

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
(Deemed to be University)**

**B.Sc (MEDICAL LAB TECHNOLOGY) DEGREE EXAMINATIONS - September
2021**

Second Year

PATHOLOGY - I

Three Hours

Maximum: 75 marks

SECTION - A

I. Choose the Best Answer :

(10 x 1 = 10)

1. The durable material used to make heat resistant glassware is:
a. Polyethylene b. soda lime c. Polystyrene
d. Borosilicate e. polyvinyl chloride
2. The liquid portion of blood remaining after a clot has formed is called:
a. the buffy coat b. Serum c. plasma
d. Lymph e. tissue fluid
3. If a patient refuses to have a venipuncture done you should:
a. tear up the requisition
b. collect a urine sample
c. politely ask a patient to come back next week
d. restrain the patient and proceed with the venipuncture
e. notify the patient's physician
4. Blood samples for cell counts must be thoroughly mixed immediately before testing to:
a. prevent the clumping of platelets
b. prevent the formation of small clots
c. oxygenate the sample
d. ensure even distribution of all blood components
e. mix anticoagulant with the blood
5. Separated serum that is dark yellow to amber in color is termed:
a. Crenated b. Lipemic c. jaundiced
d. Icteric e. Hemolyzed
6. Which statement is false when a Gram stain is performed:
a. distilled water is used for the washing steps
b. acetone-alcohol decolorizes gram-negative bacteria
c. safranin stains the gram-negative bacteria red
d. Gram's iodine is used to bind the primary stain
e. crystal violet stains the gram-positive bacteria purple
7. Two standard deviations from the mean includes:
a. 5% of all values b. 34% of all values c. 50% of all values
d. 68% of all values e. 95% of all values

(p.t.o.)

8. Xylene is used in:
 - a. fixation of autopsy material
 - b. dehydration of tissues
 - c. paraffin wax embedding process
 - d. attaching cover slips to slides
 - e. histology as a clearing agent
9. A 1/8 dilution of urine is:
 - a. 1-part water and 8 parts urine
 - b. 1-part urine and 8 parts water
 - c. 1-part urine and 7 parts water
 - d. 1-part water and 7 parts urine
 - e. 1-part water and 9 parts urine
10. The test that counts the number of immature RBC's is the:
 - a. osmotic fragility test
 - b. Differential
 - c. reticulocyte count
 - d. RBC count
 - e. stab cell count

II. Write Short Answers on any FIVE of the following:

(5 x 5 = 25)

11. SI units & conventional units different?
12. Preparation & indication of fixatives?
13. Use and care of microscope ,types
14. Write about eosinophil
15. Precaution in ABO blood grouping test?
16. What are the differences between win robes &westergren tube?
17. Urine examination.

III. Write Short Essays on any TWO of the following:

(2 x 10 = 20)

18. Sickling test
19. Preparation of smears and staining?
20. Dehydration/body fluids?
21. Write Rh-anti D serum test methods.

IV. Write Essays on any ONE of the following:

(1 x 20 = 20)

22. Staining techniques?
 - Fungi
 - Parasites
 - Bone tissues
 - Collage fibers &organism
23. Explain in iron deficiency anemia and investigation.

(SI.No.M21253)

