

U.G. 6th Semester Examination - 2021

ZOOLOGY

[PROGRAMME]

Skill Enhancement Course (DSE)

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

(Medical Diagnostic Lab)

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**: 2×5=10
- Mention the difference between neutrophil and eosinophil.
 - What is the significance of erythrocyte sedimentation rate (ESR)?
 - What is the full form of MRI scan? Why it is needed?
 - Mention two constituents not normally found in urine.
 - What is a neoplasm?
 - How do you differentiate between total blood count and differential blood count?

- Define hepatitis. What is the causative agent?
 - Differentiate HDL and LDL in lipid profiling.
2. Answer any **two**: 5×2=10
- What is a haemocytometer? Briefly mention the necessary steps required for counting of platelets using haemocytometer? 2+3=5
 - What according to you the test of choice for the detection of liver disease? Briefly mention two such tests for early detection of liver ailment. 1+2+2=5
 - Mention briefly the basic principle of the antibiotic sensitivity test. Why this test is essential in microbiology research? 4+1=5
 - Differentiate diabetes mellitus and diabetes insipidus. What is a glucometer? Why it is used? 3+1+1=5
3. Answer any **two**: 10×2=20
- What is the difference between sarcoma and carcinoma? How do you differentiate benign tumor and malignant cancer? Mention briefly two methods of treatment to resist tumor metastasis. How CT scan helps in the visualization of tumor? 2+3+3+2=10

b) Briefly mention the steps of differential counting of leucocytes in a laboratory setup. What is PCV? What is the significance of the test?

6+2+2=10

c) What do you mean by 'Fatty Liver' disease? Differentiate HDL and LDL. Briefly mention the steps followed in blood cholesterol measurement.

2+2+6=10

d) Mention the symptoms of pulmonary tuberculosis. How malignant malaria can be diagnosed? How do you differentiate hepatitis from tuberculosis?

3+4+3=10
