



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

B.Sc. Honours Examination 2021

(CBCS)

4th Semester

ZOOLOGY

PAPER—SEC2T

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

SEC2T : MEDICAL DIAGNOSTIC TECHNIQUES

Group - A

Answer any *two* questions.

2×15

1. (a) Mention the different types of leucocytes available in human blood and state their functions.
- (b) What do you understand by erythrocyte sedimentation rate? State the significance of the assay. 5+(5+5)

2. (a) Compare the cause, symptoms and treatment of Type I and Type II Diabetes.
- (b) State the physiological conditions that can be diagnosed from the tests of urine sample of a patient for these parameters: pH, glucose content, bilirubin content, crystal clumps, leucocyte density. (5+5)+5
3. Write a note on Hypertension with reference to its types, symptoms, complications, and diagnosis. Write notes on Erythrocyte Sedimentation Rate (E.S.R) and Packed Cell Volume (P.C.V.). 8+(4+3)
4. (a) Define both good cholesterol and bad cholesterol with their clinical significance.
- (b) What is a Ghon complex with reference to tuberculosis infection? Name the drugs commonly used for treatment of tuberculosis. 8+(5+2)

Group - B

Answer any *one* question. 1×10

5. (a) State the characteristics of metastatic tumour.
- (b) What are the clinical significances of antibiotic sensitivity?
- (c) State the clinical information that can be obtained by conducting MRI. 4+2+4
6. (a) What is signet ring stage in malarial infection?
- (b) Why malignant malaria is more fatal than benign tertian malaria?
- (c) Mention the causes of hypertension. 3+3+4

SEC2T : SERICULTURE**Group – A**

Answer any *two* questions. 2×15

1. Define sericulture. Distinguish between mulberry and non-mulberry sericulture. Enlist different types of mulberry silkworm races? What are the mitigation measures against the diseases of silkworm? 2+4+2+7
2. Highlight with labeled diagram, the different stages in the life cycle of Bombyxmori. Describe spinning, harvesting and storage of cocoons in sericulture. Name two pests of silkworms. 7+6+2
3. Write about the different steps involved in developing an ideal mulberry garden. Comment on the applications of different disinfectants in sericulture. Enlist major varieties of mulberry plants. 8+4+3
4. Briefly discuss the problems and prospect of sericulture (mulberry and non-mulberry) in India, mentioning the roles of sericulture industry for the rural development. Add a note on the production of DFLs (Disease Free Layings). 11+4

Group – B

Answer any *one* question. 1×10

5. What is early age and late age rearing? Comment on some rearing appliances used in sericulture. Mention the criteria for developing an ideal rearing house. 4+2+4
6. Write a brief account on the history of sericulture in India. Mention the prime chemical composition of silk. Enlist two vertebrate and two invertebrate pests of silkworm. 4+2+4