This question paper consists of 27 questions and 3 printed pages.

Roll No. | | | | | | | | | | | | |

Code No. 53/VOC/O

Set A

DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY

(Biochemistry)

(477)

Day and Date of Examination .....

Signature of Invigilators 1. .....

2. .....

***General Instructions* :**

1. Candidate must write his/her Roll Number on the first page of the question paper.
2. Please check the question paper to verify that the total pages and total number of questions contained in the paper are the same as those printed on the top of the first page. Also check to see that the questions are in sequential order.
3. For the objective type of questions, you have to choose any *one* of the four alternatives given in the question, i.e., A, B, C or D and indicate your correct answer in the answer-book given to you.
4. Making any identification mark in the answer-book or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.
5. Answers for questions, like matching, true or false, fill in the blanks, etc., are to be given in the answer-book.
6. Write your Question Paper Code No. 53/VOC/O, Set A on the answer-book.

DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY

(Biochemistry)

(477)

Time : 3 Hours] [Maximum Marks : 75

Note : (i) *All* questions are compulsory.

(ii) Marks are indicated against each question.

Answer the following questions : 10+10=20

1. Explain glycogenesis, glycogenolysis and gluconeogenesis.

2. Enumerate various tests performed to assess liver function. Write about various liver enzymes in short.

Write short answers on the following : 5×7=35

3. Write down the name of various kidney function tests.

4. What are various clinically important electrolytes? Write their normal values.

5. Write a short note on thyroid hormones.

6. Define quality control. What are various types of error in laboratory?

7. Write a short note on SDS-PAGE.

8. What is the difference between an open system and a close system?

9. Define chromatography. Write its principle in short.

Fill in the blanks. Write your answer in the answer-book : 1×20=20

10. Normal range of triglycerides is _____.

11. Ketone bodies are formed in _____.

12. Normal value of SGOT is _____.

13. A foreign substance which causes production of antibody is _____.

14. Normal value of serum albumin is _____.

15. Deposition of lipid in blood vessels is called _____.

16. Two important cardiac enzymes are _____ and _____.

17. Normal value of protein in CSF is _____.

18. Passing sugar in urine is known as _____.

19. Full form of ADA is _____.

20. Example of fat-soluble vitamins is _____.

21. Normal value of serum Nat is _____.

22. Deficiency of _____ causes microcytic hypochromic anaemia.

23. _____ mineral is required for bones and teeth.

24. Two types of crystal formed in acidic urine are _____ and _____.

25. Decrease in pH of blood is called _____.

26. Sample mix-up error can lead to _____ problems.

27. Normal value of serum amylase is _____.

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