

B.Sc. Allied Health Sciences
Second Year Semester-IV (CBCS Scheme)
August - 2018 Examination
B.Sc. Medical Laboratory Technology (MLT)

Time : 2.30 Hrs.

[Max. Marks : 80]

MICROBIOLOGY-I

Q.P Code : MLT401CC

*Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.*

LONG ESSAY

2 X 10 = 20 Marks

1. Enumerate Gram positive cocci. Describe the morphology, cultural characteristics and pathogenicity of Staphylococcus aureus.
2. Enumerate bacteria that cause diarrhoea. Describe the morphology, cultural characteristics and pathogenicity of Vibrio cholera. Add a note on Laboratory diagnosis of cholera.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. ASLO test.
4. Laboratory diagnosis of Diphtheria.
5. Clostridium difficile.
6. Laboratory diagnosis of UTI.
7. Blood culture techniques for isolation of Salmonella Typhi.
8. Mantoux test.
9. Malignant pustule.
10. Cultivation of Mycobacterium leprae.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Robertson's cooked meat medium.
12. List three species of Klebsiella.
13. List three motile bacilli.
14. Enumerate three infections caused by e-coli.
15. List three species of Shigella.
16. List three organisms producing exotoxin.
17. List three pigments produced by Pseudomonas.
18. Reverse CAMP test.
19. Mention three sites of extra pulmonary tuberculosis.
20. Catalase test.
21. List three differences between Pneumococci and viridans Streptococci.
22. List three biotypes of Corynebacterium diphtheriae.

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MICROBIOLOGY-II

Q.P Code : MLT402CC

*Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.*

LONG ESSAY

2 X 10 = 20 Marks

1. Enumerate the species of Plasmodium. Describe the pathogenesis and laboratory diagnosis of Malaria. Add a note on Black water fever.
2. Enumerate the Cestode parasites. Describe the life cycle and pathogenesis of Taenia solium infection. Add a note on laboratory diagnosis.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Laboratory diagnosis of Wuchereriasis.
4. Concentration techniques of stool.
5. Pathogenesis and laboratory diagnosis of extraintestinal amoebiasis
6. Life cycle of Fasciola hepatica.
7. Etiology and pathogenesis of Oriental sore.
8. Life cycle of Balantidium coli.
9. Larva Migrans.
10. Life cycle and laboratory diagnosis of Enterobius vermicularis.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. List three parasites found in the eye.
12. Name three bile stained eggs.
13. List three differences between Ancylostoma and Necator.
14. List three parasites found in the subcutaneous tissue.
15. Draw a diagram of trophozoite of Trichomonas vaginalis.
16. Toxoplasma tissue cyst.
17. Explain the term viviparous with example.
18. Draw a diagram of egg of Hymenolepis nana.
19. Enumerate three species of Schistosoma.
20. Define Intermediate host.
21. List three differences between Trematodes and Cestodes.
22. Draw a neat diagram of egg of Ascaris lumbricoides.

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MICROBIOLOGY-III

Q.P Code : MLT403CC

*Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.*

LONG ESSAY

2 X 10 = 20 Marks

1. Classify fungal infections. Describe the morphological characteristics, cultural characteristics and laboratory diagnosis of agents causing Mycetoma.
2. Describe the morphology, pathogenesis and laboratory diagnosis of hepatitis B virus infection. Add a note on prophylaxis.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Describe the steps of viral multiplication.
4. Polio vaccines.
5. Clinical features, laboratory diagnosis and prevention of Mumps.
6. Laboratory diagnosis of dengue.
7. Slide culture technique..
8. Laboratory diagnosis of Pencillois.
9. Laboratory diagnosis of cryptococcus.
10. Pneumocystis jirovecii.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Explain the term Phage typing.
12. Draw a diagram of Embryonated hens egg showing the various routes of inoculation.
13. List three infections caused by Herpes simplex virus.
14. List three modes of HIV transmission.
15. List three viruses causing diarrhea.
16. List three vaccines for Rabies.
17. List three methods to detect viral growth in cell culture.
18. Explain the term viral peplomer.
19. KOH preparation.
20. Explain the term Chlamyospore.
21. List three genera of Dermatophytes.
22. List three infections caused by Candida albicans.