

Barkatullah University (Openbook) ATKT Examination  
December 2020

M.Sc Semester - III MICROBIOLOGY

Paper - I - MB - 301 Immunology and  
Immunodiagnostic

M.M. = 85 = 17 x 5

Note: All 5 questions are compulsory.

- Q1. Discuss infection cycle and Methods for its control.
  - Q2. Write an essay on cells of immune system and their property.
  - Q3. Describe with examples any 3 antigen antibody reaction.
  - Q4. Write a long note on immunodeficiency diseases.
  - Q5. Write an essay on hypersensitivity.
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M.Sc Semester - III - MICROBIOLOGY

Paper - II - MB - 302 - Environmental Microbiology

M.M. = 85 (17x5)

Note: All 5 questions are Compulsory.

- Q1. Discuss with examples air microflora and its link with diseases.
  - Q2. Describe with diagrams different type of sewage treatment.
  - Q3. Write an essay on microbial degradation of hydrocarbons.
  - Q4. Discuss with examples biofuels and its uses.
  - Q5. Write a long note on microbial toxins.
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M.Sc III Semester - MICROBIOLOGY

Paper - III - MB - 303 - Agriculture Microbiology

M.M. = 85 (17x5)

Note: All 5 questions are Compulsory.

- Q1. Discuss rhizosphere microflora and its application in agriculture.
  - Q2. Explain with diagrams and examples Viral diseases of plants.
  - Q3. Write an essay on IPM (integrated pest management).
  - Q4. Explain Mycotoxin and their effect on human Health.
  - Q5. Discuss mycostrigga and its application.
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M.Sc III Semester - MICROBIOLOGY

Paper - IV - MB - 304 - Medical Microbiology  
and Parasitology

M.M. = 85 (17x5)

Note: All 5 questions are Compulsory.

- Q1. Discuss normal microflora of humans and its role in human health.
  - Q2. Explain laboratory detection and treatment of *Mycobacterium leprae*.
  - Q3. Explain laboratory diagnosis of Common fungal infection.
  - Q4. Describe clinical symptoms, and laboratory diagnosis of Polio disease.
  - Q5. Write a long Note on helminthic diseases and their treatment.
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