Higher Secondary Second year

Model Question Paper – 1

Zoology

	Time: 2.30 hours Marks: 70	
	Section- I	
	I) Answer all the questions 15X 1 =	15
	Choose the most suitable answer from the given four alternatives and write the optio code and the Corresponding answer	n
1	The structural and functional unit of proteins is	
	a) Peptide b) Aminoacid	
	c) Peptone d) Polypeptide	
2	Selected the wrongly matched pair	
	a) Albumin - Osmotic Pressure	
	b) Globulin - Antibody formation	
	c) Fibrinogen - Anti coagulant	
	d) Bilirubin - Waste product of RBC	
3	Select the number of (isohedral) virus from the following:	
	Adenovirus, SV15, Pox virus, Polio virus, Mumps virus	
	a) 2 b) 3 c) 4 d) 5	
4	The organisms which are referred to as obligate intra cellular parasites are	
	a) Bacteria b) Mycoplasma c) Fungi d) Virus	
5	The organism that belongs to lentiviral subfamily is	
	a) RNA virus b) Pox virus	
	c) DNA virus d) Influenza virus	
6	Identity the bacteriolytic enzyme among the following	
	a) Lysosome b) Lysozyme c)lsozyme d) Endosome	
7	Hassall's corpuscles are locates in	
	a) Thymus b) Lymph node	
	c) Spleen d) Tonsil	

b) Hypotonic Solution

During karyotyping the cells are immersed in

a) Isotonic Solution

8

	c) Hypertonic solution d) Homogenous solution
9	Identify the correct palindrome sequence among the following base pains for
	5 GTTCCA 3
	a) 3 CAAGGT 5 b) 3 ACCAAT 5 c) 3 CGGAAT 5 d) 3 CAATTG 5
10	The halogen involved is destruction of ozone layer is
	a) Bromine b) Bromine, Iodine
	c) Bromine chlorine d) Fluorine, Bromine
11	Montreal Protocol was signed in the year
	a)1986 b) 1987
	c) 1988 d) 1989
12	The presence of β -carotene in jersey's milk imparts colour to it.
	a) White b) Orange
	c) Straw d) Yellow
13	Identity the fowl breed which has black coloured flesh
	a) Aseel b) Brahma
	c) Busra d) Karaknath
14	The wax of honey bees is mixed with the secretions of gland to be
	converted into propolis
	a) Wax gland b) Cephalic gland
	c) Salivary gland d) resinous gland
15	The book 'process of organic evolution' was written by
	a) Dobzhanskey b) Iwnaeowsky
	c) Ernest mayr d) G.L Stebbins
	Section- II
	Write any 6 questions (Q.20 Compulsory) $6x2 = 12$
16	Why women/females have low blood volume when compared to men?
17	Which is called sailor's disease? What are the symptoms associated with it?
18	Write a note on the features that help in identification of bacteria.
19	Differentiate T cell and B cell.
20	What is Human genetics? What are its contributions to the field of genetics?

21

Differentiate ecumen and non-ecumen areas.

22 List out the technique/methods used for assessing urine-sugar analysis 23 Define Lamarckism. 24 Elaborate : i) Pens ii) Bouchots **Section-III** Answer any Six of the following in which question no. 30 is compulsory 6x3 = 1825 Functions of Nephron. 26 What are dental caries? Give reasons. 27 What are the advantages of studying microbiology? 28 Differentiate specific non-specific immunity. 29 List out the factors that help in identification of chromosomes during Karyotyping. 30 Why studying of ecology is gaining importance these days? 31 How are poultry breeds classified? Give Examples 32 Why has the utility of auto analyser become inevitable these days? 33 Define theory of pangenesis Section- IV Give the answer for the following questions $5 \times 5 = 25$ 34 i) Enumerate the valves of Air circulation system, write a note on their location, their function's a) ii) What is Haemostasis? Write about the steps involved in it. (or) b) I) Elucidate how rhythymicity is ensured during breathing. ii) Differentiate inspiration and expiration. 35 Explain in detail about protozoan microbiology in man. Or What are antibiotics? Give Examples, Write in detail about the mode of action of antibiotics. 36 What is immuno deficiency disorder? Explain about it detail with examples. Or) Write a note on different methods of gene transfer.

37 Enumerate/name the organizations involved in Bio-diversity conservation.

Or)

List out the zoological names of cultivable fishes of India with their common names.

38 Explain about the mechanism of silk formation in silk worm .

(Or)

Write in detail about mariculture.