AD-3293

Third Year B. Sc. (Sem. VI) Examination
March/April – 2015
Medical Technology
MT - 22 : Laboratory Instrument & Techniques

Time: Hours] [Total Marks: 50

Instructions:
(1)

(2) Figures to the right indicate marks.
(3) Draw labelled diagram where needed.

1 Answer the following briefly: 8

(1) List the blood gas parameters and give its normal range.
(2) What is epidemiologic typing methods?
(3) What is background count? Why is it produced in a liquid scintillation counter?
(4) What is computed tomography.

2 Attempt any two of the following: 14

(1) Discuss in detail the gene amplification technique and its applications in clinical diagnosis.
(2) Describe the flame photometry. Write the working principle and components of atomic absorption flame photometer.
(3) Explain in detail the biochemical applications of radioisotopes.

AD-3293] 1 [ Contd......
3 Answer any two of the following:

(1) Explain in detail automation in Microbiology and Hematology laboratory.

(2) Write the difference between nephelometry and turbidometry. Mention the applications of nephelometric techniques.

(3) Explain primary and secondary fluors.

4 Write short notes on: (any two)

(1) Fluorimetry

(2) Western blotting techniques

(3) GM counter.