

(DBT01)

ASSIGNMENT-1

P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2018

BIO-TECHNOLOGY

Microbiology and Immunology

MAXIMUM MARKS:30

Answer ALL Questions

Q1) Describe the ultra-structure and morphology of Bacteria.

Q2) Describe the general characters of Yeasts and Archaeobacteria.

Q3) Explain the growth and growth kinetics of Bacteria.

Q4) Describe the methods of sterilization.

Q5) Write an account on pure culture techniques.

(DBT01)

ASSIGNMENT-2

P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2018

BIO-TECHNOLOGY

Microbiology and Immunology

MAXIMUM MARKS:30

Answer ALL Questions

Q1) Describe the metabolism in heterotrophic Bacteria.

Q2) Describe the antigen and antibody reactions.

Q3) Enumerate the types of immunity.

Q4) Describe the production of Vaccines.

Q5) Write an account on Autoimmunity.



(DBT02)

ASSIGNMENT-1

P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2018

BIO-TECHNOLOGY

Biochemistry and Molecular Biology

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** Describe the structure and functions of Amino acids.
- Q2)** Write an account on the structure and functions Nucleic acids.
- Q3)** Explain the fatty acid metabolism.
- Q4)** Describe the Cholesterol metabolism.
- Q5)** Write an account on amino-acid metabolism.

(DBT02)

ASSIGNMENT-2
P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2018
BIO-TECHNOLOGY
Biochemistry and Molecular Biology

MAXIMUM MARKS:30
Answer ALL Questions

- Q1)* Describe the biosynthesis of Pyrimidines.
- Q2)* Describe the replication of DNA.
- Q3)* Describe Watson and Crick model of DNA.
- Q4)* Explain the regulation of gene expression.
- Q5)* Write an account on Genetic code and translation.



(DBT03)

ASSIGNMENT-1

P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2018

BIO-TECHNOLOGY

Plant and Animal Tissue Culture and Genetic Engg.

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)* Describe the media preparation and sterilization.
- Q2)* Write an account on Bergman's plating technique.
- Q3)* Explain the cellular totipotency.
- Q4)* Describe the production of haploids.
- Q5)* Write an account on the biology of cells in culture.

(DBT03)

ASSIGNMENT-2

P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2018

BIO-TECHNOLOGY

Plant and Animal Tissue Culture and Genetic Engg.

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)* Describe the types of mammalian cell cultures.
- Q2)* Describe the cell growth and cell transformation.
- Q3)* Describe stem cell culture and its applications.
- Q4)* Describe the enzymes used in genetic engineering.
- Q5)* Write an account on expression of cloned genes and gene therapy.



(DBT04)

ASSIGNMENT-1

P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2018

BIO-TECHNOLOGY

Applications of Biotechnology

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** Describe the methods of isolation and improvement of industrially important microbes.
- Q2)** Write an account on methods of preservation of important microbes.
- Q3)** Describe fermentative production of gluconic acid.
- Q4)** Describe the production of acetone.
- Q5)** Write an account on Biosensors and their applications in biotechnology.

(DBT04)

ASSIGNMENT-2

P.G. DIPLOMA DEGREE EXAMINATION, MAY – 2018

BIO-TECHNOLOGY

Applications of Biotechnology

MAXIMUM MARKS:30

Answer ALL Questions

Q1) Describe the brewing of enzymes.

Q2) Describe the production of tetracycline and its application.

Q3) Describe the production of Cephalosporin and its applications.

Q4) Describe the production of Somatostatin and its uses.

Q5) Write an account on transgenic animals.

