

BIOLOGY QUESTION PAPER

Time : 2 Hrs.

Max. Marks : 40

- Q. 1. Select and write the most appropriate answer from the given alternatives in each sub-question :** [8]
- (i) Neurasthenia means (1)
- (a) inability to concentrate (b) fear from stranger
(c) withdrawal from social surrounding (d) mood swing
- (ii) Night blindness is a (1)
- (a) metabolic disease (b) deficiency disease
(c) degenerative disease (d) genetic disease
- (iii) Terminal parts of uriniferous tubule open into (1)
- (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 (1)
- (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 (1)
- (a) dura mater (b) arachnoid membrane
(c) cerebrospinal fluid (d) pia mater
- (vi) In human brain the motor area of speech is present in (1)
- (a) frontal lobe (b) parietal lobe
(c) temporal lobe (d) occipital lobe
- (vii) Mostly fertilization of ovum takes place at (1)
- (a) isthmus of fallopian tube (b) infundibulum of fallopian tube
(c) fundus of uterus (d) ampulla of fallopian tube
- (viii) In human testis the external layer of connective tissue sheath is (1)
- (a) tunica vasculosa (b) tunica vaginalis
(c) tunica granulosa (d) tunica albuginea
- Q. 2. (A) "Vermicompost as a bio-fertilizer" – Explain (2) [8]**
OR
Give economic importance of Fishery.
- (B) Enlist any 'four' motor cranial nerves. (2)**
OR
Write a note on Carcinogenic agents.
- (C) Give the significance of Endoscopy. (2)**
(D) Write a note on Bowman's capsule. (2)
- Q. 3. (A) Sketch and label the V.S. of Pituitary Gland. (2) [8]**
(B) Give the criteria for selection of Earthworm for Vermiculture. (2)
OR
Give any 'four' common problems of Adolescence.
- (C) Sketch and label basic structure of Antibody. (2)**
(D) Write a note on Widal Test. (2)
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. (4)
(B) Describe the phases of Menstrual cycle. (4)
(C) Give an account of Immune disorders. (4)
- Q. 5. Describe the internal structure of Human Heart with a suitably labelled diagram (8) [8]**
OR
(A) Describe the V. S. of Kidney of Human being. (4)
(B) Describe the Central Nervous System of Cockroach. (4)