

**2022**  
**B.A./B.Sc.**  
**Fourth Semester**  
SKILL ENHANCEMENT COURSE – 2  
**ZOOLOGY**  
*Course Code: ZOS 4.11*  
(Medical Diagnostics)

*Total Mark: 35*  
*Time: 2 hours*

*Pass Mark: 14*

*Answer five questions, taking one from each unit.*

**UNIT-I**

1. Describe the composition of blood with diagrams. 7
2. Write notes on the following:
  - (a) Method on preparation of differential leucocyte count (DLC) using Leishman's stain and its significance. 3½
  - (b) Packed cell volume (PCV). 3½

**UNIT-II**

3. Write on the physical characteristics of urine. Explain the different types of urine test. 7
4. Write the abnormal constituent of urine and what the risks and contraindications of urine testing are. 7

**UNIT-III**

5. What are the causes, symptoms, diagnosis, treatment and prevention of secondary hypertension. 7
6. Give in detail the different methods to determine the blood glucose level in a person. 7

#### UNIT-IV

7. What is TB? Write the causes, symptoms, diagnosis and treatment of this non-infectious disease. 2+5=7
8. Write a note on the risks factors, diagnostic tests and treatment of hepatitis. 7

#### UNIT-V

9. What is metastasis? How does a tumour become metastasized? Write how to diagnose a metastasized tumour. 1+4+2=7
  10. Explain in detail the working principles of PET and its application in clinical diagnosis. 7
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