This question paper consists of 29 questions and 3 printed pages.

Roll No. ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚

DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY

(Microbiology)

(476)

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 Ⓐ on the answer-book.

DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY

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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. Describe the life cycle of *Ascaris lumbricoides.*

2. What are the indicators of moist heat sterilization?

Write briefly on the following :   5×7=35

3. Different methods for stool examination in the laboratory

4. Principle and uses of Ziehl-Neelsen staining

5. Segregation of biomedical waste

6. Structure of prokaryotic cell

7. Structure of immunoglobulin

8. Methods of enhancing agglutination

9. Normal flora of gastrointestinal tract

Write True or False for the following statements. Write your answer in the answer-book :

1×10=10

10. Life cycle of Plasmodium is spent in two hosts.

11. HRP-2 antigen is used for *P. falciparum.*

12. *Salmonella* can cause food poisoning.

13. Blood culture is positive mostly in 2nd week of enteric fever.

14. Leishmaniasis is transmitted by the bite of sandfly.

15. Alpha-*haemolytic streptococci* are known as *viridans streptococci.*

16. *Vibrios* grow better in acidic pH.

17. *Staphylococci* are gram-positive rods in clusters.

18. The mature quadrinucleate cysts of *Entamoeba histolytica* are the infective forms.

19. The maximum size of a bacterial cell is seen in the log phase of its growth curve.

Fill in the blanks. Write your answer in the answer-book :   1×10=10

20. _____ are lanceolate-shaped diplococci.

21. For meningococcal meningitis, _____ should be examined.

22. *Corynabacterium* has gram _____ rods.

23. Concentration methods in *Mycobacterium* are done for _____ sample.

24. Colonies of *Pseudomonas* have a _____ odour.

25. *Haemophilus* is gram _____ coccobacillary bacterium.

26. Ability of antigen to bind with antibody is termed as _____.

27. Scleroderma is an example of _____ disease.

28. In staining techniques, iodine acts as _____.

29. _____ is used to demonstrate capsule.

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