[LL 0817] AUGUST 2017 **Sub. Code: 1217**

B.Sc. CRITICAL CARE TECHNOLOGY
(New Syllabus 2014-2015)

SECOND YEAR

PAPER II – CLINICAL MICROBIOLOGY

Q.P. Code: 801217

Time: Three Hours **Maximum: 100 Marks**

Answer all questions

I. Elaborate on: **(3 x 10 = 30)**

1. Define biomedical waste; what are the categories of biomedical waste? How will you segregate biomedical waste at source? Add a note on the importance of biomedical waste management.
2. List the pathogens causing viral hepatitis; Write in detail about the prevention of viral hepatitis.
3. Draw a neat diagram of a hot air oven and explain the principle. List the materials sterilized by ETO sterilization. List the advantages and disadvantages of using a hot air oven for sterilization.

II. Write notes on: **(8 x 5 = 40)**

1. Describe the procedure to collect urine sample from a patient who is in a coma?
2. How will you prevent the spread of drug resistant *E coli* in the hospital?
3. Principles of infection control in the ICU.
4. How will you control tuberculosis?
5. What are the precautions to be taken while providing care to a patient on ventilator?
6. How is septicaemia identified?
7. How is air quality assessed by active surveillance?
8. List the sources for hospital acquired infections.

III. Short answers on: **(10 x 3 = 30)**

1. Define: sterilization and disinfection.
2. Significant bacteriuria.
3. How is good quality wound care provided?
4. Mention two common modes of transmission of HCV infection.
5. Mention two diseases spread by aerosols.
6. Give one example for cocci in pairs and one for cocci in clusters.
7. How do you sterilize antibiotic solutions, glass tubes and distilled water?
8. Define live attenuated and killed vaccine.
9. Define epidemic and endemic.
10. Mention into which colour coded bag are gloves, soiled dressings and scalpel blades discarded.

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