

DMB01

ASSIGNMENT 1
M.Sc. DEGREE EXAMINATION, MAY - 2020
(First Year)
MICRO-BIOLOGY
Introduction Microorganisms

MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

- Q1)* Robert Koch.
- Q2)* Germ theory of fermentation.
- Q3)* Archaeobacteria.
- Q4)* Cyanobacteria.
- Q5)* Viroids.
- Q6)* TMV.
- Q7)* Protozoa reproduction.
- Q8)* Morphology of Protozoa.

DMB01

ASSIGNMENT 2
M.Sc. DEGREE EXAMINATION, MAY - 2020
(First Year)

MICRO-BIOLOGY
Introduction Microorganisms

MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

- Q1)** a) Enumerate the historical development of Microbiology.
b) Describe the comparison between prokaryotic and eukaryotic organisms.
- Q2)** a) Explain the principles of bacterial taxonomy.
b) Write an account on the latest classification of Bacteria given by Bergy's.
- Q3)** a) Describe the morphology and chemistry of Viruses.
b) Describe the methods of transmission of Viruses.
- Q4)** a) Write an account on the economic importance of Microalgae.
b) Describe the reproduction in Fungi.



DMB02

ASSIGNMENT 1
M.Sc. DEGREE EXAMINATION, MAY - 2020
(First Year)

MICROBIOLOGY
Microbiological Methods

MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

- Q1)* Differential staining.
- Q2)* Composition of media.
- Q3)* Contact slide technique.
- Q4)* Serial dilution.
- Q5)* TLC
- Q6)* Precipitation.
- Q7)* Isoelectric focussing.
- Q8)* GM counter.

DMB02

ASSIGNMENT 2
M.Sc. DEGREE EXAMINATION, MAY - 2020
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MICROBIOLOGY
Microbiological Methods

MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

- Q1)** a) Describe the principle, methodology and applications of Dark field Microscopy.
b) Explain the principle, methodology and applications of TEM.
- Q2)** a) Describe the maintenance and preservation of microbial cultures.
b) Describe the methods of isolation of bacteria.
- Q3)** a) Describe the methods of cultivation of viruses.
b) Describe the principle, methodology and applications of HPLC.
- Q4)** a) Write an account on detection and measurement of radio activity.
b) Describe the principle, methodology and applications of UV-VIS Spectroscopy.



DMB03

ASSIGNMENT 1
M.Sc. DEGREE EXAMINATION, MAY - 2020
(First Year)

MICROBIOLOGY

Microbial Physiology and Biochemistry

MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

- Q1)* Facilitated diffusion.
- Q2)* Passive transport.
- Q3)* Oxygenic photosynthesis.
- Q4)* Heterotrophs.
- Q5)* Reduction potential.
- Q6)* ED pathway.
- Q7)* Classification of enzymes.
- Q8)* Nucleotides.

DMB03

ASSIGNMENT 2
M.Sc. DEGREE EXAMINATION, MAY - 2020
(First Year)

MICROBIOLOGY

Microbial Physiology and Biochemistry

MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

- Q1)** a) Describe the factors affecting the growth of bacteria.
b) Explain the different types of cultures of bacteria.
- Q2)** a) Describe the photosynthesis in Cyanobacteria.
b) Describe hydrogen oxydizers and nitrate oxidizers.
- Q3)** a) Describe electron transport chain in bacteris.
b) Discribe the lactic acid fermentation.
- Q4)** a) Write an account on the mechanism of enzyme activation.
b) Describe the structure and functions of purines and pyaramidines.



DMB04

ASSIGNMENT 1
M.Sc. DEGREE EXAMINATION, MAY - 2020
(First Year)
MICRO-BIOLOGY
Environmental and Agricultural Microbiology

MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

- Q1)* Microorganisms in water bodies.
- Q2)* Coliform test for water quality.
- Q3)* Transformation of nitrogen.
- Q4)* Components of soil.
- Q5)* Soil microorganisms.
- Q6)* Utilization of Cyanobacteria.
- Q7)* Concept of disease in plants.
- Q8)* Late Blight of Potato.

DMB04

ASSIGNMENT 2
M.Sc. DEGREE EXAMINATION, MAY - 2020
(First Year)
MICRO-BIOLOGY
Environmental and Agricultural Microbiology

MAXIMUM MARKS :30
ANSWER ALL QUESTIONS

- Q1)** a) Describe the seasonal and diurnal periodicities of air spora.
b) Describe the sewage treatment.
- Q2)** a) Describe the soil organic matter decomposition.
b) Write an account on the methods of isolation of soil microflora.
- Q3)** a) Write an account on VAM fungi.
b) Describe the structure and functions of legume root nodules.
- Q4)** a) Describe the symptoms, etiology, epidemiology and control of Blast of Rice.
b) Describe the development of disease resistant plants.

