

Date.: 06.10.2010

BIOLOGY PAPER- II

Time : 2 Hrs.

Question Paper : October 2010 Max. Marks : 40

(General Biology and Botony)

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

- (i) The causative agent of AIDS is
- (a) Housefly (b) Mosquito (c) Taenia (d) HIV
- (ii) Which blood group has no antibodies in the plasma ?
- (a) A (b) B (c) AB (d) O
- (iii) In Sonography, ultrasound waves are produced using crystals of
- (a) Lead acetate (b) Lead chloride (c) Lead zirconate (d) Lead phosphate
- (iv) Which is the protein sequence database ?
- (a) Gen bank (b) DDBJ (c) EMBL (d) SWISS-PROT
- (v) The deoxygenated blood from body is received in ----
- (a) Left auricle (b) Right auricle (c) Right ventricle (d) Left ventricle
- (vi) Renal medulla contains
- (a) Columns of Bertini (b) Columns of Malpighi
(c) Columnae corneae (d) Chordae tendineae
- (vii) In favourable condition, paramecium reproduces by
- (a) Budding (b) Multiple fission (c) Binary fission (d) Fragmentation
- (viii) The vas deferens starts from the
- (a) Corpus epididymis (b) Cauda epididymis (c) Caput epididymis (d) Testis

Q. 2 Answer the following Questions :

- (A) Mention the methods of Fish preservation. **OR**
Discribe the production of Vermicompost on small scale.
- (B) Give the uses of Electrocardiograph (ECG). **OR**
Give the applications of Bioinformatics.
- (C) Sketch the label T.S. of Artery.
- (D) Explain the terms - Cretinism and Myxoedema.

Q. 3. Answer the following Questions :

- (A) Give the Food Value of Fishes.
- (B) Give the significance of Fertilization. **OR**
Give the functions of Uterus.
- (C) What are the symptoms of AIDS ?
- (D) Give the role of any two hormones secreted by Adenohypophysis. **OR**
Write a note on Parafollicular cells.

Q. 4. Attempt any TWO of the following :

- (A) Give the causative agent, symptoms and preventive measures of Typhoid.
- (B) Describe the Central Nervous System of Cockroach.
- (C) Describe the impact of population explosion on Health and Housing.

Q. 5. Answer the following Questions :

- Define Reflex action. Describe the components of reflex are and give significance of reflex action. **OR**
- (A) Explain the mechanism of working of Human Heart.
- (B) Describe the structure of Malpighian Corpuscle and add a note on Ultrafiltration.

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