

D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1.

II B.Sc Biochemistry

Semester : III

Title of the paper: Medical Laboratory Technology - I

Subject Code : 15SBC3A

SECTION-A 2 Marks

1. What are the basic laboratory instruments used in a medical laboratories?
2. How is the grade of the chemicals classified?
3. What is the role of a colorimetry in a lab?
4. How 2% NaCl is prepared?
5. What is the use of distilled water, double distilled water and deionised water in the preparation of reagents?
6. How will you label the reagent bottle?
7. What is the use of an incubator in medical laboratory?
8. What are the steps to be followed in storage of chemicals?
9. What are the types of microscopes used?
10. What is the need of sterilization of apparatus in a lab?
11. Define quality control.
12. What are the ethics that has to be followed in a keeping the records of a laboratory test?
13. What is the normal, random and postprandial levels of blood glucose?
14. What are ketone bodies?
15. What is ketosis?
16. What are bile pigments?
17. What is the significance in estimating bile pigments in blood and urine?
18. What is random urine sample?
19. What is 24 hrs urine sample?
20. What are the preservatives used in the collection and storage of urine sample?

21. What are anticoagulants? Give example?
22. Define bleeding time. Give the normal bleeding time?
23. Give the normal level of haemoglobin in male and female.
24. What is the role of platelets in blood coagulation?
25. What are the specimens collected for a routine medical examination?

SECTION-C 10 Marks

1. What are the safety measures adopted in medical laboratory?
2. Give an account on the first aid precautions during a fire accident in a laboratory.
3. What are the steps to be followed in the preparation, storage and labelling of chemicals?
4. What is an analytical balance? Explain its role in a laboratory.
5. What is sterilization? What are the different types of sterilization techniques?
6. What are the general approaches of quality control?
7. How will you report a laboratory test?
8. Give an account on the various types of specimen collections.
9. Give the significance of estimating blood glucose.
10. What is the significance of estimating bile pigments in urine and faeces.
11. Give a detailed account on the collection and preservation of blood sample.
12. Explain the morphology and function of different types of blood cell.
13. Give the methods adopted for the preservation of various specimens.
14. Give an elaborate account on the various types of preservatives used.
15. What is bleeding time? How will you determine bleeding time?