

ANDHRA UNIVERSITY
B.Sc. (CBCS) SEMESTER PATTERN
DEGREE EXAMINATIONS : JULY 2020

SIXTH SEMESTER
TIME-TABLE

| Day ,Date & Hours | Subject | Max. Marks |
|---|---|------------|
| Tuesday 07th July 2020 9 am to 12noon | <u>MATHEMATICS (Common for B.A & B.Sc.,)</u> Elective-VII(A) Laplace Transforms Elective-VII(B) Numerical Analysis Elective-VII(C) Number Theory & Elective Problem Solving Sessions | 75 |
| | <u>BOTANY</u> Theory (Elective -I) Paper VII(A) Optional Paper VII(A) Organic Farming and Sustainable agriculture Theory (Elective-II) VII(B) optional Paper VII(B) T Nursery, Gardening and Floriculture Theory (Elective-III) Paper VII (C) Optional Paper VII(C) T Plant tissue culture and its Biotechnological applications | 75 |
| Wednesday 08th July 2020 9 am to 12noon | <u>PHYSICS</u> Elective Paper VII(A) Analog and Digital Electronics Elective Paper VII (B) Material Science Elective Paper VII (C) Renewal Energy | 75 |
| | <u>ZOOLOGY</u> Elective Paper VII(A) 1 Immunology Elective Paper VII(B) Cellular Metabolism and Molecular Biology Elective Paper VII(C) Bioinformatics | 75 |
| Thursday 09th July 2020 9 am to 12noon | <u>COMPUTER SCIENCE</u> Paper VII Elective A Operating Systems Paper VII Elective B Computer Networks Paper VII Elective C Web Technologies | 75 |
| | <u>BIO-CHEMISTRY</u> Elective Theory Paper VII (A) Microbiology and Molecular Biology Elective Theory Paper VII (B) Biochemistry of Cell Elective Theory Paper VII (C) Biochemical Correlations in Diseases | 75 |
| | <u>Nutrition</u> Paper VII (A) Food Microbiology Hygiene & Sanitation | 75 |
| | | Cont-2 |

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| Friday 10th July 2020 9 am to 12noon | <u>CHEMISTRY</u> Elective Paper VII(A) Analytical Methods in Chemistry Elective Paper VII(B) Environmental Chemistry Elective Paper VII(C) Green Chemistry | 75 |
| | <u>HUMAN GENETICS</u> Elective Theory VII-A Basics of Human Biology Elective Theory VII-B Human Genome Project and Genomes Elective Theory VII-C Molecular Techniques in Genetic Engineering | 75 |
| | <u>ECONOMICS</u> Elective Theory VII-A Agricultural Economics Elective Theory VII - F Public Finance | 75 75 |
| Saturday 11th July 2020 9am to 12noon | <u>FISHERIES</u> Elective Paper VII-A Postharvest Technology | 75 |
| | <u>Geology</u> | 75 |
| | <u>BIO-TECHNOLOGY</u> Elective Paper: VII(A) Plant and Animal Biotechnology Elective Paper: VII (B) Environmental Biotechnology Elective Paper: VII(C) Industrial Biotechnology (Elective Theory) | 75 |
| | <u>AGRICULTURE</u> Paper VII: Elective –A Extension | 75 |
| | <u>ELECTRONICS</u> Paper VII(A) Electronic Instrumentation(Elective) Paper VII(B) Microcontroller and Interface (Elective) Paper VII(C) Modern Communication Systems (Elective) | 75 |
| | <u>Horticulture</u> Paper VII Plantation Crops and Weed Management | 75 |
| | Monday 13th July 2020 9am to 12noon | <u>MICROBIOLOGY</u> Elective Paper VII(A) Food and Industrial Microbiology Elective Paper VII(B) Microbial Biotechnology Elective Paper VII(C) Microbial Quality Control Instrumentation and biotechniques |
| <u>STATASTICS</u> (Common with B.A. & B.Sc.) with math combination Elective Paper – VII(A) Applied Statistics Elective Paper – VII(B) Demography and Vital Statistics | | 75 |
| | | Cont-3 |

Tuesday
14th July 2020
9 am to 12noon

Paper VIII

CLUSTER ELECTIVES-1(A-1, B1 & C1)

MATHEMATICS (Common for B.A & B.Sc)

Cluster Elective VIII-A-1 Integral Transforms

75

Cluster Elective VIII-B-1 Principles of Mechanics

Cluster Elective VIII-C-1 Graph Theory

PHYSICS

Cluster Elective Paper VIII-A-1-Introduction to Microprocessors
& Microcontrollers

