



**AH-641**

Seat No. \_\_\_\_\_

**B. Sc. (Sem. VI) Examination**

**March - 2019**

**Microbiology : Paper- MI-603**

**(Medical Microbiology)**

Time : 3 Hours ]

[ Total Marks : 70

- 1 (a) Write about causative agent and symptoms of any **two** : **6**
- (1) Malaria and Influenza.
  - (2) Rabies and Chicken pox.
  - (3) Hepatitis and Herpes.
  - (4) Amoebic dysentery and Dengue Fever.
- (b) Discuss the bacterial diseases of any **two** of the following human systems. **12**
- (1) Digestive system.
  - (2) Skin and eyes.
  - (3) Respiratory system.
  - (4) Nervous system.
- 2 (a) Answer any **two** : **6**
- (1) Give name of two bacterial toxins and the producing bacteria.
  - (2) Give two examples each of physical and chemical barriers of non specific host defense.
  - (3) Give two examples (Genus species) of normal flora of gastrointestinal tract.
  - (4) Give two names of pathogens (Genus species) of pathogens that colonize and grow in human host.

- (b) Answer any **two** : 12
- (1) Write a short note on normal flora of human skin.
  - (2) Discuss the entry of pathogen into human host.
  - (3) Write a short note on bacterial endotoxins.
  - (4) Discuss biological barriers of non specific host defense.
- 3 (a) Define or explain any **three** : 6
- (1) Air borne transmission.
  - (2) Pandemic disease.
  - (3) Zoonoses.
  - (4) Herd Immunity.
  - (5) Epidemic disease.
- (b) Discuss any **two** of the following : 12
- (1) Mortality rate.
  - (2) Types of carriers.
  - (3) Antigenic shift.
  - (4) Vector borne transmissions.
- 4 (a) Define or explain any **two** : 4
- (1) Vaccines.
  - (2) Antiserum.
  - (3) Anamnesis.
  - (4) Toxoids.
- (b) Write short notes on any **two** : 12
- (1) Whole organism vaccine.
  - (2) Malaria prophylaxis.
  - (3) Prophylactic use of Immunoglobulins.
  - (4) Purified macromolecules as vaccine.