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B.Sc./4th Sem (H)/ZOO/23(CBCS)

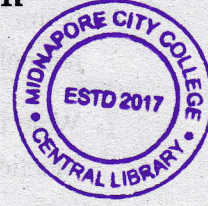
2023

4th Semester Examination

ZOOLOGY (Honours)

Paper : SEC 2-T

[CBCS]



Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

(Medical Diagnostic Techniques)

Group - A

Answer any *five* questions : $2 \times 5 = 10$

1. State a few symptoms that lead to the prescription of LFT (Liver Function Test).
2. What does the ESR reveal about an individual's health status?
3. Why Differential Leukocyte count is necessary?
4. Name the causative organism of Tuberculosis. Name one drug effective against treating tuberculosis.

P.T.O.



(2)

5. Write down the name of the hormones, the deficiency of which cause type 1 and type-2 diabetes respectively. Name the organs that secrete those hormones.
6. Name two unusual components of urine. What is the normal pH of urine?
7. Write the scientific name of causative organism of malaria. Mention the protozoan phylum to which it belongs.
8. Mention two differences between benign and malignant tumor.

Group - B

Answer any *four* questions : $5 \times 4 = 20$

9. Differentiate elaborately primary hypertension from secondary hypertension. 5
10. Write a note on antibiotic sensitivity test. 5
11. Write down biological functions of platelet. What is PCV? Mention conditions / factors that contribute to low PCW value. 2+3
12. Mention major symptoms of Tuberculosis. Mention one confirmatory and one any other lab test to identify tuberculosis pathogen in patient. 3+2
13. Write down the significance of lipid profiling. What is 'good cholesterol'? 3+2
14. Mention two major categories of Hepatitis in human. What are the hallmark symptoms of hepatitis in human? 2+3



(3)

Group - C

Answer any *one* question : $10 \times 1 = 10$

15. Write down the process of blood glucose estimation using a glucometer kit. What precautionary measures should be taken in this procedure to avoid misinterpretation? 7+3
16. Write down the diagnostic principle of malarial parasite with both microscopic and ELISA processes. What is the working principle of haemocytometer? Describe with diagram. 6+4





(4)

OR

(Sericulture)



Group - A

Answer any *five* questions : 2×5=10

1. Define Sericulture.
2. State the composition of silk.
3. What is moriculture?
4. What is cooking in Sericulture?
5. Difference between univoltine and bivoltine.
6. What is Stifling?
7. Write down any two sericulture farm of West Bengal?
8. Write the name of one protozoa and one fungi which causes silk worm disease.

Group - B

Answer any *four* questions : 5×4=20

9. Enlist different types of mulberry Silkworm races.
10. Highlight with Labelled diagram the different stages in the life cycle of *Bombyx Mori*.
11. Write a brief account on the history of sericulture in India.
12. Briefly describe spinning, harvesting and storage of cocoons in sericulture.

(5)



13. Mention the major varieties of mulberry plants. Enlist any two vertebrates and one invertebrates pests of silk worm.
14. Write down the control measures against the disease of silkworm.

Group - C

Answer any *one* question : 10×1=10

15. (i) Briefly discuss the problems and prospect of sericulture (mulberry and Non-mulberry) in India. 6
- (ii) Write a short note on the production of DFLs (Disease Free Laying). 4
16. What is early age and late age rearing? State some rearing appliances used in sericulture. Mention the criteria for developing an ideal rearing house. 4+2+4