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ANDHRA UNIVERSITY
B.Sc. (CBCS) SEMESTER PATTERN
DEGREE EXAMINATIONS : APRIL, 2022

**SIXTH SEMESTER
TIME-TABLE**

Day ,Date & Hours	Subject	Max. Marks
Wednesday 13 th April 2022 9 am to 12noon	<u>MATHEMATICS (Common for B.A & B.Sc.,)</u> Elective-VII(A) Laplace Transforms BS-S3201/BA-S3201 Elective-VII(B) Numerical Analysis BS-S3202/BA-S3202 Elective-VII(C) Number Theory & Elective Problem Solving Sessions BS-S3203/BA-S3203	75
	<u>BOTANY</u> Theory (Elective -I) Paper VII(A) Optional BS-S3234 Paper VII(A) Organic Farming and Sustainable agriculture Theory (Elective-II) VII(B) optional BS-S3235 Paper VII(B) T Nursery, Gardening and Floriculture Theory (Elective-III) Paper VII (C) Optional BS-S3236 Paper VII(C) T Plant tissue culture and its Biotechnological applications	75
Saturday 16 th April 2022 9 am to 12noon	<u>PHYSICS</u> Elective Paper VII(A) Analog and Digital Electronics BS-S3210 Elective Paper VII (B) Material Science BS-S3211 Elective Paper VII (C) Renewal Energy BS-S3212	75
	<u>ZOOLOGY</u> Elective Paper VII(A) 1 Immunology BS-S3242 Elective Paper VII(B) Cellular Metabolism and Molecular Biology BS-S3243 Elective Paper VII(C) Bioinformatics BS-S3244	75
Monday 18 th April 2022 9 am to 12noon	<u>COMPUTER SCIENCE</u> Paper VII Elective A Operating Systems BS-S3254 Paper VII Elective B Computer Networks BS-S3255 Paper VII Elective C Web Technologies BS-S3256	75
	<u>BIO-CHEMISTRY</u> Elective Theory Paper VII (A) Microbiology and Molecular Biology BS-S3275 Elective Theory Paper VII (B) Biochemistry of Cell BS-S3276 Elective Theory Paper VII (C) Biochemical Correlations in Diseases BS-S3277	75
	<u>Nutrition</u> Paper VII (A) Food Microbiology Hygiene & Sanitation BS-S3340	75
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Tuesday 19 th April 2022 9 am to 12noon	<u>CHEMISTRY</u> Elective Paper VII(A) Analytical Methods in Chemistry BS-S3222 Elective Paper VII(B) Environmental Chemistry BS-S3223 Elective Paper VII(C) Green Chemistry BS-S3224	75
	<u>HUMAN GENETICS</u> Elective Theory VII-A Basics of Human Biology BS-S3321 Elective Theory VII-B Human Genome Project and Genomes BS-S3322 Elective Theory VII-C Molecular Techniques in Genetic Engineering BS-S3323	75
	<u>ECONOMICS</u> (See B.A. Time-Table) Elective Theory VII-A Agricultural Economics BS-S3343/BA-S3226 Elective Theory VII - F Public Finance	75 75
Wednesday 20 th April 2022 9am to 12noon	<u>FISHERIES</u> Elective Paper VII-A Postharvest Technology BS-S3336	75
	<u>BIO-TECHNOLOGY</u> Elective Paper: VII(A) Plant and Animal Biotechnology BS-S3287 Elective Paper: VII (B) Environmental Biotechnology BS-S3288 Elective Paper: VII(C) Industrial Biotechnology (Elective Theory) BS-S3289	75
	<u>AGRICULTURE</u> Paper VII: Elective –A Extension BS-S3317	75
	<u>ELECTRONICS</u> Paper VII(A) Electronic Instrumentation(Elective) BS-S3263 Paper VII(B) Microcontroller and Interface (Elective) BS-S3264 Paper VII(C) Modern Communication Systems (Elective) BS-S3265	75
	<u>Horticulture</u> Paper VII Plantation Crops and Weed Management BS-S3333	75
	Thursday 21 st April 2022 9am to 12noon	<u>MICROBIOLOGY</u> Elective Paper VII(A) Food and Industrial Microbiology BS-S3299 Elective Paper VII(B) Microbial Biotechnology BS-S3300 Elective Paper VII(C) Microbial Quality Control Instrumentation and biotechniques BS-S3301
<u>STATISTICS</u> (Common with B.A. & B.Sc.) with math combination Elective Paper – VII(A) Applied Statistics BS-S3311/BA-S3311 Elective Paper – VII(B) Demography and Vital Statistics BS-S3312/BA-S3312		75

