

B.Sc. Allied Health Sciences Third Year Semester-VI

July/August 2019 Examination

B.Sc. Medical Laboratory Technology

Time : 2.30 Hrs.

Paper-I

[Max. Marks : 80]

Subject: Applied aspects of Biochemistry

Q.P Code : J6060

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe in detail the automation of analytical process in the Clinical Biochemistry laboratory.
2. Describe thyroid function tests in detail.

SHORT ESSAY (Answer any six)

6 X 5 = 30 Marks

3. Explain the Principles of Medical Ethics.
4. Give an account on Principle, different types and applications of Electrophoresis.
5. Define Lipoproteins & classify Lipoproteins with their functions.
6. Mention the advantages and applications of ELISA.
7. Describe the Preparation & interpretation of L J Chart.
8. Describe the similarities, advantage, disadvantage between the colorimeter & spectrophotometer
9. List 5 transport functions of plasma proteins. Mention their functions.
10. List any 3 biochemical parameters analysed in pleural fluid and its clinical importance

SHORT ANSWERS (Answer any ten)

10 X 3 = 30 Marks

11. Microalbuminuria
12. Define Preanalytical errors and mention any two causes
13. Define clearance test. Name the various clearance test
14. Colorimeter: principle & application
15. Biochemical changes in hyperthyroidism.
16. Light's Criteria
17. Name 3 stains used to stain lipoproteins
18. Vandenbergh test: Principle & importance
19. Name the 3 ketone bodies.
20. Write the different types of audit in a laboratory.
21. Define Mean & Median
22. Write the reference range for (1) Serum Urea (2) Serum Creatinine (3) Serum Uric acid

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Time : 2.30 Hrs.

Paper-II

[Max. Marks : 80]

Subject: Applied aspects of Microbiology

Q.P Code : J6070

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. List the organisms causing Pneumonia. Describe the laboratory diagnosis of *Streptococcus pneumoniae*. (3+2+5)
2. List the causes and common organisms causing Urinary tract infection (UTI) and laboratory diagnosis of UTI (3+2+5)

SHORT ESSAY (Answer any six)

6 X 5 = 30 Marks

3. ELISA – Principle and applications
4. Blood culture
5. Safe injection practices
6. Laboratory diagnosis of HIV.
7. Culture media – Classification with examples.
8. Antibiotic susceptibility testing
9. Laboratory diagnosis of Tuberculosis
10. Grams stain - Steps

SHORT ANSWERS (Answer any ten)

10 X 3 = 30 Marks

11. Transport media with examples.
12. Name 3 motile organisms.
13. Draw a labelled diagram of ova of hook worm.
14. Mention 3 uses of Sodium hypochlorite.
15. Peripheral blood smear for Malaria parasite.
16. Mention the positive and negative controls used for QC of Blood agar.
17. Name 3 capsulated organisms.
18. Steps of Hand Hygiene.
19. Name 3 organisms causing skin and soft tissue infections.
20. Name 3 Opportunistic parasites causing diarrhea.
21. Name 3 anaerobic culture methods.
22. Name 3 organisms causing dysentery.

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B.Sc. Allied Health Sciences Third Year Semester-VI

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Time : 2.30 Hrs.

Paper-III

[Max. Marks : 80]

Subject: Applied aspects of Pathology

Q.P Code : J6080

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe different modes of sample collections, transport, preservation and processing of body fluids.
2. Define Hypersensitivity reactions. Describe different types of hypersensitivity reactions with examples

SHORT ESSAY (Answer any six)

6 X 5 = 30 Marks

3. Discuss CSF cytology in meningitis.
4. Define biomedical waste management. Discuss their safe management of it.
5. Describe collection, preparation and staining of sputum for cytology.
6. Describe Coomb's test.
7. Describe transfusion reactions.
8. Define benzidine test. Describe the procedure.
9. Describe microscopy of urinary sediment. Write a note on urinary casts
10. Describe pathogenesis of pernicious anemia.

SHORT ANSWERS (Answer any ten)

10 X 3 = 30 Marks

11. What are crystals? Name the conditions associated with urinary crystals
12. Define hypersensitivity reaction.
13. Mention three antigen antibody mediated diseases.
14. What is Autoimmune disease.
15. List three differences between transudate and exudates
16. Mention three renal function tests.
17. Name 3 different modes of urine sample collections
18. What is serum sickness.
19. Name the parts of Antigen.
20. Name the antibodies present in thyroiditis.
21. Name three hemolytic anemia.
22. Name 3 colour coding for biomedical waste management.

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