

(DMB21)

ASSIGNMENT-1

M.Sc. (Second) DEGREE EXAMINATION, DEC. – 2017

Second Year

MICRO BIOLOGY

Medical Microbiology

MAXIMUM MARKS:30

Answer ALL Questions

Q1) Normal flora of oral cavity

Q2) Chemical barriers to infection

Q3) Treponema pallidum

Q4) Candidiasis

Q5) Mumps

Q6) Poliomyelitis

Q7) Polymyxin - B

Q8) Flucytocin

(DMB21)

ASSIGNMENT-2

M.Sc. (Second) DEGREE EXAMINATION, DEC. – 2017

Second Year

MICRO BIOLOGY

Medical Microbiology

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** a. Describe the biological barriers to infection.
b. Enumerate the concept of virulence, invasive factors and virulence of pathogens.
- Q2)** a. Describe the pathogenesis, symptoms, epidemiology, diagnosis and control of the disease caused by *Corynebacterium diphtheriae*.
b. Write an account on systemic mycosis.
- Q3)** a. Describe the diseases caused by AIDS.
b. Write an account on the protozoa diseases caused by *Plasmodium* species.
- Q4)** a. Write an account on the types of epidemics and disease reservoirs.
b. Describe the development of chemotherapy and properties of chemotherapeutic drugs.



(DMB22)

ASSIGNMENT-1

M.Sc. (Second) DEGREE EXAMINATION, DEC. – 2017

Second Year

MICROBIOLOGY

Immunology and Cellular Microbiology

MAXIMUM MARKS:30

Answer ALL Questions

Q1) Myeloid cells

Q2) Lymphokines

Q3) RIA

Q4) Agglutination

Q5) Phagocytosis

Q6) Pore forming toxins

Q7) Sporulation in *Myxococcus xanthus*

Q8) Cytokine signalling

(DMB22)

ASSIGNMENT-2

M.Sc. (Second) DEGREE EXAMINATION, DEC. – 2017

Second Year

MICROBIOLOGY

Immunology and Cellular Microbiology

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** a. Describe Humoral and cell – mediated immunity.
b. Describe the structure and functions of primary lymphoid organs.
- Q2)** a. Describe the nature, types and functions of antibodies.
b. Write an account on autoimmune diseases and their control.
- Q3)** a. Describe the molecular mechanism of adhesion and bacterial adhesions.
b. Write an account on the mechanism of bacterial invasion
- Q4)** a. Write an account on the prokaryotic cell to cell signalling.
b. Describe the induction of apoptosis by microbes.



(DMB23)

ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, DEC. - 2017

Second Year
MICROBIOLOGY

Microbial Genetics and Molecular Biology

MAXIMUM MARKS:30

Answer ALL Questions

Q1) Recon

Q2) Ti-plasmid

Q3) SOS repair

Q4) Acridines

Q5) Operon concept

Q6) nif-genes

Q7) IS elements

Q8) DNA fingerprinting

(DMB23)

ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, DEC. - 2017

Second Year
MICROBIOLOGY

Microbial Genetics and Molecular Biology

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** a. Describe the different theories of gene concept.
b. Describe the genetic recombination in Bacteria.
- Q2)** a. Describe the types of DNA damages.
b. Write an account on the types of mutations.
- Q3)** a. Describe transcription and translation in prokaryotes.
b. Write an account on nod genes and their regulation in Rhizobium.
- Q4)** a. Write an account on the concept of r-DNA technology.
b. Describe the applications of genetic engineering.



(DMB24)

ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, DEC. - 2017

(Second Year)

MICROBIOLOGY

Food & Industrial Microbiology

MAXIMUM MARKS:30

Answer ALL Questions

Q1) Dye reduction test.

Q2) ATP photometry

Q3) Sauerkraut

Q4) Botulism

Q5) Chelators

Q6) Antifoams

Q7) Fed batch culture

Q8) Characteristics of SSF

(DMB24)

ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, DEC. - 2017

(Second Year)

MICROBIOLOGY

Food & Industrial Microbiology

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** a. Describe the sources of microbial contaminations of foods.
b. Describe the methods of food preservations.
- Q2)** a. Write an account on Single Cell Proteins.
b. Write an account Cheddar cheese and Wine.
- Q3)** a. Describe fermentation processes.
b. Write an account on strain improvement of industrial microorganisms.
- Q4)** a. Write an account on Recovery and purification of fermentation products.
b. Describe the economic aspects of fermentation.

