

B.Sc. Allied Health Sciences Third Year (Semester-V)

Examination May-2013

B.Sc. Medical Laboratory Technology (M.L.T)

Time : 2.30 Hrs.

Max. Marks : 80]

BIOCHEMISTRY-V

Q.P Code : AHS-105

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe in detail the formation and excretion of bilirubin.
2. What is the normal serum calcium level? Describe the homeostasis of calcium in blood.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Functions of gastric juice.
4. Quality control.
5. Metabolic acidosis.
6. Creatinine clearance test.
7. Renal regulation of blood PH.
8. Renal tubular function tests.
9. Absorption of iron in the body.
10. Functions of calcium.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Liver enzymes.
12. Hemosiderosis.
13. Anion Gap.
14. $\text{Na}^+ - \text{K}^+ \text{ ATPase Pump}$.
15. Van den berg's reaction.
16. Normal serum values A) Sodium B) Chloride.
17. Wilson's disease.
18. Blood buffers.
19. Functions of phosphorus.
20. Mention the causes of respiratory acidosis.
21. Define accuracy and precision.
22. Barr test

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MICROBIOLOGY - V

Q.P Code : AHS-109

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. List the protozoan parasites causing diarrhoea. Describe morphology, life cycle and lab diagnosis of entamoeba hystolytica.
2. List intestinal nematodes. Describe life cycle, pathogenesis and lab diagnosis of hook worm.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Laboratory diagnosis of malaria.
4. Giardia lamblia.
5. Fasciola hepatica.
6. Hydatid cyst.
7. Toxoplasmosis.
8. Filariasis.
9. Ascaris lumbricoides
10. Viscera leishmaniasis.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. List opportunistic protozoa.
12. List free living amoebae.
13. Draw a neat labelled diagram of trichomonas vaginalis.
14. Name three bile stained eggs
15. Name three trematodes.
16. NIH swab.
17. Name three stains in parasitology.
18. Name three stool concentration techniques.
19. Name three intestinal nematodes.
20. Hyperinfection strongyloidosis.
21. Draw a neat labelled diagram of wuchereria bancrofti.
22. Modified ziehl – neelsen technique.

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PATHOLOGY - V

Q.P Code : AHS-107

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Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. What are the methods of collection of samples for cytological examinations? Describe in detail all the steps in preparation and staining of cervical smear.
2. Describe in detail indications, contraindications, procedure of CSF analysis. Write a note on cytology of CSF sample.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Shorr's stain
4. Write a note on cytological examination of sputum
5. Cytology in malignant ovarian tumours
6. Papanicolaou staining technique
7. Differences between normal and malignant cell
8. Cytological indices in exfoliative cervical cytology
9. Radiation changes in cells
10. Collection of material from gastrointestinal tract to study cancer cells

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Cytology of adenocarcinoma lung
12. Geimsa stain
13. Cytological criteria of malignancy
14. Cell block
15. Definition of exfoliative cytology
16. Normal cytology of urinary sediment
17. Principle of pap stain
18. Karyopyknotic index
19. Aceto orcein stain
20. Cytology of normal endometrium
21. Mention three body fluids
22. CSF findings in pyogenic meningitis