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Total No. of Printed Pages: [01]

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B.Sc. (Cardiac Care Technology) (Semester – 2nd)

GENERAL MICROBIOLOGY

Subject Code: BCCTS1-203

Paper ID: [21132409]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a. Write about Koch postulates.
- b. Write principle of Gram straining.
- c. Write the functions of IgA.
- d. Name infections caused by Staphylococcus aureus.
- e. Name any two types of infections caused by fungi.
- f. Write about routes of infection of HIV.
- g. Write any four properties of Cestodes.
- h. Write about collection and transport of sputum specimen.
- i. Write any two uses of fluorescent microscope.
- j. Give two examples each of toxoids and killed vaccines.

Section – B

(5 marks each)

- Q2. Explain various types of liquid culture media and any one use of each.
- Q3. Explain universal safety precautions and importance of hand washing.
- Q4. Write about pathogenesis and lab diagnosis of pulmonary tuberculosis.
- Q5. Explain methods of lab diagnosis of Hepatitis B Virus.
- Q6. Draw and explain life cycle of Entamoeba histolytica.

Section – C

(10 marks each)

- Q7. Define sterilization and disinfection. Explain various methods of disinfection.
- Q8. Discuss types of hospital acquired infections and methods to control them.
- Q9. Describe life cycle and lab diagnosis of malarial parasite.