

Sample Question
UNIT-I

- 1. Answer any five:**
 - a. Write a short note on autoclave. What do you mean by cardinal temperature of microorganisms? (3+2)**
 - b. What do we mean by pure culture? Describe the techniques of isolation of pure culture from a sample. What is agar-agar? (1+3+1)**
 - c. What do we mean by sterilization? What is Pasteurization? How dry heat can be used for sterilization? Write the name of a gaseous sterilizing agent. (1+2+1+1)**
 - d. Write a short note on “Nutritional classification of microorganisms”. (5)**
 - e. How radiations help in sterilization process? Explain with example. What is HEPA? Define halophilic and alkalophilic bacteria with an example of each type. (2+1+2)**
 - f. How can we classify microorganisms based on their cardinal temperature? (5)**
 - g. What is “serial dilution” technique? Classify bacteria on the basis of shape with suitable example. (2+3)**