

**ASSIGNMENT - 1, DEC - 2016.**

**M.Sc. (FINAL) SECOND YEAR DEGREE**

**MICROBIOLOGY**

**PAPER - V : MEDICAL MICROBIOLOGY**

**Maximum : 30 MARKS**

**Answer ALL questions.**

- 1) Complement.
  - 2) Inflammation.
  - 3) Vibrio cholera.
  - 4) Aspergillosis.
  - 5) Describe different types of chemical barriers to infection?
  - 6) Write an essay on significance of normal flora?
  - 7) Explain symptoms, diagnosis and control mycobacterium tuberculosis?
  - 8) Write an essay on systemic mycoses?
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**ASSIGNMENT - 2, DEC - 2016.**

**M.Sc. (FINAL) SECOND YEAR DEGREE**

**MICROBIOLOGY**

**PAPER - V : MEDICAL MICROBIOLOGY**

**Maximum : 30 MARKS**

**Answer ALL questions.**

- 1) Poliomyelitis.
  - 2) Plasmodium.
  - 3) Types of epidemics.
  - 4) Antibiotics.
  - 5) Give a detailed study on onco viruses?
  - 6) Give a detailed study on plasmodium vivax?
  - 7) Write an essay on methods of transmission and control of epidemics?
  - 8) Write an essay on cultural methods of diagnosis of bacterial pathogens?
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MICROBIOLOGY

PAPER - VI : IMMUNOLOGY AND CELLULAR MICROBIOLOGY

Maximum : 30 MARKS

Answer ALL questions.

- 1) T cells.
  - 2) Primary immune organs.
  - 3) RIA.
  - 4) Anaphylaxis.
  - 5) Give a detailed account on Acquired immunities?
  - 6) Describe the structure and function of major histocompatibility complex?
  - 7) Write about structure, types and functions of antibodies?
  - 8) Write about cell mediated hypersensitivity reactions?
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MICROBIOLOGY

PAPER - VI : IMMUNOLOGY AND CELLULAR MICROBIOLOGY

Maximum : 30 MARKS

Answer ALL questions.

- 1) Induced endocytosis.
  - 2) Bacterial adhesions.
  - 3) Signal transduction.
  - 4) Secondary messengers.
  - 5) Write an essay on different types of Secretion systems with reference to *Agrobacterium tumefaciens*?
  - 6) Write about mechanisms of bacterial invasions?
  - 7) Describe cell signalling system?
  - 8) Write about cell-to-cell signalling in prokaryotes?
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PAPER - VII : MICROBIAL GENETICS AND MOLECULAR BIOLOGY

Maximum : 30 MARKS

Answer ALL questions.

- 1) Gene concept.
  - 2) Gene map of T<sub>4</sub> phage.
  - 3) Denaturation of DNA.
  - 4) Triplet code.
  - 5) Write about different types of bacterial plasmids.
  - 6) Explain different theories of gene concept.
  - 7) Write an essay on DNA repair mechanism.
  - 8) DNA replication mechanism in Prokaryotes.
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MICROBIOLOGY

PAPER - VII : MICROBIAL GENETICS AND MOLECULAR BIOLOGY

Maximum : 30 MARKS

Answer ALL questions.

- 1) Prokaryotic translation.
  - 2) Tryptophan operon.
  - 3) Western blotting.
  - 4) Transgenic animals.
  - 5) Write an essay on Operon concept.
  - 6) Write about transcription regulation of gene expression in prokaryotes.
  - 7) Write an essay on application of genetic engineering.
  - 8) Write an essay on different types of vectors used in genetic engineering.
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PAPER - VIII : FOOD AND INDUSTRIAL MICROBIOLOGY

Maximum : 30 MARKS

Answer ALL questions.

- 1) Membrane filtration.
  - 2) Sources of microbial food contamination.
  - 3) Mushroom cultivation.
  - 4) Salmonellosis.
  - 5) Write an essay on food spoilage.
  - 6) Write about different methods of food preservation.
  - 7) Write an essay on food borne infections.
  - 8) Define pasteurization and explain the process of Pasteurization.
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M.Sc. (FINAL) SECOND YEAR DEGREE

MICROBIOLOGY

PAPER - VIII : FOOD AND INDUSTRIAL MICROBIOLOGY

Maximum : 30 MARKS

Answer ALL questions.

- 1) Types of fermenters.
  - 2) Buffers.
  - 3) Liquid-Liquid extraction.
  - 4) Semi continuous culture.
  - 5) Describe the process of screening of microorganisms for the production of commercially important metabolites.
  - 6) Write an essay on component parts of fermentation process.
  - 7) Describe the fermenter design of SSF and its advantages and disadvantages.
  - 8) Describe the process of fermentative production of Glutamic acid.
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