

Enrollment No: \_\_\_\_\_

Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Summer Examination-2017

**Subject Name: Applied Microbiology**

**Subject Code: 4LS03MBO2/4SC03AMB1      Branch: B.Sc.(Microbiology)**

**Semester: 3**

**Date: 31/03/2017**

**Time: 10:30 To 01:30**

**Marks: 70**

**Instructions:**

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
- 

- |            |  |             |
|------------|--|-------------|
| <b>Q-1</b> | <b>Attempt the following questions:</b>                                | <b>(14)</b> |
|            | a) Chicken pox is an airborne disease. True/False                      | 1           |
|            | b) Define mutualism.   | 1           |
|            | c) Pasteurization is a type of food preservation technique. True/False | 1           |
|            | d) What is Botulism?   | 1           |
|            | e) Write full form of HEPA.  | 1           |
|            | f) Write any two types of water.                                       | 1           |
|            | g) Malaria is a waterborne borne disease. True/False                   | 1           |
|            | <br>   |             |
|            | h) Define commensalism.  | 1           |
|            | i) Cuscuta is an example of parasitic plant. True/False                | 1           |
|            | j) Diarrhea is an airborne disease. True/False                         | 1           |
|            | k) Alcohol can be used as a sterilizing agent. True/False              | 1           |
|            | l) Write one moist heat sterilization method.                          | 1           |
|            | m) What are facultative anaerobes?                                     | 1           |
|            | n) Yeast is a prokaryotic organism. True/False                         | 1           |

**Attempt any four from Q-2 To Q-8:**

- |            |  |             |
|------------|--|-------------|
| <b>Q-2</b> | <b>Attempt all questions</b>   | <b>(14)</b> |
|            | a) What do you mean by soil microbiology? Explain it with suitable examples. | 7           |
|            | b) Explain food spoilage with suitable example.                              | 7           |
|            | <br>   |             |
| <b>Q-3</b> | <b>Explain the following-</b>  | <b>(14)</b> |
|            | a) Water borne disease (any one).  | 7           |
|            | b) Air pollution.  | 7           |



<b>Q-4</b>	<b>Write short notes on-</b>	<b>(14)</b>
<b>a</b>	Sewage treatment	7
<b>b</b>	Sources of contamination of milk	7
<b>Q-5</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>a</b>	Explain food borne infection with suitable example.	7
<b>b</b>	What do you mean by Biofuels? Explain it with suitable examples.	7
<b>Q-6</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>a</b>	Explain symbiosis with suitable example.	7
<b>b</b>	Explain carbon cycle with proper diagram.	7
<b>Q-7</b>	<b>Write short notes on-</b>	<b>(14)</b>
<b>a</b>	Parasitism	7
<b>b</b>	Types of Pollution	7
<b>Q-8</b>	<b>Explain the following-</b>	<b>(14)</b>
<b>a</b>	Biogeochemical cycles of Nitrogen.	7
<b>b</b>	Role and importance of bioplastics.	7

