

(DMB21)

ASSIGNMENT - 1

M.Sc. (Second) DEGREE EXAMINATION, MAY – 2019

Second Year

MICROBIOLOGY

Medical Microbiology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

Q1) Significance of normal flora

Q2) Interferons

Q3) Vibrio cholerae

Q4) Sporotrichosis

Q5) Chicken pox

Q6) Influenza

Q7) Acyclovir

Q8) Polymyxin - B

DMB21)

ASSIGNMENT - 2

M.Sc. (Second) DEGREE EXAMINATION, MAY – 2019

Second Year

MICROBIOLOGY

Medical Microbiology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Describe the mechanical barriers to infection.
b) Write an account on Bacterial toxins and their role in Pathogenesis.
- Q2)** a) Describe the symptoms, epidemiology, diagnosis and control of Mycobacterium tuberculosis.
b) Write an account on Systemic mycosis.
- Q3)** a) Describe the detailed study of Plasmodium species.
b) Write an account on Measles.
- Q4)** a) Describe the methods of transmission and control of epidemics.
b) Describe the serological methods of diagnosis of bacterial infections.



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ASSIGNMENT - 1
M.Sc. DEGREE EXAMINATION, MAY – 2019

Second Year

MICROBIOLOGY

Immunology and Cellular Microbiology

MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

- Q1)* B - cells
- Q2)* Macrophages
- Q3)* ELISA
- Q4)* Agglutination
- Q5)* Phagocytosis
- Q6)* Induced endocytosis
- Q7)* Bacterial Pheromones
- Q8)* Signal transduction in chemosynthesis

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ASSIGNMENT - 2
M.Sc. DEGREE EXAMINATION, MAY – 2019

Second Year

MICROBIOLOGY

Immunology and Cellular Microbiology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Describe innate and acquired immunity and their importance.
b) Describe nature, structure and functions of Major histocompatibility.
- Q2)** a) Explain the nature, types and functions of antigens and antibodies.
b) Describe the general account of autoimmune diseases and their control.
- Q3)** a) Write an account on T – complex transfer system in *Agrobacterium tumefaciens*.
b) Describe the toxins acting on protein synthesis.
- Q4)** a) Explain cell signaling systems.
b) Write an account on Apoptosis and induction of apoptosis by Microbes.



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ASSIGNMENT - 1

M.Sc. (Second) DEGREE EXAMINATION, MAY – 2019

Second Year

MICROBIOLOGY

Microbial Genetics and Molecular Biology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)* Plasmids
- Q2)* Gene mapping in Bacteria
- Q3)* Denaturation of DNA
- Q4)* Wobble hypothesis
- Q5)* Operon concept
- Q6)* Trp Operon
- Q7)* IS elements
- Q8)* Mechanism of transposition

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ASSIGNMENT - 2

M.Sc. (Second) DEGREE EXAMINATION, MAY – 2019

Second Year

MICROBIOLOGY

Microbial Genetics and Molecular Biology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Describe DNA as genetic material.
b) Describe genetic recombination in Bacteria.
- Q2)** a) Describe DNA damage and repair mechanisms.
b) Describe various types of Mutations.
- Q3)** a) Describe the gene expression in Prokaryotes.
b) Explain the genetics of Nitrogen fixation.
- Q4)** a) Describe DNA finger printing and its importance.
b) Describe the development of transgenic plants and their significance.



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ASSIGNMENT - 1

M.Sc. (Second) DEGREE EXAMINATION, MAY – 2019

Second Year

MICROBIOLOGY

Food & Industrial Microbiology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)* Dye Reduction test
- Q2)* Membrane filtration technique
- Q3)* Pasteurization of milk
- Q4)* Microbial spoilage of milk
- Q5)* Buffers
- Q6)* Precursors
- Q7)* Characters of solid state fermentation
- Q8)* Crystallisation

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ASSIGNMENT - 2

M.Sc. (Second) DEGREE EXAMINATION, MAY – 2019

Second Year

MICROBIOLOGY

Food & Industrial Microbiology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Describe the microbial spoilage of vegetables and meat.
b) Describe food preservation methods.
- Q2)** a) Write an account on single cell proteins.
b) Describe various types of fermented foods and their importance.
- Q3)** a) Describe various types of fermentors.
b) Describe the methods of strain improvement of industrial microorganisms.
- Q4)** a) Describe the recovery and purification of fermentation products.
b) Describe the fermentative production of enzyme amylase.

