CENTRAL LIBRARY N.C.COLLEGE

2024/FYUG/EVEN/SEM/ ZOOSEC-151T/032

FYUG Even Semester Exam., 2024

ZOOLOGY

(2nd Semester)

Course No.: ZOOSEC-151T

(Medical Diagnostics)

Full Marks: 50
Pass Marks: 20

Time: 2 hours

The figures in the margin indicate full marks for the questions

SECTION-A

Answer any fifteen of the following questions:

1×15=15

- 1. What is blood plasma?
- 2. What is haemoglobin?
- 3. What are the different types of granulocytes present in blood?
- 4. What is anticoagulant?

(Turn Over)

(2)

- 5. What is abnormal sputum?
- 6. Why is stool analysis important?
- 7. What is ketonuria?
- 8. What do you mean by fecal occult blood test?
- 9. Which hormone is essential for regulating blood sugar levels?
- 10. What is aneurysm?
- 11. Name the instrument that is used to measure blood pressure.
- 12. What is the uncontrolled growth of abnormal cells called?
- 13. What is tuberculin?
- 14. Besides lungs, which other parts of the body can get infected by TB?
- 15. What organ does hepatitis affect?
- **16.** Which hepatitis virus have DNA as genetic material?
- 17. What is CT scan?
- 18. What is sonography?
- 19. Mention the use of spiral CT.
- 20. Why is MRI so noisy?

SECTION—B

Answer any five of the following questions: $2\times5=10$

- 21. What are blood platelets? How are blood platelets counted?
- 22. Write the functions of different plasma proteins present in blood.
- 23. What are abnormal constituents of urine?
- 24. Why are stool tests considered a valuable tool for diagnosis of gastrointestinal issues?
- 25. Differentiate between primary and secondary hypertension.
- 26. Write four differences between type 1 and type 2 diabetes.
- 27. Differentiate between latent TB and active TB.
- 28. Mention the names of different types of hepatitis.
- 29. Write the basic principle of CT scan.
- **30.** Write the important applications of sonography.

SECTION—C

Answer any five of the following questions: 5×5=25

31. What is ESR? Write a note on the principle of ESR and its significance. 1+4=5

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(4)

32.	What	is	PCV?	Briefly	describe	the	steps	
	involved in the measurement process of PCV.							
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1+4=5

- Describe how urine is analyzed in medical diagnostics. Add a note on how glucose is detected in urine.
- Write the main purposes of sputum analysis in medical diagnostics. List three types of microorganism that can be identified through sputum analysis.
 3+2=5
- 35. Write the characteristic features of metastatic cells. Add a note on detection methods of metastasis. 2+3=5
- **36.** What is diabetic ketoacidosis? Add a note on glucose tolerance test and HbA1c test. 1+2+2=5
- 37. Write a brief note on diagnosis and prevention of TB. 3+2=5
- 38. What do you mean by HBsAg? Write the symptoms and preventive measures of hepatitis B virus infection. 1+4=5
- 39. Write the basic principle of MRI. Add a note on the application of MRI in medical diagnostics.
 2+3=5
- 40. Why are X-rays considered a minimally invasive diagnostic tool? Add a note on medical condition where X-rays can help in diagnosis. 2+3=5
