

# C.U.SHAH UNIVERSITY

## Summer Examination-2019

**Subject Name: Generic Elective-IV (Medical Microbiology & Immunology)**

**Subject Code: 4SC04MMI1**

**Branch: B.Sc. (Microbiology)**

**Semester: 4**

**Date: 26/04/2019**

**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.

- 
- Q-1 Attempt the following questions: (14)**
- a) Give example of any two protozoan diseases. 1
  - b) All immunogens are antigens, but all antigens may not be immunogens. True/ False. 1
  - c) Give example of immune organ.(any two) 1
  - d) Give the function of thymus. 1
  - e) What is the site of maturation of T cell? 1
  - f) Acyclovir is an antifungal agent. True/ False. 1
  - g) Define: Pathogenicity. 1
  - h) Old red blood cells are recycled in the lymph node. True/ False. 1
  - i) Which type of immunoglobulin involved in allergy? 1
  - j) What is the role of stem cell? 1
  - k) Define: Adjuvant. 1
  - l) What is agglutination? 1
  - m) What is the shape of antibody? 1
  - n) Give the full form of ELISA. 1

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

- Q-2 Attempt all questions (14)**
- a) Write a brief note on bone marrow. 7
  - b) Write a detail note on normal flora of skin and gastrointestinal tract. 7
- Q-3 Attempt all questions (14)**
- a) Enlist the type of antibodies. Discuss the structure, properties and function of Immunoglobulin M (Ig M). 7
  - b) Write a detail note on ELISA method. 7
- Q-4 Attempt all questions (14)**
- a) Explain causative agent, symptom, diagnosis, transmission, treatment of any one bacterial disease. 7
  - b) Discuss the characteristics of an antigen. 7



