

# H. S. C. BIOLOGY PAPER - II

Time : 2 Hours)

Question Paper : September 2009

(Max. Marks : 40

\* Note : Refer to Question Paper March 2008. \*

- Q. 1. Select and write the most appropriate answer from the given alternatives for each sub-question. [8]**
- (i) Zero population growth rate is achieved when birth rate is ..... (1)  
(a) Higher than death rate (b) Lower than death rate  
(c) Equal to death rate (d) Some times higher and some times lower than death rate.
- (ii) Which of these is a viral disease? (1)  
(a) Tuberculosis (b) Pneumonia (c) Leprosy (d) Polio
- (iii) W. W. W. stands for ..... (1)  
(a) World Wide Work (b) World Wide Websurfing  
(c) World Wide Web (d) World Wise Web
- (iv) Diagnosis of typhoid is done by ..... (1)  
(a) ELISA test (b) Vidal test (c) DLC (d) Angiography
- (v) The container in which vermicomposting is carried out is known as ..... (1)  
(a) Chandrika (b) Apiary (c) Vermary (d) Breeding happa
- (vi) Which of the following preservation technique is used for large fishes? (1)  
(a) Deep freezing (b) Sun drying (c) Canning (d) Salting
- (vii) Receptors sensitive to sound waves are called ..... (1)  
(a) Photoreceptors (b) Olfactoreceptors (c) Statoreceptors (d) Phonoreceptors
- (viii) The nervous band connecting two cerebral hemisphere is ..... (1)  
(a) Cerebral peduncle (b) Brain stem  
(c) Vermis (d) Corpus callosum
- Q. 2. (A) Explain the method of estimation of haemoglobin count with the help of haemometer. (2) [8]**
- OR**
- Write a note on input and output devices of a computer.
- (B) Explain : "Vermicompost as a bio-fertilizer." OR (2)**  
Give economic importance of Fishery.
- (C) Describe the morphology of Thyroid gland. (2)**  
**(D) What are the symptoms of Typhoid? (2)**
- Q. 3. (A) Sketch and label T. S. of Spinal Cord. (2) [8]**
- OR**
- (B) Write a note on Growth Hormone. (2)**  
Describe the role of Calcitonin.
- (C) Sketch and label T. S. of Human testis. (2)**
- (D) Describe the fate of three germinal layers in human embryonic development. OR (2)**  
Give reasons - Human testes are situated in scrotum.
- Q. 4. Attempt any TWO of the following : [8]**
- (A) Describe in brief different types of Leucocytes. (4)**  
**(B) Give the impact of population explosion on food supply and standard of living. (4)**  
**(C) Give the causative agent, symptoms and modes of transmission of AIDS. (4)**
- Q. 5. Write the help of neat labelled diagram describe the V. S. of Kidney and add a note on structure of Nephron. [8]**
- OR**
- (A) Describe the various types of valves present in Human heart. (4)**  
**(B) Sketch, label and describe the Central nervous system of Cockroach. (4)**