

(DMB 21)

ASSIGNMENT-1

M.Sc. DEGREE EXAMINATION, MAY – 2018

Second Year

MICROBIOLOGY

Medical Microbiology

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** Phagocytosis.
- Q2)** Concept of virulence.
- Q3)** Vibrio cholerae.
- Q4)** Candidiasis.
- Q5)** Oncoviruses.
- Q6)** Chicken pox.
- Q7)** Cephalosporins.

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ASSIGNMENT-2

M.Sc. DEGREE EXAMINATION, MAY – 2018

Second Year

MICROBIOLOGY

Medical Microbiology

MAXIMUM MARKS:30

Answer ALL Questions

Q1) Imidazoles.

Q2) a) Describe the significance of normal flora.

b) Describe the mechanical barriers to infection.

Q3) a) Write an account on the dermatomycoses.

b) Describe the symptoms, epidemiology, diagnosis and control of the disease caused by *Mycobacterium tuberculosis*.

Q4) a) Describe the detailed study of the protozoan disease caused by *Plasmodium* species.

b) Describe the factors responsible for resurgence and emergence of infectious diseases.

Q5) a) Write an account on methods of transmission and control of epidemics in populations.

b) Describe the properties of chemotherapeutic drugs and mode of action.



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ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, MAY – 2018
Second Year
MICROBIOLOGY

Immunology and Cellular Microbiology

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)* Cell mediated immunity.
- Q2)* Cytokines.
- Q3)* ELISA.
- Q4)* Complement fixation.
- Q5)* Phagocytosis.
- Q6)* Zipper mechanism.
- Q7)* Signal transduction in chemotaxis.

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ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, MAY – 2018
Second Year
MICROBIOLOGY

Immunology and Cellular Microbiology

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** Sporulation in *Myxococcus xanthus*.
- Q2)** a) Describe the types of immune responses.
b) Describe the nature, structure and functions of major histocompatibility complex.
- Q3)** a) Write an account on nature, types and functions of antigens and antibodies.
b) Describe the autoimmune disease and their control.
- Q4)** a) Describe the molecular mechanism of adhesion and bacterial adhesion.
b) Describe the bacterial toxins.
- Q5)** a) Describe the cell signaling system.
b) Write an account on Apoptosis.



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ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, MAY – 2018
Second Year
MICROBIOLOGY

Microbial Genetics and Molecular Biology

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)* Significance of plasmids.
- Q2)* Genetic recombination in T4 phage.
- Q3)* Renaturation of DNA.
- Q4)* Triplet code.
- Q5)* Transcription in prokaryotes.
- Q6)* Eukaryotic protein synthesis.
- Q7)* Is elements.

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ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, MAY – 2018
Second Year
MICROBIOLOGY

Microbial Genetics and Molecular Biology

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** Concept of rDNA technology.
- Q2)** a) Describe the different theories of gene concept.
b) Describe the genetic recombination in Bacteria.
- Q3)** a) Describe the DNA damage and repair.
b) Describe the types of mutations.
- Q4)** a) Describe the Operon concept.
b) Write an account on the regulation of gene expression.
- Q5)** a) Describe PCR and its applications.
b) Describe the applications of genetic engineering.



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ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, MAY – 2018
Second Year
MICROBIOLOGY

Food & Industrial Microbiology

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)* Most Probable Number Method.
- Q2)* Electrical impedance method.
- Q3)* Single Cell Protein.
- Q4)* Mushroom cultivation.
- Q5)* Antifoams.
- Q6)* Components of fermentation media.
- Q7)* Crystallisation.

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ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, MAY – 2018
Second Year
MICROBIOLOGY

Food & Industrial Microbiology

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** Liquid – liquid extraction.
- Q2)** a) Describe the causes of food spoilage and microbial spoilage of vegetables.
b) Describe the food preservation methods.
- Q3)** a) Write an account on fermented foods.
b) Describe food poisoning and food borne infections.
- Q4)** a) Describe the types of fermentors and their applications.
b) Write an account on screening of microorganisms for the production of commercially important metabolites.
- Q5)** a) Describe the types of culture systems.
b) Write an account on fermentative production of amino acids.

