Roll No……..….. **Total No. of Printed Pages: [01]**
Total No. of Questions: [09]

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 og 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.