

## SECOND PROFESSIONAL B.S.M.S. DEGREE EXAMINATION

## PAPER VII – NUNNUYIR IYAL (MICROBIOLOGY)

*Q.P. Code : 601131***Time: Three Hours****Maximum : 100 Marks****I. Elaborate on:** (2 x 15 = 30)

1. Describe detailed notes on sterilization with chemical agents and its mode of action.
2. Discuss about the detailed course of rabies disease in human beings and its diagnosis with treatment.

**II. Write Notes on:** (10 x 5 = 50)

1. Explain about the principle involved in Gram's staining technique.
2. Write the description of Flemming's discovery in microbiology.
3. Discuss about the pathogenic factors of *Vibrio cholerae* and its clinical symptoms.
4. Describe about the bacterial haemolytic pattern with examples.
5. What are the various *invivo* and *invitro* virulence tests performed for *Corynebacterium diphtheriae* infection?
6. Write about brief note on systemic autoimmune diseases.
7. Explain about the mechanism of agglutination and its applications.
8. Describe the pathogenesis of dermatophytosis.
9. Explain about the methods used for viral cultivation.
10. Describe the vaccines in active immunization of bacterial diseases.

**III. Short Answers on:** (10 x 2 = 20)

1. Define resolving power of the microscope.
2. Explain sterilisation.
3. How do cultivate the *Mycobacterium leprae*?
4. Which is the causative agent for gas gangrene?
5. Write about botulinum toxin.
6. Write about WIDAL test.
7. Write about complement system.
8. Explain aspergilloma.
9. Give some examples of antiviral drugs for HIV patients.
10. Examples of UTI causing bacterial pathogens.