75

Cluster Elective Paper VIII-B-1 Fundamentals of Nanoscience

Cluster Elective Paper VIII-C-1 Solar Thermal and Photovoltaic
Aspects

CHEMISTRY

Cluster Electives – I Paper VIII-A-1 Polymer Chemistry

75

Paper VIII-B-1 Fuel Chemistry & Batteries

Paper VIII-C-1 Organic Spectroscopic Techniques

BOTANY

VIII-A-1 Theory Plant diversity and human welfare

75

VIII -B-1 Biological Instrumentation and Methodology

ZOOLOGY

Cluster Elective Paper VIII A-1 Clinical Biochemistry

75

Cluster Elective Paper VIII B-1 Principles of Aquaculture

Cluster Elective Paper VIII C-1 General Sericulture Mulberry

Cultivation and Management

COMPUTER SCIENCE

75

Paper VIII Elective A 1 Foundations of Date Science

Paper VIII Elective B-1 Distributed Systems

Paper VIII Elective –C-1 PHP-MySql , Wordpress

ELECTRONICS

Paper VIII-A-1-Electronics Circuits and PCB Designing

75

Paper VIII-B-1-Embedded Systems

Paper VIII -C-1 Digital Signal Processing

BIO-CHEMISTRY

Cluster Theory VIII-(A-1) Molecular biology

75

Cluster Theory VIII-(B-1) Cell Biology-1

Cluster Theory VIII-(C-1) Diagnostic Biochemistry

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| <p>Continued</p> <p>Tuesday 14th July 2020 9 am to 12noon</p> | <p><u>BIO-TECHNOLOGY</u> Cluster Elective – I VIII-A (1) Nutritional Biotechnology Cluster Elective –II VIII-B-1-(1) Tissue culture Cluster Electives –III VIII-C-1- Cell Biology</p> | <p>Cont-4</p> |
| | <p><u>MICROBIOLOGY</u> Cluster Elective VIII-A (1) Industrial Microbiology Cluster Elective VIII –B (1) r DNA Technology Cluster Elective VIII – C (1) Biostatistics and Bioinformatics</p> | <p>75</p> |
| | <p><u>STATISTICS</u> VIII (A1) Optimization Techniques VIII-B (1) Advanced Experimental Design</p> | <p>75</p> |
| | <p><u>AGRICULTURE</u> (Cluster A-1) Paper VIII (Forestry and Organic Farming) Forestry – I</p> | <p>75</p> |
| | <p><u>HUMAN GENETICS</u> Cluster Theory VIII-A(1) Molecular Pathology in Human Diseases Cluster Theory VIII-B(1) Molecular Genetics Cluster Theory VIII-C(1) Clinical Genetics & Genetic Counseling</p> | <p>75</p> |
| | <p><u>FISHERIES</u> Cluster Elective Paper VIII A 1 Fishery Economics and Extension</p> | <p>75</p> |
| | <p><u>NUTRITION</u> Cluster Elective Paper VIII A 1 Applied Life Sciences</p> | <p>75</p> |
| | <p><u>Horticulture</u> Paper VIII(A) Medicinal and Aromatic Crops (Elective) Paper VIII(B) Horticulture, Farm Finance and Marketing (Elective)</p> | <p>75</p> |
| | | <p>Cont-5</p> |

Wednesday
15th July 2020
9 am to 12noon

Paper VIII

CLUSTER ELECTIVES-2 (A2,B2 & C2

MATHEMATICS (Common for B.A & B.Sc

Cluster Elective VIII-A-2 Advanced Numerical Analysis
Cluster Elective VIII-B- 2 Fluid Mechanics
Cluster Elective VIII-C-2 Applied Graph Theory

75

PHYSICS

Cluster Elective Paper VIII-A-2 Computational Physics and Programming
Cluster Elective Paper VIII-B-2 Synthesis and Characterization of Nanomaterials
Cluster Elective Paper VIII-C-2 Wind, Hydro and Ocean Energies

75

CHEMISTRY

Paper VIII-A-2 Instrumental Methods of Analysis
Paper VIII-B-2 Inorganic Materials of Industrial Importance
Paper VIII-C-2 Advanced Organic Reactions

75

BOTANY

VIII-A-2 Theory Ethno botany and medicinal Botany
VIII -B-2 Mushroom culture and Technology

75

ZOOLOGY

Cluster Elective Paper VIII A-2 Haematology
Cluster Elective Paper VIII B-2 Aquaculture Management
Cluster Elective Paper VIII C-2 Biology of Mulberry silk worm and Silk worm Rearing Technology

75

COMPUTER SCIENCE

Paper VIII Elective A 2 Big Date Technology
Paper VIII Elective B-2 Cloud Computing
Paper VIII Elective-C-2
VIII Advanced Java Script: JQUERY/AJAX/JSON/
Angular JS

