

**HSC 12th Standard**

**Model Question Paper – 3**

**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 Which type of muscular exercise is beneficial for cardio-vascular system
- a) Isometric contraction                      b) Isotonic contraction  
c) Both a and b                                  d) Anaerobic muscular contraction
- 2 Unsaturated fatty acids are abundant in
- a) Hyper secretion of growth hormone in adults    A) Hyper glycemia  
b) Hyper secretion of thyroxine in adults            B) Critinism  
c) Hypo secretion of thyroxine in children            C) Myxoedema  
d) Hypo secretion of Insulin                              D) Acromegaly
- a) I) C      ii) D      iii) A      iv) B  
b) I) D      ii) C      iii) B      iv) A  
c) I) B      ii) D      iii) A      iv) C  
d) I) C      ii) A      iii) D      iv) B
- 4 Which of the following is antiretro viral drug
- a) Interferon    b) Pencillion    c) Zidovudin    d) Streptomycin
- 5 The virus used to prepare small pox vaccine is
- a) Adeno virus                                  b) Pox virus  
c) Variola virus                                  d) Vaccinia virus
- 6 Acquired immunity is found in
- a) Insects      b) Snails      c) Starfish      d) Birds and mammals
- 7 Transfer of immune products from an individual in to non-immune individual
- a) Innate Immunity                              b) Passive Adaptive immunity  
c) Active adaptive immunity                      d) Non-specific immunity

- 8 Which of the following is soluble Antigen?  
a) Virus                      b) Bacterial toxin   c) Bacteria                      d) Erythrocytes
- 9 If the palindrome sequence GGATTC read in 5'-3' direction the sequence on the opposite direction is  
a) GGATTC                      b) CCATTC                      c) CCTAAG                      d) CTTAAG
- 10 Which of the following is not related to Huntington's chorea?  
a) Uncontrolled twitching of voluntary muscles                      b) depression  
c) Occasional hallucination                      d) Partial albinism
- 11 A good choice among all the alternative fuel option is  
a) Natural Gas                      b) Butane  
c) Hydrogen                      d) Gobar gas
- 12 India's first power plant generating electricity from ocean energy is commissioned at  
a) Chennai                      b) Vizhinam  
c) Masoolipattinam                      d) Vizagapattinam
- 13 Minorca originated from  
a) Spain                      b) Australia
- 14 The life span of queen bee is  
a) 4-5 years                      b) 3-4 years  
c) 2-3 years                      d) 5-6 years
- 15 How many cocoons are required to obtain 1 Kg of raw silk?  
a) 50,000                      b) 55,000  
c) 45,000                      d) 40,000

## Section- II

**Write any six of the following**

**6x2=12**

- 16 Identify True and False Statement  
a) Menstrual cycle ceases during pregnancy  
b) Leydig cells are found in the ovary
- 17 What is cataract?
- 18 What is bubonic plague? What are its symptoms?
- 19 Name two auto immune diseases
- 20 What is the reason for albinism?

- 21 What are biomedical wastes? How are they disposed off?  
22 What are the symptoms for anthrax?  
23 Name any four milch breeds  
24 What is integrated fish culture?

### Section- III

**Answer any Six of the following in which question no. 30 is compulsory 6x3=18**

- 25 Name the following hormone  
a) Hyper glyceemic hormone
- 26 What is reflex arc? What are the organs involved in it?  
27 Write a note on amoebiasis.  
28 List out the Primary Lymphoidal organs.  
29 What is pedigree Chart? What are the diseases identified by pedigree chart?  
30 Why should biodiversity be conserved?  
31 What are the uses of bee venom?(Any three)  
32 What is 'Bottle Neck' effect?  
33 Which is the best medicinal food of 21<sup>st</sup> century? Why?

### Section- IV

**Give the answer for the following questions 5 X 5 = 25**

- 34 What are dental caries? Explain its symptoms and treatment.  
Or  
Explain the mechanism of breathing.  
35 Write an essay about symptoms, diagnosis control and management of AIDS.  
Or

What are the symptoms of graft rejection? What are the measures taken to prevent graft rejection?

36 Explain about human genetical diseases sickle cell anaemia and Huntington's chorea.

Or)

Explain about the management of Hazardous wastes.

37 Describe ECG [Electrocardiogram]

Or)

Describe genetic drift (or) Sewall Wright effect.

38 Describe about induced breeding technique in fish.

(Or)

What are environment and public health hazards caused by aquaculture practice. What are the steps taken by Government to overcome this?