



RAN - 1803000201030072



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F. Y. B. Sc. (MLT) (Sem. - I) Examination

March - 2023

Medical Laboratory Technology : Paper - II

Equipments and Instruments in Medical Technology

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

F. Y. B. Sc. (MLT) (Sem. - I)

Name of the Subject :

Medical Laboratory Technology : Paper - II Equipments and Instruments in Medical Technology

Subject Code No.: **1803000201030072**

Seat No.:

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Student's Signature

(2) All questions are compulsory.

***O.M.R. Sheet ભરવા અંગેની અગત્યની સૂચનાઓ આપેલ
O.M.R. Sheetની પાછળ છાપેલ છે.***

***Important instructions to fillup O.M.R. Sheet
are given on back side of the provided O.M.R. Sheet.***

- Q. 8.** What is pH?
- a) Potential of hydrogen b) Power of halogen
c) Potential of halogen d) Power of hydrogen
- Q. 9.** What is the function of substage condenser?
- a) It forms real image and virtual image
b) It act as a source of illumination
c) It supports microscope
d) It focuses a cone of light on the slide
- Q. 10.** Measurement of osmolarity is based on _____.
- a) Ionic strength b) Osmotic pressure
c) Electrical potential d) Mass
- Q. 11.** Which filter is used for the sterilization of air?
- a) HEPA filter b) Depth filter
c) Earthen filter d) Seitz filter
- Q. 12.** In centrifuge, rpm stands for _____.
- a) Resolutions per minute b) Resolutions parts per minute
c) Revolutions per minute d) Revolutions parts per minute
- Q. 13.** _____ is fitted in dark field microscope.
- a) Simple condenser with annular diaphragm
b) Substage condenser with phase ring
c) Simple condenser with opaque ring
d) Abbe condenser with opaque disc

- Q. 21.** Which microscope is used for the visualization of viruses?
- a) Bright field microscope b) Dark field microscope
c) Fluorescence microscope d) Electron microscope
- Q. 22.** Colorimeter works on which principle?
- a) Beer's Law b) Lambert's Law
c) Both (a) and (b) d) None
- Q. 23.** Autoclave is used to destroy _____.
- a) Bacteria & viruses b) Fungi
c) Spores d) All of above
- Q. 24.** Balance contains _____.
- a) Scale b) Beam
c) Stirrup d) All of these
- Q. 25.** _____ gives contrast in phase contrast microscope
- a) Abbes condenser b) Annular diaphragm
c) Phase shifting plate d) Substage condenser
- Q. 26.** What is not the colligative property of a solution in osmometry?
- a) Osmotic pressure b) Boiling point
c) Ionic strength d) Freezing point
- Q. 27.** Autoclave works on which principle?
- a) Steam under pressure b) Dry heat air
c) Direct flaming d) None

- Q. 41.** Resolution depends on _____.
- a) Distance between two objects b) Wavelength of light
c) Numerical aperture d) All of above
- Q. 42.** _____ is used as a light source in colorimeter.
- a) Tungsten filament b) Hydrogen lamp
c) Xenon lamp d) All of these
- Q. 43.** _____ is an example of moist heat sterilization.
- a) Autoclave b) Hot air oven
c) Incineration d) All of above
- Q. 44.** In distillation unit, condenser carries _____.
- a) Electricity b) Kerosene
c) Cold water d) Gas
- Q. 45.** _____ used as a stain in electron microscopy.
- a) Phosphotungstic acid b) Uranyl acetate
c) Osmium tetroxide d) All of above
- Q. 46.** Spectrophotometer is worked with _____ light.
- a) UV b) Visible
c) IR d) All of above
- Q. 47.** _____ is used to sterilize culture media.
- a) Autoclave b) Hot air oven
c) Incinerator d) Incubator

Q. 48. Solution having pH 3.4 is called _____.

- a) Alkali
- b) Acidic
- c) Neutral
- d) Basic

Q. 49. In TEM, the amount of electron scattering is proportional to _____.

- a) The sectioning of specimen
- b) The source of illumination
- c) The nature of specimen mounting
- d) The electronic density of specimen

Q. 50. Chamberland filter was made up of _____.

- a) Unglazed porcelain
 - b) Asbestos
 - c) Polyester
 - d) Cellulose acetate
- _____

SPACE FOR ROUGH WORK