

**U.G. 6th Semester Examination - 2022**

**ZOOLOGY**

**[PROGRAMME]**

**Skill Enhancement Course (SEC)**

**Course Code : ZOOL-G-SEC-T-04**

**(Medical Diagnostic Techniques)**

Full Marks : 40

Time : 2 Hours

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

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

1. Answer any **five** questions: 2×5=10
- a) What are the agranulocytes present in your blood?
  - b) Write the composition of our blood.
  - c) What do you mean by P.C.V.? Write its significance.
  - d) Write a short note on blood glucose level.
  - e) What are good cholesterols and bad cholesterols?
  - f) What is metastasis?

- g) What is LFT? What parameters are estimated here?
  - h) Classify different types of tumor.
2. Answer any **two** questions: 5×2=10
- a) Briefly describe the preparation of a human blood smear and its differential count using Leishman stain. 2+3=5
  - b) Write the procedure of estimating P.C.V. What are the clinical abnormalities predictable from this test? 2+3=5
  - c) Write the causative agent and early diagnosis of tuberculosis. 1+4=5
  - d) Why we should know antibiotic sensitivity? How it is measured? 2+3=5
3. Answer any **two** questions: 10×2=20
- a) What is the causative agent of malaria? Where do they found in our body? How will you identify a person infected with malaria using different diagnostic techniques? 1+1+4+4=10
  - b) Write the physical characteristics of urine. What are the abnormal constituents found in urine? Write their clinical significance. 3+3+4=10

c) What is liver cirrhosis? Discuss briefly each of the different parameters and their abnormal results reflecting in hepatitis.  $2+8=10$

d) Write short notes on any **two** of the following:  
 $5 \times 2 = 10$

i) PET

ii) MRI

iii) CT Scan

iv) Lipid profiling.

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