

(DBT01)

ASSIGNMENT - 1
P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2019

BIO-TECHNOLOGY

Microbiology and Immunology
MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

- Q1)* Describe the morphology and ultra structure of Fungi.
- Q2)* Describe the general features of Photosynthetic Yeasts.
- Q3)* Describe the methods of sterilization.
- Q4)* Write an account on nutritional requirements of Bacteria.
- Q5)* Explain the metabolism of Photosynthetic bacteria.

(DBT01)

ASSIGNMENT - 2
P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2019

BIO-TECHNOLOGY

Microbiology and Immunology
MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

- Q1)* Describe the regulation of nitrogenase and nif-genes.
- Q2)* Write an account on the structure of antigen and antibody.
- Q3)* Describe the role of microorganisms in carbon cycle.
- Q4)* Describe the Hypersensitivity and its effects.
- Q5)* Write an account on Autoimmunity.



(DBT02)

ASSIGNMENT - 1
P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2019
BIO-TECHNOLOGY

Biochemistry and Molecular Biology

MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

- Q1)* Describe Gluconeogenesis and its significance.
- Q2)* Write an account on electron transport system.
- Q3)* Describe the Protein metabolism.
- Q4)* Write an account on the biosynthesis of purines and their catabolism.
- Q5)* Describe the structure and functions of amino acids.

(DBT02)

ASSIGNMENT - 2
P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2019
BIO-TECHNOLOGY

Biochemistry and Molecular Biology

MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

- Q1)* Describe the structure and functions of nucleic acids.
- Q2)* Write an account on the post transcriptional modifications.
- Q3)* Describe DNA as genetic material.
- Q4)* Describe the regulation of gene expression.
- Q5)* Write an account on Mutations.



(DBT03)

ASSIGNMENT - 1
P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2019
BIO-TECHNOLOGY

Plant and Animal Tissue Culture and Genetic Engineering

MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

- Q1)* Describe the media preparation and sterilization.
- Q2)* Write an account on Berguman's plating technique.
- Q3)* Explain cellular totipotency and meristem culture.
- Q4)* Write an account on the production of haploids.
- Q5)* Describe the techniques and types of mammalian cell cultures.

(DBT03)

ASSIGNMENT - 2
P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2019
BIO-TECHNOLOGY

Plant and Animal Tissue Culture and Genetic Engineering

MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

- Q1)* Describe the biology of cells in culture.
- Q2)* Write an account on the cell growth and cell transformation.
- Q3)* Describe stem cell culture and its applications.
- Q4)* Describe the methods of identification and expression of cloned genes.
- Q5)* Write an account on enzymes used in genetic engineering.



(DBT04)

ASSIGNMENT - 1
P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2019
BIO-TECHNOLOGY
Applications of Biotechnology
MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

- Q1)* Describe isolation and preservation of microorganisms.
- Q2)* Explain maintenance and improvement of industrially important microbes.
- Q3)* Describe the methods of immobilization of enzymes.
- Q4)* Write an account on the production of amino acids.
- Q5)* Describe the production of penicillin and its uses.

(DBT04)

ASSIGNMENT - 2
P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2019
BIO-TECHNOLOGY
Applications of Biotechnology
MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

- Q1)* Describe the production of cephalosporin and its applications.
- Q2)* Describe the production of citric acid.
- Q3)* Describe production of acetone.
- Q4)* Write an account on transgenic plants.
- Q5)* Explain the production of somatostatin through genetically engineered microbes.

