

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Explain the mechanism of respiration with the help of diagram.
- Q.4 Explain the method of sterilization by an autoclave. Draw labeled diagram.
- Q.5 Explain the formation and composition of urine.
- Q.6 What is analytical balance. Give the procedure and precautions while handling the balance.
- Q.7 Explain the different methods for collection of blood.

No. of Printed Pages : 4

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3rd Sem. / DMLT

Subject : Introduction to MLT-I (DET-L)

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Name the parts of digestive system.
- b) Give the names of diseases caused by deficiency of vit A & D.
- c) Draw a labeled diagram of liner.
- d) Give the full form of TLC and DLC.
- e) What is flagella.
- f) Define microscope.
- g) Name any 2 cleaning agents used in laboratory.
- h) Name two gram positive bacteria.
- i) Define physiology.

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- j) Give the normal value of TLC in adults.
- k) What are aerobes.
- l) Define disinfectant . Give one example also.
- m) Define selective media.
- n) Name two anticoagulants.
- o) Write the temperature and time for sterilization in hot air oven.
- p) What is biochemistry.
- q) What is called as father of microbiology.
- r) Define EDTA.
- iv) Draw a labeled diagram of microscope.
- v) Draw a labeled diagram of bacterial cell.
- vi) Differentiate gram positive bacterial cell wall from gram negative bacterial cell wall.
- vii) Explain the working of differential cell counter.
- viii) Define vitamins. Name the water soluble vitamins.
- ix) Give the principle of TLC by hemocytometry.
- x) Give the merits and demerits of EDTA.
- xi) Write the safety precautions which you take at the time of sampling and collection of blood.
- xii) Give examples of uses of liquid and solid media.
- xiii) Give the use of antiseptics.
- xiv) Explain the procedure of Leishman stain for DLC.
- xv) What is calorimeter. Explain its working.

SECTION-B

Note: Short answer type questions. Attempt any ten parts
10x4=40

- Q.2
- i) Give the Function of kidneys.
 - ii) Write short note on BMR.
 - iii) Classify microorganisms on the basis of their morphology.

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