

(DBT01)

ASSIGNMENT -1
P.G. DIPLOMA DEGREE EXAMINATION, DEC. – 2017
BIO-TECHNOLOGY
Microbiology And Immunology
MAXIMUM MARKS-30
ANSWER ALL QUESTIONS

- Q1)* Describe the morphology and ultra structure of Viruses.
- Q2)* Describe the general features of Archaeobacteria.
- Q3)* Explain the growth and growth kinetics of Bacteria.
- Q4)* Describe gene transfer mechanisms.
- Q5)* Describe the metabolism in phototrophic Bacteria.

(DBT01)

ASSIGNMENT -2
P.G. DIPLOMA DEGREE EXAMINATION, DEC. – 2017
BIO-TECHNOLOGY
Microbiology And Immunology
MAXIMUM MARKS-30
ANSWER ALL QUESTIONS

- Q1)* Explain the regulation of Nitrogenase and nif-gene.
- Q2)* Write an account on the types of immunity.
- Q3)* Describe the structure and functions of antibodies.
- Q4)* Write an account on complement system.
- Q5)* Describe the production of monoclonal antibodies.



(DBT02)

ASSIGNMENT 1
PG DIPLOMA DEGREE EXAMINATION, DEC. - 2017
BIO-TECHNOLOGY
Biochemistry and Molecular Biology
MAXIMUM MARKS-30
ANSWER ALL QUESTIONS

- Q1)* Describe the structure and functions of Nucleic acids .
- Q2)* Write an account on Vitamins.
- Q3)* Describe the Metabolism of cholesterol.
- Q4)* Explain electron transport system.
- Q5)* Describe the biosynthesis of Pyrimidines.

(DBT02)

ASSIGNMENT -2
PG DIPLOMA DEGREE EXAMINATION, DEC. - 2017
BIO-TECHNOLOGY
Biochemistry and Molecular Biology
MAXIMUM MARKS-30
ANSWER ALL QUESTIONS

- Q1)* Write an account on Protein metabolism.
- Q2)* Describe DNA as hereditary material.
- Q3)* Describe the Post-transcriptional modifications .
- Q4)* Write an account on Mutations.
- Q5)* Describe the regulation of gene expression.



(DBT03)

ASSIGNMENT -1
PG DIPLOMA DEGREE EXAMINATION, DEC. – 2017
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)* Describe the production of haploids.
- Q4)* Explain Clonal propagation.
- Q5)* Describe the basic techniques and types of Mammalian cell cultures.

(DBT03)

ASSIGNMENT -2
PG DIPLOMA DEGREE EXAMINATION, DEC. – 2017
BIO- TECHNOLOGY
Plant And Animal Tissue Culture And Genetic Engg.
MAXIMUM MARKS-30
ANSWER ALL QUESTIONS

- Q1)* Write an account on the biology of cells in cultures.
- Q2)* Describe Invitro-fertilization and embryo transfer.
- Q3)* Write an account on stem cell culture and its applications.
- Q4)* Write an account gene therapy.
- Q5)* Describe the enzymes used in genetic engineering.



(DBT04)

ASSIGNMENT -1
PG DIPLOMA DEGREE EXAMINATION, DEC. – 2017
BIO-TECHNOLOGY
Applications of Biotechnology
MAXIMUM MARKS-30
ANSWER ALL QUESTIONS

- Q1)* Write an account on the methods of preservation of industrially important microbes.
- Q2)* Describe the methods of improvement of industrially important microbes.
- Q3)* Describe the fermentative production of Citric acid.
- Q4)* Write an account on the production of Butanol.
- Q5)* Describe how the vitamins are immobilized.

(DBT04)

ASSIGNMENT -2
PG DIPLOMA DEGREE EXAMINATION, DEC. – 2017
BIO-TECHNOLOGY
Applications of Biotechnology
MAXIMUM MARKS-30
ANSWER ALL QUESTIONS

- Q1)* Write an account on brewing of amino acids.
- Q2)* Describe the production of Streptomycin .
- Q3)* Write an account on the applications of Antibiotics.
- Q4)* Write an account on the production of transgenic animals and their applications in medicine .
- Q5)* Describe the production of Insulin through genetically engineered microbes.

