

C.U.SHAH UNIVERSITY

Summer Examination 2019

Subject Name: Pharmaceutical Microbiology-I

Subject Code: 4PS05PMI1

Branch: B.Pharm

Semester: 5

Date : 12/03/2019

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.
-

- Q-1 Define the following terms (14)**
- a) Spirochetes
 - b) Sanitizer
 - c) Thermal death point
 - d) Cultivation
 - e) Disinfectant.
 - f) Q10- value
 - g) Gram Staining
 - h) Gram +ve Bacteria
 - i) Sterilization
 - j) Eukaryotic cell
 - k) Scanning Electron Microscopy
 - l) Spore staining
 - m) Viable count
 - n) Prokaryotic cell

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

- Q-2 Attempt all questions (14)**
- a. Discuss the Scope of Microbiology (7)
 - b. Classify the microorganisms. Differentiate the bacteria and viruses (7)
- Q-3 Attempt all questions (14)**
- a. Define total counts. Enlist methods for total count and discuss any one (7)
 - b. Describe the structure of virus in detail with a suitable diagram. Discuss methods of cultivation of viruses. (7)
- Q-4 Attempt all questions (14)**
- a. Classify the bacteria based on the temperature and oxygen requirements (7)
 - b. Differentiate between bright field and dark field microscopy (7)
- Q-5 Attempt all questions (14)**
- a. Differentiate between: (i) capsule and spore (ii) Selective and differential media (7)
 - b. Classify the staining techniques. Discuss gram staining method (7)
- Q-6 Attempt all questions (14)**
- a. Enumerate methods for evaluation of disinfectants. Describe Rideal-Walker test (7)
 - b. Write brief note on Ethylene Oxide sterilization (7)



