

**2024/TDC (CBCS)/EVEN/SEM/
ZOOSEC-401T/021**

TDC (CBCS) Even Semester Exam., 2024

ZOOLOGY

(4th Semester)

Course No. : ZOOSEC-401T

(Medical Diagnostics)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

UNIT—1

1. Answer any three of the following questions :

1×3=3

- (a) Mention the names of plasma protein.
- (b) Mention the function of B-lymphocyte.
- (c) What is DLC?
- (d) What is ESR?

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(Turn Over)



(2)

2. Answer any *one* of the following questions : 2

- (a) What is anticoagulant? Name the anticoagulant present in human blood.
- (b) What is Leishman's Stain? What is its composition?

3. Answer any *one* of the following questions : 5

- (a) Write in brief about the composition of blood.
- (b) Write the principle and procedure of platelet count using haemocytometer.

UNIT—2

4. Answer any *three* of the following questions :
1×3=3

- (a) Name the hormone present in the urine of pregnant women.
- (b) What is ketonuria?
- (c) Why urine culture is performed?
- (d) What does it mean if urine colour is cloudy?

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(Continued)

(3)

5. Answer any *one* of the following questions : 2

- (a) What is the normal composition of human urine?
- (b) What are the indications of blood in urine?

6. Answer any *one* of the following questions : 5

- (a) Describe the procedure for the collection of urine.
- (b) What are the objectives of urine analysis? Explain the various diagnostic tests for urine analysis. 1+4=5

UNIT—3

7. Answer any *three* of the following questions :
1×3=3

- (a) What are the types of diabetes?
- (b) What is diabetic ketoacidosis?
- (c) What is the function of Echocardiogram?
- (d) What are the standard reference values of fasting blood sugar for normal and diabetic condition?

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(4)

8. Answer any *one* of the following questions : 2
- (a) Write four differences between diabetes mellitus and diabetes insipidus.
 - (b) Write two diagnostic tests of hypertension. What is the importance of regular blood pressure monitoring? 1+1=2
9. Answer any *one* of the following questions : 5
- (a) What do you mean by Type 1 diabetes? Discuss procedure for testing blood glucose using glucometer. 1+4=5
 - (b) Define hypertension. Write about four common complications of hypertension. State four preventive measures of hypertension. 1+2+2=5

UNIT—4

10. Answer any *three* of the following questions : 1×3=3
- (a) What is the causative organism of Tuberculosis?
 - (b) What is tuberculin test?
 - (c) What type of genetic material found in Hepatitis B?
 - (d) What do you mean by hepatocellular carcinoma?

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(5)

11. Answer any *one* of the following questions : 2
- (a) Differentiate between active and latent Tuberculosis.
 - (b) Write a short note on Hepatitis C.
12. Answer any *one* of the following questions : 5
- (a) Discuss the various preventive measures of Tuberculosis infection.
 - (b) Discuss the different diagnostic tests for diagnosing hepatitis.

UNIT—5

13. Answer any *three* of the following questions : 1×3=3
- (a) What do you mean by benign tumor?
 - (b) What are the main sites of melanoma?
 - (c) What is the full form of PET?
 - (d) What is radiography?
14. Answer any *one* of the following questions : 2
- (a) Write four important application of MRI.
 - (b) Write a short note on malignant tumors.

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(6)

15. Answer any one of the following questions : 5

(a) What is CT Scan? Write principle of CT Scan. Mention four important applications of CT Scan. 1+2+2=5

(b) Describe the various tests for the detection of metastasis.

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