

**Roll No.....**  
**Total No. of Questions: [09]**

**Total No. of Printed Pages: [01]**

**B.Sc. (Cardiac Care Technology) (Semester – 2<sup>nd</sup>)**  
**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.