

Higher Secondary Second year

Model Question Paper – 2

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 option code and the Corresponding answer

- 1 Select the number of auto immune diseases from the following
- i ) Rheumatoid arthritis      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      -      Hypothyroidism  
b ) Tetany      -      Hyperparathyroidism  
c ) Grave's disease      -      Hyper thyroidism  
d ) Diabetes insipidus      -      poly urea
- I ) 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?



## 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 X 5 = 25**

**Give the answer for the following questions**

- 34 i ) Explain how digested food materials get absorbed into the small intestine.  
a) ii ) Write down the steps involved in root canal treatment.  
(or)
- b) I ) Gaseous exchange in alveoli.  
ii) Physiological effects of sleep.
- 35 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?
- 36 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.
- 38 Write an essay on the equipment used in bee hive.  
(Or)  
Integrated fish culture and its types.