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D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1

SEMESTER EXAMINATIONS

NOVEMBER - 2017

16CPZO3C

MICROBIOLOGY AND IMMUNOLOGY

Time: 3 Hrs

Max.Marks : 75

SECTION-A (5x 6 =30)

Answer ALL the questions.

1. (a) Describe the general structural properties of viruses.
(Or)
(b) Enumerate the structure of a fungus in brief.
2. (a) Explain heat as a physical method of sterilization.
(Or)
(b) Describe the aerobic and anaerobic culture techniques of bacteria.
3. (a) What is bioremediation? Explain the biodegradation of hydrocarbons using microbes.
(Or)
(b) Explain the role of microbes in the production of dairy industry.
4. (a) Explain the mechanism of precipitation reaction and its applications in immunology.
(Or)
(b) Describe the ELISA technique. Add a note on its application.
5. (a) Write notes on complement system.
(Or)
(b) Describe the immunology of graft rejection.

SECTION-B (3x15 =45)

Answer any THREE of the following questions.

6. Give an account on the major groups of bacteria. Explain their characteristic features with examples.
7. Write an essay on the different types of staining methods employed in microbiology.
8. Explain in detail the use of microbes in the production of ethanol and vinegar.
9. Give an account on the Major Histocompatibility Complex.
10. What is Hypersensitivity reaction? Explain the immunology of different types of hypersensitivity reactions in man.

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