Total No. of Questions: 6] [Total No. of Pages: 1

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[3758]-1 D.M.L.T.

BIOCHEMISTRY

Time: 3 Hours [Max. Marks: 100

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- Q1) Enumerate renal function tests. Explain the tests based on tubular function. [15]
- Q2) Explain the principle, components and applications of colorimeter. [15]
- Q3) Explain quality assurance programme in clinical laboratory. [15]
- Q4) Define enzymes. Describe factors affecting enzyme action. Write a note on therapeutic use of enzymes.[15]
- Q5) Write short notes on: (Any Four)

[20]

- a) Glucose tolerance test.
- b) Laboratory hazards.
- c) Blood buffers.
- d) Lipid profile.
- e) Serum bilirubin.
- Q6) Write short notes on: (Any Four)

[20]

- a) Enumerate plasma proteins and write any four functions of plasma proteins.
- b) Calibration of pipettes and volumetric flasks.
- c) Preparation of normal, molar, percent solution.
- d) Serum electrolytes.
- e) Thin layer chromatography.

Total No. of Questions: 6]

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[3758]-2

D.M.L.T.

MICROBIOLOGY

(Paper - II)

Time : 3 Hours] [*Max. Marks : 100*

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Draw diagrams wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Your answers will be valued as whole.
- Q1) Draw a neat labeled diagram of a bacterial cell. Discuss various cell structures.

[15]

[Total No. of Pages : 1

- Q2) Discuss sample collection, processing of urine sample for laboratory diagnosis of urinary tract infection. [15]
- Q3) Enumerate antigen antibody reactions. Discuss principles and applications of precipitation reactions.[15]
- Q4) Name the protozoa causing diarrhea. Describe life cycle, pathogenesis and laboratory diagnosis.[15]
- **Q5**) Write short notes on: (Any Four)

[20]

- a) Coagulase test.
- b) Hot air oven.
- c) Disposal of biomedical waste generated in Microbiology laboratory.
- d) TCBS medium.
- e) Antibiotic susceptibility testing.
- **Q6**) Write short notes on: (Any Four)

[20]

- a) Cryptococcus neoformans.
- b) Polio vaccine.
- c) LPCB in mycology.
- d) Egg inoculation.
- e) Role of PBS in laboratory diagnosis.

Total No. of Questions: 6]

[Total No. of Pages: 1

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[3758]-3

D.M.L.T.

PATHOLOGY

(Paper - III)

Time: 3 Hours [Max. Marks: 100

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- Q1) What are fixatives? Enumerate different fixatives used in histopathology laboratory. Describe in detail about formalin. [15]
- Q2) Describe preparation and staining of an ideal P.B.S. Describe the method of reporting of P.B.S.[15]
- Q3) Describe in detail C.S.F. examination.

[15]

- Q4) Enumerate various transfusion transmitted diseases. How will you investigate a case of transfusion reaction?[15]
- Q5) Write short notes on: (Any Four)

[20]

- a) Block making.
- b) Decalcification.
- c) Hematoxylene.
- d) Cross matching.
- e) Bombay blood group.
- Q6) Write short notes on: (Any Four)

[20]

- a) Packed cell volume.
- b) Morphological classification of anemia.
- c) Special stains in hematology.
- d) Fine needle aspiration cytology.
- e) Proteinuria.