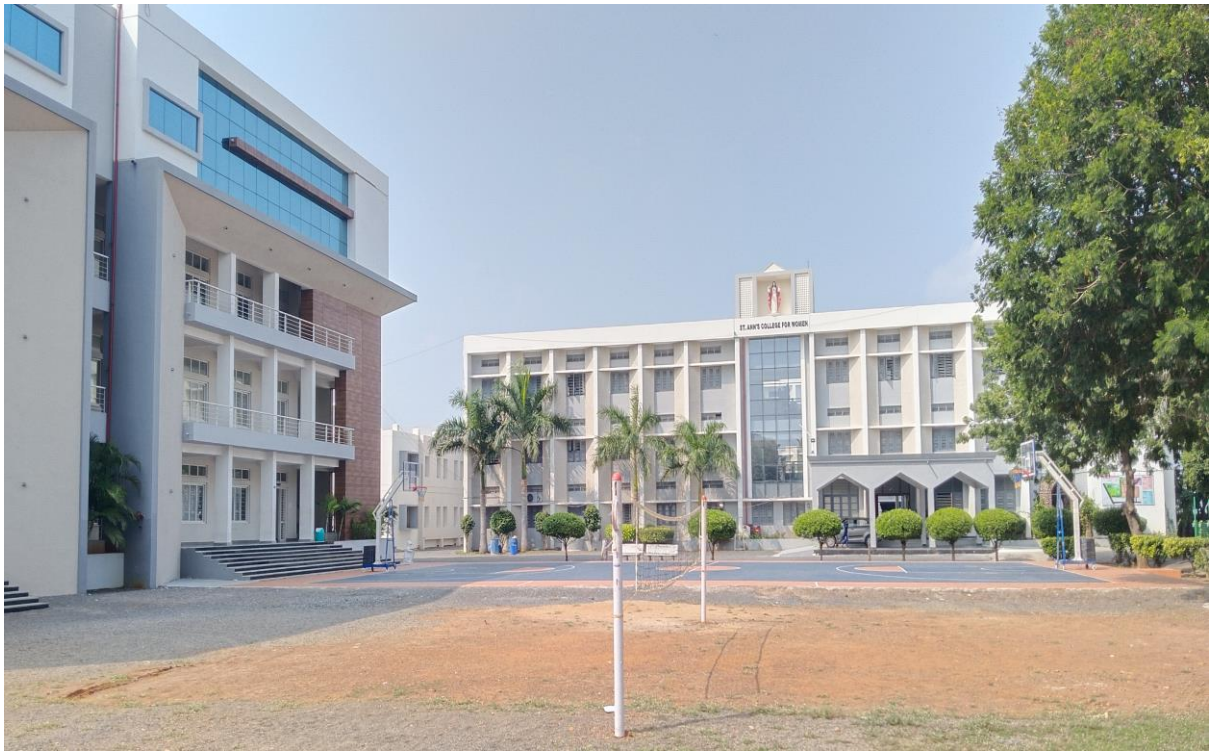

2.5.1

INTERNAL EXAMINATION QUESTION PAPERS

ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR -35.

MID TERM EXAMINATIONS- DECEMBER-2023

PAPER-VI – FOOD,AGRICULTURE & ENVIORNMENTAL MICROBIOLOGY

MICROBIOLOGY- SEMESTER- V

TIME : : 1Hr
Date: 19-12-2023 MAX MARKS :15

Answer any THREE of the following : (3x5=15M)

1.Give an account on Plant Microbe interactions?

2. Writ about the Biogas production?

3.Write about the Methods of Solid waste Disposal?

4. Write about the Liquid waste Management of Primary, Secondary, Tertiary treatment?

5. Write the steps of Nitrogen cycle?

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MID TERM EXAMINATIONS- DECEMBER-2023

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GORANTLA, GUNTUR -35.
II-MID TERM EXAMINATIONS- DECEMBER-2023
PAPER-VII –MUSHROOM CULTIVATION
BOTANY - SEMESTER- V

TIME : : 1Hr
Date: 18-12-2023 MAX MARKS :15M

Answer any THREE of the following : (3x5=15M)

1. Give a brief account on pasteursation?
2. Give an account of isolation techniques for getting pure culture and their maintance?
3. What is casing? Why is casing necessary?
4. Write note on post harvest handling of fresh paddy straw mushroom?
5. What are the major diseases of mushrooms?

