DMB21

ASSIGNMENT 1
M.Sc. DEGREE EXAMINATION, MAY - 2020
(Second Year)
MICROBIOLOGY
Medical Microbiology

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

Q1) Normal flora of oral cavity.

Q2) Flora of urogenital tract.

Q3) Vibrio cholerae.

Q4) Candidiasis.

Q5) Influenza.

Q6) Chicken pox.

Q7) Nystatin.

Q8) Imidazoles.

DMB21

ASSIGNMENT 2
M.Sc. DEGREE EXAMINATION, MAY - 2020
(Second Year)
MICROBIOLOGY
Medical Microbiology

MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

Q1) a) Describe the biological barriers to infection.

b) Write an account on phagocytic cells and phagocytosis.

Q2) a) Describe the symptoms, epidemiology, diagnosis and control methods of the disease caused by Mycobacterium tuberculosis.

b) Write an account on systematic mycoses.

Q3) a) Write an account on the viral disease caused by Measles.

b) Describe the protozoan disease caused by Entamoeba histolytica.

Q4) a) Describe the development of chemotherapy and properties of chemotherapeutic drugs.

b) Describe the serological methods of diagnosis of bacterial infections.

DMB22

ASSIGNMENT 1
M.Sc. DEGREE EXAMINATION, MAY - 2020

(Second Year)

MICROBIOLOGY

Immunology and Celluar Microbiology

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

Q1) Eosinophiles.

Q2) Basophiles.

Q3) RIA.

Q4) Autoimmune diseases.

Q5) Phagocytosis.

Q6) Endocytosis.

Q7) Triggering.

Q8) Effector molecules of apoptosis.

DMB22

ASSIGNMENT 2
M.Sc. DEGREE EXAMINATION, MAY - 2020
(Second Year)
MICROBIOLOGY
Immunology and Celluar Microbiology

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

Q1) a) Write an account on Humoral and cell mediated immunity.

b) Describe the nature, structure and functions of primary lymphoid organs.

Q2) a) Describe the nature, types and functions of antigens and antibodies.

b) Write an account on the types of hyper sensitivity reactions.

Q3) a) Describe the mechanism of bacterial invasion.

b) Describe the types of secretion systems and secretion apparatus.

Q4) a) Describe the cell signalling system.

b) Describe the endocrine hormone signalling.

DMB23

ASSIGNMENT 1

M.Sc. DEGREE EXAMINATION, MAY - 2020

(Second Year)

MICRO-BIOLOGY

Microbial Genetics and Molecular Biology

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

Q1) Cistron.

Q2) Intron.

Q3) Triplet code.

Q4) Wobble hypothesis.

Q5) Transcription in prokaryotes.

Q6) Trp operon.

Q7) IS elements.

Q8) Composite transposons.

DMB23

ASSIGNMENT 2

M.Sc. DEGREE EXAMINATION, MAY - 2020

(Second Year)

MICRO-BIOLOGY

Microbial Genetics and Molecular Biology

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

Q1) a) Write an account on plasmids including their significance.

b) Describe the genome organisation and map of T4 phage.

Q2) a) Describe the Renaturation and Denaturation of DNA.

b) Write an account on the types of mutations.

Q3) a) Describe the regulation of gene expression..

b) Describe the nod genes and their regulation in Rhizobium.

Q4) a) Describe the principle, methodology and applications of PCR.

b) Write an account on transgenic plants.

DMB24

ASSIGNMENT 1

M.Sc. DEGREE EXAMINATION, MAY - 2020

(Second Year)

MICRO-BIOLOGY

Food & Industrial Microbiology

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

Q1) Dye reduction test.

Q2) ATP photometry.

Q3) Quality testing of milk.

Q4) Microbial spoilage of milk.

Q5) Design of fermenter.

Q6) Aeration and agitation.

Q7) Cell disruption.

Q8) Crystallisation.

DMB24

ASSIGNMENT 2

M.Sc. DEGREE EXAMINATION, MAY - 2020

(Second Year)

MICRO-BIOLOGY

Food & Industrial Microbiology

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

Q1) a) Describe the causes of food spoilage and microbial spoilage of vegetables.

b) Write an account on the food preservation methods.

Q2) a) Describe the fermentation production of Vinegar and Cheddar cheese.

b) Write an account on Single Cell Proteins.

Q3) a) Describe the components of fermentation media.

b) Describe the methods of strain improvement of industrial microorganisms.

Q4) a) Describe the economic aspects of fermentations.

b) Write an account on fermentation production of antibiotics.