

Date 10/3/2010

## H. S. C. BIOLOGY - PAPER II

(GENERAL BIOLOGY AND ZOOLOGY)

Time : 2 Hrs.)

Question Paper : March 2010

(Max. Marks : 40)

Note : Please See to Question Paper March 2008.

Q. 1. (A) Select and write the most appropriate answer from the given alternatives in each sub-question. (8)

(i) Neurasthenia means ....

- (a) inability to concentrate (b) fear from stranger  
(c) withdrawal from social surroundings (d) mood swing

(ii) Night blindness is a ....

- (a) metabolic disease (b) deficiency disease (c) degenerative disease (d) genetic disease

(iii) Terminal parts of uriniferous tubule open into ....

- (a) collecting tubule (b) ureter (c) duct of Bertini (d) pyramid of medulla

(iv) The excretory wastes of Tadpole larva of frog and Adult frog are respectively .....

- (a) urea and uric acid (b) ammonia and urea (c) urea and ammonia (d) urea and urea

(v) It is a shock absorber and protects central nervous system from desiccation ....

- (a) dura mater (b) arachnoid membrane (c) cerebrospinal fluid (d) pia mater

(vi) In human brain the motor area of speech is present in ....

- (a) frontal lobe (b) parietal lobe (c) temporal lobe (d) occipital lobe

(vii) Mostly fertilization of ovum takes place at ....

- (a) isthmus of fallopian tube (b) infundibulum of fallopian tube  
(c) funds of uterus (d) ampulla of fallopian tube

(viii) In human testis the external layer of connective tissue sheath is .....

- (a) tunica vasculosa (b) tunica vaginalis (c) tunica granulosa (d) tunica albuginea

Q. 2. (A) "Vermicompost as a bio-fertilizer" --- Explain. OR (8)

Give economic important of Fishery.

(B) Enlist any 'four' motor cranial nerves. OR

Write a note on Carcinogenic agents.

(C) Give the significance of Endoscopy.

(D) Write a note on Bowman's capsule.

Q. 3. (A) Sketch and label the V.S. of Pituitary Gland. (8)

(B) Give the criteria for selection of Earthworm for Vermiculture. OR

Give any 'four' common problems of Adolescence.

(C) Sketch and label basic structure of Antibody.

(D) Write a note on Widal Test. OR

Define Database. Explain its types.

Q. 4. Attempt any TWO of the following. (8)

(A) Explain any 'two' disorders caused by under-secretion of Thyroxine.

(B) Describe the phases of Menstrual cycle.

(C) Give an account of Immune disorders.

Q. 5. Describe the internal structure of Human Heart with a suitably labelled diagram. (8)

OR

(A) Describe the V. S. of Kidney of Human being.

(B) Describe the Central Nervous System of Cockroach. ●●●