

[AHS 0321]

MARCH 2021

Sub. Code: 5019

(AUGUST 2020 EXAM SESSION)

B.Sc. MEDICAL LABORATORY TECHNOLOGY

SECOND YEAR (From 2010-2011 onwards)

PAPER IV – MICROBIOLOGY – I AND PARASITOLOGY, ENTOMOLOGY

Q.P. Code : 725019

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

**I. Elaborate on:**

(3 x 10 = 30)

1. Enumerate intestinal nematodes. Describe the life cycle, pathogenicity and laboratory diagnosis of round worm.
2. Enumerate the antigen –antibody reactions. Describe briefly the principle, procedure and interpretation of WIDAL test.
3. Define and classify sterilization. Describe in detail about principle, procedure, uses of a hot air oven. Add a note on sterilization control.

**II. Write notes on:**

(8 x 5 = 40)

1. Laboratory diagnosis of intestinal amoebiasis.
2. Hand hygiene – types, steps and five moments.
3. Central sterile supply department (CSSD) – workflow and processing.
4. Structure and functions of Immunoglobulin M.
5. Fluorescent microscope – principle and uses.
6. Fumigation of operation theatres.
7. Specimen collection and processing of urine sample.
8. Laboratory diagnosis of cholera.

**III. Short answers on:**

(10 x 3 = 30)

1. Oxidase test - principle and use.
2. Define enrichment media with two examples.
3. Mention three zoonotic parasitic diseases.
4. Entero test and its uses.
5. Inspissation – definition and uses.
6. Heat tolerance test and its uses.
7. Mention three opportunistic parasitic infections in HIV.
8. List out the waste items discarded in blue bin in biomedical waste management.
9. Vaccine for Hepatitis – B.
10. Name three personal protective equipment and their uses.

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