75

ELECTRONICS

Paper VIII-A-2- Bio Medical Instrumentation
Paper VIII-B-2-Basic VLSI Design
Paper VIII -C-2- Transmission Lines, Antenna and Wave Propagation

75

Cont-6

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| Continued | <u>BIO-CHEMISTRY</u> | 75 |
| Wednesday 15th July 2020 9 am to 12noon | Cluster Theory VIII-(A-2) R DNT Technology Cluster Theory VIII-(B-2) Cell Biology-2 Cluster Theory VIII-(C-2) Clinical Biochemistry | |
| | <u>BIO-TECHNOLOGY</u> | 75 |
| | Cluster Elective -I VIII-A(2) Food Biotechnology Cluster Elective –II VIII-B (2) Industrial Biotechnology Cluster Elective – III VIII-C (2) Gene Biotechnology | |
| | <u>MICROBIOLOGY</u> | 75 |
| | Cluster Elective VIII- A(2)Food Microbiology Cluster Elective VIII –B (2) Microbes in Sustainable Agriculture Cluster Elective VIII –C (2) Bio safety and Intellectual property Right | |
| | <u>STATISTICS</u> | 75 |
| | VIII A(2) Operations Research VIII-B (2) Actuarial Statistics | |
| | <u>AGRICULTURE</u> | |
| | Cluster A-2- Paper VIII (Forestry and organic Farming) Forestry – II | |
| | <u>HUMAN GENETICS</u> | 75 |
| | Cluster Theory VIII-A(2) Cytogenetics Cluster Theory VIII-B(2) Human Biochemical Genetics Cluster Theory VIII-C(2) Laboratory Diagnosis in Genetics | |
| | <u>FISHERIES</u> | 75 |
| | Cluster Elective Paper VIII A 2 Fish Genetics and Seed Production | |
| | <u>NUTRITION</u> | 75 |
| | Cluster Elective Paper VIII A 2 Diet Therapy | |
| | | Cont-7 |

Thursday
16th July 2020
9 am to 12noon

Paper VIII
CLUSTER ELECTIVES-3 (A-3, B-3 & C3)

PHYSICS

Cluster Elective Paper VIII-A-3 Electronic Instrumentation
Cluster Elective Paper VIII-B-3 Applications of Nanomaterials and Devices
Cluster Elective Paper VIII-C-3 Energy Storage Devices

75

CHEMISTRY

Paper VIII-A-3 Analysis of Drugs, Foods, Dairy Products & Bio-chemical Analysis
Paper VIII-B-3 Analysis of Applied Industrial Products
Paper VIII-C-3 Pharmaceutical and Medicinal Chemistry

75

BOTANY

VIII-A3 Theory Pharmacognosy and Phytochemistry

75

ZOOLOGY

Cluster Elective Paper VIII A-3 Clinical Microbiology
Cluster Elective Paper VIII B-3 Postharvest Technology
Cluster Elective Paper VIII C-3 Silk Technology Silk Marketing and Extension

75

ELECTRONICS

Paper VIII-A-3- Consumer Electronics
Paper VIII-B-3-Computer Net Works
Paper VIII-C-3- Mobile Application Programming

75

BIO-CHEMISTRY

Cluster Theory VIII-(A-3) Microbiology
Cluster Theory VIII-(B-3) Membrane Biology
Cluster Theory VIII-(C-3) BioChemical Genetics

75

BIO-TECHNOLOGY

Cluster Elective -I VIII –A (3) Metabolisms
Cluster Elective-II VIII-B (3) Environmental Biotechnology
Cluster Elective-III VIII-c(3) Biostatistics and Bioinformatics

75

MICROBIOLOGY

Cluster Elective VIII –A(3)Management of Human Microbial Diseases
Cluster Elective VIII – B (3) Biofertilizers and Biopesticides
Cluster Elective VIII-C (3) Drug design and Discovery

Cont-8

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| <p>Continued</p> <p>Thursday 16th July 2020 9 am to 12noon</p> | <p><u>AGRICULTURE</u> (Cluster A-3) Paper VIII (Forestry and Organic Farming) Organic Farming & Sustainable Agriculture</p> <p><u>HUMAN GENETICS</u> Cluster Theory VIII-A(3) Genetics and Society Cluster Theory VIII-B(3) Human Population Genetics Cluster Theory VIII-C(3) Developmental & Behavioral Genetics</p> <p><u>FISHERIES</u> Cluster Elective paper VIII A 3 Fish Nutrition and Feed Technology</p> | <p>75</p> <p>75</p> <p>75</p> |
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(By order)

C.A.O., AU, VSP
Dt: 23 -05-2020


(S.V.SUDHAKARA REDDY)
CONTROLLER OF EXAMINATIONS