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GORANTLA, GUNTUR -35.
II-MID TERM EXAMINATIONS- DECEMBER-2023
PAPER-VII –MUSHROOM CULTIVATION
BOTANY - SEMESTER- V

TIME : : 1Hr
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ST.ANN'S COLLEGE FOR WOMEN
Gorantla, Guntur
DEPARTMENT OF BOTANY
Pre final examinations 2022
Cell biology, genetics and plant breeding

Time : 2 Hrs. Max. Marks : 50

Section _A (5x2=10M)

Answer any **FIVE** of the following :

1. What is karyotype, idiogram
2. What is euchromatin and heterochromatic
3. Mutations
4. Backcross, testcross
5. Complementary genes

Section_B (2X5=10M)

Answer any **FIVE** of the following :

6. Linkage
7. Crossing over
8. Transcription

Section- C (3 X 10 = 30)

Answer any **FIVE** of the following :

9. Explain how variations are brought in the structure of the chromosome
10. Give an account an genetic code
11. Cue an account on gene interaction
12. Explain the role of somaclonal variations in crop improvement
13. Give an account and regulation of gene expression

Dr. S. Fatima Rani P
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MID TERM EXAMINATIONS- MARCH-2022

PAPER-III –Medical Microbiology & Immunology

MICROBIOLOGY- SEMESTER- III

TIME : : 3 Hrs MAX MARKS ::75

SECTION – A

Answer any **FIVE** of the following: **(5x5=25M)**

1. Invasion
2. yeast
3. Filaria
4. Antibacterial Drug
5. Spleen
6. B-Lymphocytes
7. Haptens
8. Type-I Hypersensitivity

SECTION – B **(5x 10=50M)**

Answer the following :

9. a) Explain the Normal Flora of Human Body?
   (or)
   b) Write an account on the general methods of Laboratory Diagnosis?
10. a) Describe the bacterial diseases for example Tuberculosis?
   (or)
   b) Write an account on Viral diseases such as Hepatitis A & C?
11. a) Explain the Nomenclature, types & classification of Interferons?
   (or)
   b) Write an account on passive & Acquired Immunity?.
12. a) Describe the Structure, Types & properties of Immunoglobulins?
   (or)
   b) Describe the Cells of Immune system?
13. a) Write About Nosocomial infection?
   (or)
   b) Write an account on Polyclonal & monoclonal antibodies ?

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MID TERM EXAMINATIONS- MARCH-2022

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ST.ANN'S COLLEGE FOR WOMEN

GORANTLA,GUNTUR-35.

DEPARTMENT OF PHYSICS

II SEM / I MID EXAMINATIONS – OCTOBER-2021

PAPER : WAVEOPTICS / I B.SC (MPC&MPCS)

TIME : 2HRS **MAX.MARKS:50M**

SECTION – A

Answer ALL the questions **(3X10=30M)**

1(a).Describe an experimental arrangement for calculating wavelength of light using Lloyds Single Mirror?

(OR)

(b).Describe Newton rings experiment and Explain how to measure wavelength of Light?

2(a).Describe the construction and working of Nicola prism. Explain how Nicola prism used as polarizer and analyzer?

(OR)

(b).Describe the construction and working of Laurent's half-shade polar meter. Explain how you would use it to determine the specific rotation of sugar solution?

3(a).What is meant by spherical aberration? Explain how we minimize the spherical aberration?

(OR)

(b).What is Chromatic aberration? Give the expression for how we minimize the chromatic aberration using combination of two lenses?

SECTION - B

Answer any FOUR of the following **(4x5=20M)**

4.Describe Interference by a film with two Non reflecting Wedge Shaped Film?

5.What are the Conditions for interference of Light and Explain Colours of Thin films?

5.Explain how Astigmatism and COMA Formed?

6.Derive Brewster's law and Mauls law?

7.Give a brief note on Half Wave Plate and Quarter Wave Plate?

8.Explain Double refraction with necessary theory?

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GORANTLA,GUNTUR-35.

DEPARTMENT OF PHYSICS

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I - MID TERM EXAMINATIONS MARCH-2021

MB-I – INTRODUCTORY MICROBIOLOGY

MICRIBIOLOGY - SEMESTER- I,

TIME : : 2 Hrs MAX MARKS :: 50 M

SECTION – A(4x5=20M)

Answer any **FOUR** of the following :

1. Contributions of Louis pasteur
2. Morphology of Bacteria
3. Whittaker's 5 kingdom concept
4. Contributions of Antony von Leuwenhoek
5. HIV
6. General charecteristics of Archeabacteria

SECTION – B(3x10=30M)

Answer any **THREE** of the following :

7Write an important & applications of Microbiology?

8.Describr the characteristics of Archeabacteria?

9.Describe the Ultrastructure of Prokaryotic cell ?

10.Explian the General charecteristics of viruses?

11.Explain the structure & replication of TMV ?

