

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

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

# C.U.SHAH UNIVERSITY

## Winter Examination-2018

Subject Name : World of Microbes

Subject Code : 4LS01MBO1/4SC01WOM1

Branch: B.Sc. (Microbiology)

Semester : 1

Date : 07/12/2018

Time : 02:30 To 05:30

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.
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- Q-1 Attempt the following questions: (14)**
- a) Bacterial Cell wall is made up of \_\_\_\_\_. (cellulose/chitin/glycogen) (1)
  - b) Define : Resolution. (1)
  - c) What is use of Dark Field Microscopy? (1)
  - d) \_\_\_\_\_ is example of Moist heat Sterilization. (Autoclave/Hot Air Oven) (1)
  - e) Who disapproved spontaneous theory of evolution? (1)
  - f) Define : Microbiology. (1)
  - g) Mycobacterium is stained by acid fast staining. True/False. (1)
  - h) Define : Immunity. (1)
  - i) Breast milk is \_\_\_\_\_ type of Immunity. (Active/Passive) (1)
  - j) Resolution of Electron Microscope is greater than simple Microscope. True/False. (1)
  - k) Define : Vaccination (1)
  - l) State uses of Flagella? (1)
  - m) Fungal cell wall is made up of chitin. True/False. (1)
  - n) What is Endospore? (1)

**Attempt any four questions from Q-2 to Q-8**

- Q-2 Write Short Note On (14)**
- a) Types of Media (7)
  - b) Structure of Bacteria with figure. (7)
- Q-3 Attempt all questions (14)**
- a) Differentiate between Gram Positive and Gram Negative Bacteria. (7)
  - b) Write note on physical methods of Control of Micro-organism. (7)



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| <b>Q-4</b> | <b>Attempt all questions</b>   | <b>(14)</b> |
| a)         | What is staining? Explain Differential staining in detail.               | (7)         |
| b)         | Write note on antimicrobial agents.                                      | (7)         |
| <b>Q-5</b> | <b>Write Short Note On</b>   | <b>(14)</b> |
| a)         | Electron Microscope and its types  | (7)         |
| b)         | Classification of Media.   | (7)         |
| <b>Q-6</b> | <b>Attempt all questions</b>   | <b>(14)</b> |
| a)         | What is Replica Plating Technique? Explain in detail.                    | (7)         |
| b)         | Write about Application and Scope of Microbiology.                       | (7)         |
| <b>Q-7</b> | <b>Attempt all questions</b>   | <b>(14)</b> |
| a)         | Explain in detail about Biological methods of Control of Micro-organism. | (7)         |
| b)         | Explain parts of Compound Microscope with Figure.                        | (7)         |
| <b>Q-8</b> | <b>Write in brief about</b>  | <b>(14)</b> |
| a)         | Cell Wall structure of Bacteria.   | (7)         |
| b)         | Specific Media and its composition and uses.                             | (7)         |

