

2021

ZOOLOGY — HONOURS

Paper : SEC-B-4-2

(Medical Diagnostic Technique)

Full Marks : 80

The figures in the margin indicate full marks.

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

Answer **any eight** questions.

1. (a) What is differential leucocyte count? Discuss DLC as diagnostic method for analysis of blood.
(b) What is metastasis? Comment on biopsy. (2+3)+5
2. (a) What is sensitivity test? Comment on risk of sensitivity analysis.
(b) Why someone needs antibiotic sensitivity test? How the results of antibiotic sensitivity test is determined? 6+4
3. (a) What is lipid profiling?
(b) What are different parameters of liver function test? How do they help to interpret liver function? 2+(3+5)
4. (a) What do you mean by hypertension?
(b) Differentiate between primary and secondary hypertension.
(c) How can you prepare a blood smear and stain it with Leishman's stain? Comment on composition of human blood. 1+4+(1+4)
5. Briefly describe the mosquito cycle of malignant malaria parasite. Comment on symptoms of malignant malaria. 2+2+3+3
6. (a) State the cause of tuberculosis disease. Write a brief note on types of tuberculosis.
(b) Mention the full form of PCV. How is PCV used in clinical diagnosis? (2+5)+(1+2)
7. Describe the uses of following instruments in medical diagnosis : 5+5
 - (a) Glucometer in testing blood glucose.
 - (b) Haemocytometer in platelet count.

Please Turn Over

8. (a) How can urine be cultured? Comment on its importance.
(b) Mention some ways of preventing Diabetes. (4+2)+4
9. (a) Comment on physical characteristics of abnormal urine.
(b) What is the gold standard technique for detection of malaria parasite. Explain the ELISA based diagnosis of malaria parasite. 4+(2+4)
10. (a) Describe any method of testing blood glucose.
(b) Mention the symptoms of Tuberculosis. 6+4
11. (a) What is PSA test? How does it help in medical diagnosis? Mention a limitation of this test.
(b) Write a note on characteristic features of cancer cell. (2+2+2)+4
12. (a) What is PET scan? What is the working principle of PET scan? How do PET scan and CT scan help in detecting cancer?
(b) Write a note on types and symptoms of hepatitis. (2+2+2)+4
13. Write short notes on : 5+5
(a) X-ray imaging in bone fracture.
(b) Blood composition as diagnostic measure for analysis of blood.
14. Name the different types of Hepatitis along with their causative agents. How can you prevent the disease? What is PCV? What is its significance? 2+3+2+3
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