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I - MID TERM EXAMINATIONS DEC-2020

BOT-III CELL BIOLOGY,GENETICS & PLANT BREEDING

BOTANY -SEMESTER- V, Paper -V

TIME : : 2 Hrs MAX MARKS :: 50 M

SECTION – A(4x5=20M)

Answer any **FOUR** of the following :

1. Cell Theory
2. Nucleosome model
3. Objectives of plant breeding
4. Hybrid vigour
5. Griffiths and Avery's transformation experiment
6. Euchromatin, heterochromatin

SECTION – B(3x10=30M)

Answer any **THREE** of the following :

7. (a) Give an account of Eukaryotic cell and its components ?

   (Or)

   (b) Describe the structure and function of cell membrane?

8. (a) Give an account of the replication of DNA ?

   (Or)

   (b) Give an account of the structure of DNA?

9. (a) What is plant introduction? Give an account of it?

   (Or)

   (b) What is selection? Describe different methods of selection in crop improvement?

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I - MID TERM EXAMINATIONS DEC-2020

BOT-III CELL BIOLOGY,GENETICS & PLANT BREEDING

BOTANY -SEMESTER- V, Paper -V

TIME : : 2 Hrs MAX MARKS :: 50

SECTION – A(4x5=20M)

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2. Nucleosome model
3. Objectives of plant breeding
4. Hybrid vigour
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I - MID TERM EXAMINATIONS DEC-2020

BT-III – MOLECULAR BIOLOGY

BIOTECHNOLOGY SEMESTER- V, Paper -V

TIME : : 2 Hrs MAX MARKS :: 50 M

SECTION – A(4x5=20M)

Answer any **FOUR** of the following :

1. Gene
2. Chromosome
3. Harshey-chase-Experiment
4. Meselson and stahl's Experment
5. DNA Polymerase
6. Rolling- Circle replication of DNA

SECTION – B(3x10=30M)

Answer any **THREE** of the following :

7. Explain the Watson and crick model of DNA?
8. Give an account on Genome organization in Prokaryotes ?
9. Explain different methods proved as DNA as Genetic material ?
10. Describe the mechanism of DNA Replication ?
11. Explain the Different types of enzyme used in DNA Replication?

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I - MID TERM EXAMINATIONS DEC-2020

BT-III – MOLECULAR BIOLOGY

BIOTECHNOLOGY SEMESTER- V, Paper -V

TIME : : 2 Hrs MAX MARKS :: 50

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PRE – FINAL EXAMINATIONS – Feb -2019

BOT – PHARMACOGNOSY AND PHYTOCHEMISTRY

BOTANY - III SEMESTER- VI PAPER-CLUSTER III

TIME : : 3 Hrs MAX MARKS :: 75 M

SECTION – A Answer any **FIVE** of the following : (5x5=25M)

1. Chemical evolution of crude drugs.
2. Importance of pharmaconosy.
3. Microscopic study of ALSTONIA scholaris
4. Chemical constituents of ginger.
5. Steroids
6 Phenols
7 Bio synthesis of Alkaloids.
8. glycosides

SECTION – B Answer **ALL** questions: (5X10=50M)

9 Define pharmacognosy?write on essay on chemical and pharmacological classification of crude drugs?

(or)

b)Write an essay on analytical evolution of crude drugs?

10. a)give an account of organoleptic and microscopic studies, active principle, and common adulterants of Adhatoda vasica?

(or)

b) explain about common adulterants of medicinal plant parts like bark, leaf, seed, stem, root and other parts

11. a) what are terpinoids? explain various types of terpinoids?

(or)

b) Write an essay on shikimate path way?

12. a) what is aromatherapy? what are the different oils used in Aromatherapy, and their mode of action?

(or)

b) what are different types of phenols? Describe their bio synthesis?

13. a) Write are vitamins? Classify them with their physiological role?

(or)

b) what are anti- oxidants? Classify them with few examples?

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GORANTLA, GUNTUR -35.

PRE – FINAL EXAMINATIONS – Feb -2019

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II - MID TERM EXAMINATIONS – Sep -2019

MB – MICROBIAL GENETICS & MOLECULAR BIOLOGY

MICROBIOLOGY - II SEMESTER- III

TIME : : 3 Hrs MAX MARKS :: 75 M

SECTION – A Answer any **FIVE** of the following : (5x5=25M)

1. Enzymes involved in DNA replication
2. RNA as genetic material
3. Pyramidine dimer formation
4. Structure of Ribosomes
5. CDNA libraries
6. Any one gene cloning methods
7. Transformation
8. Genetic Engineering applications

SECTION – B Answer **ALL** questions: (5X10=50M)

9. a)Discuss the structure and organization of Prokaryotic DNA?

(or)

b) Explain the semi conversative mechanism of DNA replication?

10. a) Discuss the DNA repair mechanisms in detail?

(or)

b) Explain the mechanism of induced gene mutations?

11. a) Write about the functions of various types of RNA?

(or)

b) Explain the genetic code in detail?

12. a) Explain the gene regularity process?

