

Second Year B.Sc. Degree Examination, August/September 2008

Directorate of Correspondence Course

ZOOLOGY

Paper – II : Histology, Comparative Anatomy, Biochemistry,
Biotechnology and Physiology

Time : 3 Hours

Max. Marks : 75

Notes : 1) All questions are compulsory.

2) Answer one mark questions in the first two pages of the main answer book.

3) Draw diagrams wherever necessary.

I. Simple questions :

Answer in a word, phrase or sentence :

(10×1=10)

- 1) In which organ do you find Islets of Langerhans
- 2) Expand PUC₁₉
- 3) Expand TSH
- 4) Name the deficiency disease caused by Vit. C
- 5) Name the thigh bone
- 6) Define Hibernation
- 7) Define Homopolysaccharides
- 8) Name 2 types of Diabetes mellitus
- 9) Define Enzymes
- 10) Name a cosmid.



II. Short answer questions :

Answer any FIVE of the following :

(5×3=15)

- 11) Draw a labelled diagram of T.S. of liver.
- 12) What is myogenic heart ? Give an example.
- 13) Classify Carbohydrates with examples.
- 14) Give any 3 scopes of Biotechnology.
- 15) Mention 3 deleterious effects of Tobacco smoking.
- 16) Expand MCA. Give 2 uses.
- 17) Write notes on Vitamin D.

III. Medium answer questions :

Answer any FIVE of the following :

(5×6=30)

- 18) Give a brief account of Gene therapy.
- 19) Describe the histology of T.S. of Pancreas.
- 20) Describe the biological significance of Proteins.
- 21) Compare the heart of Frog with that of Rabbit.
- 22) Explain synaptic transmission.
- 23) Explain the Ultrastructure of skeletal muscle.
- 24) Mention any 6 hormones secreted by Pituitary with one function each.

IV. Long answer questions :

Answer any TWO of the following :

(2×10=20)

- 25) Describe the histology of T.S. of Small intestine with labelled diagrams.
 - 26) Explain schematically the events of Glycolysis.
 - 27) Explain Recombinant DNA Technology. Add a note on its applications.
 - 28) Explain sources, structures, effects and deficiency diseases of Vitamin A.
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