HSC 12th Standard

Model Question Paper – 2

Zoology

Section- I

Marks: 70

15X 1 = 15

Time: 2.30 hours

I) Answer all the questions

	Choose the most suitable answer from the given four alternatives and write the option code and the Corresponding answer
1	Select the number of auto immune diseases from the following
	 i) Rheumatoid arthiritis ii) Myasthenia gravis iii) SCID iv) Multiple Sclerosis v) Gout vi) Rheumatic heart disease a) 5 b) 4 c) 3 d) 2
2	Find the incorrect pair
	a) Myxoedema
	b) Tetany - Hyperparathyroidism
	c) Grave's disease - Hyper thyroidism
	d) Diabetes insipidus - poly urea
	l) a ii) b iii) c iv) d
3	Germ theory of disease was given by
	a) Louis Pasteur b) Joseph Lister
	c) Robert Koch d) Alexander Flemming
4	Series of vegetative cells of bacteria surrounded by a slimy sheath is called
	a) Trichome b) Cluster c) Chains d) Filaments
5	Vaccines that are used to elicit immunity are prepared from strains
	a) Virulent b) attenuated
	c) Mixed d) viral
6	Find the number of correct statements
	1. Monocytes get converted into macrophages during infection
	2. They act as anti-oxidant
	a) 1 b) 2 c) both d) None
7	'DOPA' is associated with which of the following genetic disease?

	a) Agammaglobulinemia	b) Albinism
	c) SCID	d) Gout
8	The process by which DNA gets	transformed into mRNA is called
	a) Transcription	b) Translation
	c) Transition	d) Transformation
9	Select the incorrect pair	
	a) Seaweed - Gracila	aria
	b) Oyster - Palinu	rus
	c) Crab - Scylla	
	d) mussel - Perna	
	l) a ii) b iii) c	iv) d
10	Artemia salina belongs to the ph	ylum
	a) Arthropoda	b) Mollusca
	c) Annelida	d) Echinodermata
12	The habitat experiencing unusual	rapid rate of habit modification loss, which are rich in
	endemic species is called as	•
	a) Biosphere reserve	b) Hotspot
	c) zoological park	d) Endangered Zone
13	The type of fowl breed noted for	,
10	a) Aseel b) Bu	
	,	ittagong
14	•	can fowl breed among the following
17		
		iii) Ancone iv) Wyandotte vi) Minorca
	a) 4 b) 3 C) 2 d) 1	
15	,	wample for
15	Sickle cell anaemia is the best of	·
	a) Natural selection	b) Recombination of genes
	c) Polyploidy	d) Polymorphism

Section-II

	Write any 6 questions(Q.20 Compulsory) 6x2=12		
16	Vitaminosis is not applicable for water-soluble vitamins why?		
17	Which are called bio catalysts? Why?		
18	Define Antibiotic		
19	Differentiate generalised and specialized transduction		
20	Differentiate Antigen and Immunogen.		
21	What is Plasmid? What is its significance?		
22	Differentiate life span and life expectancy		
23	List out the poultry by products.		
24	What is Fecundity?		
	Section- III		
	Answer any Six of the following in which question no. 30 is compulsory 6x3=18		
25	Nutritional Rickets is a common problem among the Indian population living below		
	poverty line- justify .Suggest some measures for its prevention.		
26	Name some of the modern techniques used for correcting bone deformities.		
27	Define Zooanthroponosis.		
28	Differentiate active and passive immunity.		
29	Albinism is caused due to an inborn error in metabolism - Justify.		
30	What are Green house gases? What are its different types? Give Examples.		
31	What is Beehive? What are the different types of beehive?		
32	Define Mendelian Population.		
33	Define fish farming.		

Section- IV $5 \times 5 = 25$

Give the answer for the following questions

i) Explain how digested food materials get absorbed into the small intestine.

ii) Write down the steps involved in root canal treatment.

(or)

a)

- I) Gaseous exchange in alveoli.
- b) ii) Physiological effects of sleep.
- Write a note on structure of viruses.

Or

- i) Explain in detail about the techniques / methods that help to overcome graft rejection.
- ii) What is differentiation? How was it proved experimentally by the embryologists?
- Proteins undergo structural modification during its synthesis? Why? Write a note on the models that explains about its structure & its uses.

Or)

Define poverty. Write a note on its alleviation measures.

37 Explain about the mechanism of recording of heart waves with a neat labelled diagram.

Or)

What is natural selection? Write a note on the different types of selection.

Write an essay on the equipment used in bee hive.

(Or)

Integrated fish culture and its types.