(or)

b) Explain mRNA synthesis?

13. a) Write about Polymerise Chain Reaction ?

(or)

b) Explain the basic principles of Genetic engineering?

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II - MID TERM EXAMINATIONS – Sep -2019

MB – MICROBIAL GENETICS & MOLECULAR BIOLOGY

MICROBIOLOGY - II SEMESTER- III

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II - MID TERM EXAMINATIONS – Feb -2018

MB –MICROBIAL BIOCHEMISTRY&METABOLISM

MICROBIOLOGY - I SEMESTER- II PAPER-II

TIME : : 3 Hrs MAX MARKS :: 75 M

SECTION – A Answer any **FIVE** of the following (5x5=25M)

1. General characterstics of Carbohydrats
2. Nucleotides
3. Principles of Calorimeter
4. Co-enzymes
5. Alcohol fermentation
6. Turbidometry
7. Biphasic growth
8. ED pathway

SECTION – B Answer **ALL** questions: (5X10=50M)

9. a)Give a detail account on structure of DNA.

(or)

b)Comment on Fatty acids & Lipids.

10. a)Principles &applications of Centrifugation technique.

(or)

b) Principles & applications of Paper and thin layer chromatography.

11. a) Give a concise account on properties &classification of Enzymes.

(or)

b) Write a brief account on Enzyme inhibition.

12. a) Discuss different methods for measuring microbial growth.

(or)

b)What are the nutritional groups in micro organisms.

13. a) Describe Glycolysis.

(or)

b) Write a brief about anaerobic respiration & lactic acid fermentation.

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II - MID TERM EXAMINATIONS – Feb -2018

MB –MICROBIAL BIOCHEMISTRY&METABOLISM

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GORANTLA, GUNTUR -35.

I - MID TERM EXAMINATIONS – Aug. 2018

SEMESTER - V, CHEMISTRY - V

(INORGANIC, PHYSICAL & ORGANIC CHEMISTRY)

III-B.Sc.(BBC, MBC & MPC)

TIME : : 2 Hrs MAX MARKS : : 50 M

PART – A (4 x 5 =20M)

Answer any FOUR of the following :

1. Define EAN and give examples for obeying & not obeying EAN.
2. Explain with examples of Hydrate, Ionization & Coordination Isomerism
3. Explain splitting of d-orbital in Tetrahedral Complexes.
4. Write short notes on Tautomerism in Nitroalkanes
5. Give the mechanism of Neff reaction
6. Explain Reduction and Thermal Elimination of Nitrous acid reactions of Nitroalkanes

PART – B (3x10 = 30M)

Answer all the questions

7. a) Explain VBT Theory of Bonding in Complexes

   (or)

   b) Describe CFT Theory and Splitting of d- orbital in Octahedral complexes
8. a) Discuss the Stereoisomerism in C.N: 6 complexes

   (or)

   b) Explain Electronic Absorption of [Ti(H2O)6]+3 ion
9. a) Give the preparation of Nitroalkanes and write the reactions with 1)HNO_2 , 2)Halogenation, 3) Acidic nature 4)Reduction

   (or)

   b) Define Nitroalkanes, give Classification and write the mechanisms of Mannich reaction & Michael condensation

ST. ANN'S COLLEGE FOR WOMEN.

GORANTLA, GUNTUR -35.

I - MID TERM EXAMINATIONS – Aug. 2018

SEMESTER - V, CHEMISTRY - V

(INORGANIC, PHYSICAL & ORGANIC CHEMISTRY)

III-B.Sc.(BBC, MBC & MPC)

TIME : :2 Hrs MAX MARKS : : 50 M

PART – A (4 x 5 =20M)

Answer any FOUR of the following :

1. Define EAN and give examples for obeying & not obeying EAN.
2. Explain with examples of Hydrate, Ionization & Coordination Isomerism
3. Explain splitting of d-orbital in Tetrahedral Complexes.
4. Write short notes on Tautomerism in Nitroalkanes
5. Give the mechanism of Neff reaction
6. Explain Reduction and Thermal Elimination of Nitrous acid reactions of Nitroalkanes

PART – B (3x10 = 30M)

Answer all the questions

7. a) Explain VBT Theory of Bonding in Complexes

   (or)

   b) Describe CFT Theory and Splitting of d- orbital in Octahedral complexes
8. a) Discuss the Stereoisomerism in C.N: 6 complexes

   (or)

   b) Explain Electronic Absorption of [Ti(H2O)6]+3 ion
9. a) Give the preparation of Nitroalkanes and write the reactions with 1)HNO_2 , 2)Halogenation, 3) Acidic nature 4)Reduction

   (or)

   b) Define Nitroalkanes, give Classification and write the mechanisms of Mannich reaction & Michael condensation

PRINCIPAL

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