## **Model Question Paper**

## **Subject-Biology**

## Class-XII

## SECOND TERMINAL EXAMINATION, 2022

Time: 3 Hrs.			MI.MI-50
1.	Virus infected cells secrete proteins called		$(1 \times 1 = 20)$
	(a) Serotonian	(b) Histamine	
	(c) Interferons	(d) None of these	
2.	The antibodies produced in response to allergens are		
	(a) IgA	(b) IgD	
	(c) IgE	(d) IgM	
3.	Diacetylmorphine is a/an		
	(a) opoid	(b) Cannabinoid	
	(c) Coca alkaloid	(d) None of the above.	
4.	Nicotine stimulates		
	(a) Pancreas	(b) Thymus	
	(c) Thyroid	(d) Adrenal gland	
5.	Swiss cheese is produced due to the activity of		
	(a) Virus	(b) Bacteria	
	(c) Fungi	(d) Protozoa	

	(c) Penicillium notatum	(d) Aspergillus niger.	
7.	Secondary sewage treatment is mainly		
	(a) Physical treatment (b) Chemical treatment		
	(c) Mechanical treatment	(d) Biological treatmer	nt
8.	Which of the following is a free living nitrogen fixing bacteria		
	<ul><li>(a) Rhizobium</li><li>(d) None of above</li></ul>	(b) Azotobacter	(c) Lichens
9.	An enzyme which catalyse of DNA is	the removal of nucleotic	des from the end
	<ul><li>(a) Exo-nuclease</li><li>(d) Polymerase.</li></ul>	(b) End-nuclease	(c) Ligase
10.	While isolating DNA from bacteria which enzyme is not used		
	(a) Lysozyme	(b) Ribonuclease	
	(c) Deoxyribonuclease	(d) Protease	
11.	Crystals of Bt-toxin produced by some bacteria donot kill the bacteria themselves because		
	(a) bacterias are resistant to the toxin		
	(b) Toxin is immature		
	(c) Toxin is inactive		
	(d) Bacteria encloses toxin	n in special sac.	

(c) Lactobacillus

6. Citric acid is produced by activity of

(a) Acetobacter aceti

	(a) Genetic engineering Action committee		
	(b) Genetic Engineering Approval committee		
	(c) Global Environment Action Committee		
	(d) None of the above		
13.	13. In commencialism, out of two interacting organisms		
	(a) Both are benefitted	(b) Both are harmed	
	(c) One is benefitted and o	ther is uneffected	
	(d) One is harmed other is benefitted.		
14.	4. Mycorrihza is a symbiotic association between roots of higher plants and		
	(a) Algae	(b) Fungi	
	(c) Lichens	(d) Protozoa	
15.	5. Mammals from colder areas have shorter ears and limbs. This is called		
	(a) Mendel's rule	(b) Allen's rule	
	(c) None of these		
16.	16. Which forest is known as the lung's of the planet?		
	(a) Siberian forest	(b) Amazon rainforest	
	(c) Deciduous forest	(d) None of the above.	

12. GEAC stands for

17.	The active chemical drug reserpine is obtained from		
	(a) Datura	(b) Atropa	
	(c) Papaver	(d) Rauwolfia	
18.	Rivet popper hypothesis was given by		
	(a) Stanely	(b) Tansley	
	(c) Paul Ehrlich	(d) Jim Corbett	
19.	Cryperservation is preservation of living tissue		
	(a) At a very high temperature		
	(b) Preservation by dehydrating		
	(c) Preservation at very low temperature in liquid nitrogen		
	(d) None of the above.		
20.	Which is not a hot spot of bio diversity?		
	(a) Western ghats and Shri Lanka		
	(b) Indo Burma		
	(c) Himalaya's		
	(d) None of the above		
21.	Draw a well labelled diagra	am of Antibody molecule.	(2)
22.	Explain a microbial biopes	ticide.	(2)
23.	Write the composition of bio-gas and the common bacteria which		hich
	produces it		(2)
24.	How can we separate DNA fragments after cutting of DNA, ex-		
	plain in detail.		(2)

25.	Write four advantages of general	tically modified plants.	(2)
	(	)r	
	What is ADA deficiency? Ho	w can it be corrected?	
26.	Why are mammals considered	as regulators?	(2)
27.	. Give two reasons for greater biodiversity in tropical regions.		
	(	)r	
	Write the causitive agents of following diseases (2)		
	(a) Typhoid (b)	Ascariasis	
	(c) Malaria (d)	Pneumonia	
28.	Where do we use bio-reactors? Explain down streaming process.		ess.
29.	(a) Write four causes of loss o	f biodiversity?	(3)
	(b) Write its effects on eco-sys	stem	
	(	)r	
	(a) What is the importance of	biopatent?	
	(b) Where do we use Taq poly	merase enzyme?	
30.	0. (a) Differentiate between Primary and Secondary lymphoid organs. (5)		(5)
	(b) The number of helper T-lymphocytes has decreased in the body of an infected person. He is suggested to take anti Retroviral drugs		-
	1. Name the disease he is suffe	ering from	
	2. Write its causative agent		
	3. Name the diagnosist test for	r this disease.	
	(	)r	
		0	

- (a) Expand the following
- (a) MALT

(b) CMI

(c) NACO

(d) LAB

- (b) Cirrohsis is the damage of ...... cells
- (c) What is the causative agent of filiarisis, its symptoms and its transmission.
- 31. (a) Write Verhulst pearl Logistic growth equation.
  - (b) An orchid plant is growing on the branch of a mango tree, what type of interaction is this?
  - (c) Write two methods by which plants protect themselves against herbivory?