon dioxide emission.
- 44. What are the major activities carried out by forestry extension centres?
- 45. Which is called the "King of Bitters"? Mention their medicinal importance.
- 46. Enumerate the uses of turmeric.

D. Answer the following questions:

 $6 \times 5 = 30$

- 47. Enumerate the characters of anemophilous flowers (or)

 Explain any five types of angiospermic ovules
- 48. Describe the structure of a dicot seed. (or)

 Draw a flow chart depicting the various types of ploidy.
- 49. List out the significance of ploidy. (or)Describe the steps involved in recombinant DNA technology.
- 50. Explain in detail about various types of direct gene transfer method (or)

 Explain the stepwise preparation of Bio-pest repellent from the leaves of *Azadirachta indica*
- 51. List out the major effects of Ozone depletion. (or)Write a comparative note on Carbon Foot Print (CFP).
- 52. What are millets? What are its types? Give example for each type. (or)
 What are psychoactive drugs? Add a note of Marijuana and Opium