

BIOLOGY QUESTION PAPER

Time : 2 Hrs.

Max. Marks : 40

Note :

- (i) All questions are compulsory.
- (ii) Draw neat, labelled diagrams wherever necessary.
- (iii) Figures to the right indicate full marks.
- (iv) Answer to every question must be written on a new page.

Q.1 Select and write the most appropriate answer from the given alternatives for each sub-question. [8]

- (i) The use of ultrasound waves and their returning echoes is the basis of (1)
 - (a) Angiography
 - (b) Sonography
 - (c) Endoscopy
 - (d) Photography.
- (ii) Which hormone stimulates release of milk from the mammary gland ? (1)
 - (a) Prolactin
 - (b) Oestrogen
 - (c) Lactinizing hormone
 - (d) Oxytocin
- (iii) The main device in a computer system is (1)
 - (a) Monitor
 - (b) Peripherals
 - (c) Input Devices
 - (d) C. P. U.
- (iv) Which of the following is not a marine fish ? (1)
 - (a) Bombay Duck
 - (b) Pomphret
 - (c) Labeo
 - (d) Mackerel.
- (v) The hypoadactivity of thyroid gland in adults causes (1)
 - (a) Myxoedema
 - (b) Cretinism
 - (c) Gigantism
 - (d) Exophthalmic goitre
- (vi) The is employed for rearing of earthworms. (1)
 - (a) Bamboo Tray
 - (b) Apiary
 - (c) Vermibox
 - (d) Poultry farm.
- (vii) The endometrium is a part of (1)
 - (a) Urinary bladder
 - (b) Uterus
 - (c) Ureter
 - (d) Urethra
- (viii) Which cells of the testis provide nourishment to the spermatozoa ?
 - (a) Sertoli cells
 - (b) Leydig cells
 - (c) Interstitial cells
 - (d) Spermatogonia.

Q.2 Answer the following questions : [8]

(A) What is Endoscopy ? Give its uses. (2)

OR

Give the applications of Bio-informatics. (2)

(B) How vermicomposting is done in a small scale ? (2)

OR

Why vermicompost is a good fertilizer ? Comment. (2)

(C) Describe in brief T. S. of Spinal Cord. (2)

(D) Distinguish between : Ureotelism and Uricotelism. (2)

Q.3 Answer the following questions : [8]

(A) Write a note on Malpighian body. (2)

(B) Give reasons - 'The Government of India made it compulsory to sale Iodized salt'. (2)

OR

Draw a neat labelled diagram of T. S. of Thyroid gland.

(C) What is Reflex action ? Give its significance. (2)

(D) Draw a neat labelled diagram of T. S. of Testis. (2)

OR

Write a note on Blastocyst.

- Q. 4. Attempt any two of the followings :** [8]
- (A) What is Innate immunity ? (4)
 - (B) Describe in brief different problems of Adolescents. (4)
 - (C) Give symptoms of AIDS. Add a note on preventive measures of AIDS. (4)
- Q.5 Answer the following :** [8]
- With the help of a neat labelled diagram describe the internal structure of Human heart. (8)
- OR**
- (A) Describe the physiology of urine formation in humans. (4)
 - (B) With the help of neat labelled diagram describe the Central Nervous system of Cockroach. (4)