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Friday
22nd April 2022
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	BS-S3204/BA-S3204	75
Cluster Elective VIII-B-1 Principles of Mechanics	BS-S3206/BA-S3206	
Cluster Elective VIII-C-1 Graph Theory	BS-S3208/BA-S3208	

PHYSICS

Cluster Elective Paper VIII-A-1-Introduction to Microprocessors & Microcontrollers	BS-S3213	75
Cluster Elective Paper VIII-B-1 Fundamentals of Nanoscience	BS-S3216	
Cluster Elective Paper VIII-C-1 Solar Thermal and Photovoltaic Aspects	BS-S3219	

CHEMISTRY

Cluster Electives – I Paper VIII-A-1 Polymer Chemistry	BS-S3225	75
Paper VIII-B-1 Fuel Chemistry & Batteries	BS-S3228	
Paper VIII-C-I Organic Spectroscopic Techniques	BS-S3231	

BOTANY

VIII-A-1 Theory Plant diversity and human welfare	BS-S3237	75
VIII -B-1 Biological Instrumentation and Methodology	BS-S3240	

ZOOLOGY

Cluster Elective Paper VIII A-1 Clinical Biochemistry	BS-S3245	75
Cluster Elective Paper VIII B-1 Principles of Aquaculture	BS-S3248	
Cluster Elective Paper VIII C-1 General Sericulture Mulberry Cultivation and Management	BS-S3251	

COMPUTER SCIENCE

Paper VIII Elective A 1 Foundations of Data Science	BS-S3257	
Paper VIII Elective B-I Distributed Systems	BS-S3259	
Paper VIII Elective –C-1 PHP-MySQL , Wordpress	BS-S3261	

ELECTRONICS

Paper VIII-A-1-Electronics Circuits and PCB Designing	BS-S3266	75
Paper VIII-B-1-Embedded Systems	BS-S3269	
Paper VIII -C-1 Digital Signal Processing	BS-S3272	

BIO-CHEMISTRY

Cluster Theory VIII-(A-1) Molecular biology	BS-S3278	75
Cluster Theory VIII-(B-1) Cell Biology-1	BS-S3281	
Cluster Theory VIII-(C-1) Diagnostic Biochemistry	BS-S3284	

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Continued Friday 22 nd April 2022 9 am to 12noon	<u>BIO-TECHNOLOGY</u> Cluster Elective – I VIII-A (1) Nutritional Biotechnology BS-S3290 Cluster Elective –II VIII-B-1-(1) Tissue culture BS-S3293 Cluster Electives –III VIII-C-1- Cell Biology BS-S3296	75
	<u>MICROBIOLOGY</u> Cluster Elective VIII-A (1)Industrial Microbiology BS-S3302 Cluster Elective VIII –B (1) r DNA Technology BS-S3305 Cluster Elective VIII – C (1) Biostatistics and Bioinformatics BS-S3308	75
	<u>STATISTICS</u> VIII (A1) Optimization Techniques BS-S3313/BA-S3313 VIII-B (1) Advanced Experimental Design BS-S3315/BA-S3315	75
	<u>AGRICULTURE</u> (Cluster A-1) Paper VIII (Forestry and Organic Farming) Forestry – I BS-S3318	75
	<u>HUMAN GENETICS</u> Cluster Theory VIII-A(1) Molecular Pathology in Human Diseases BS-S3324 Cluster Theory VIII-B(1) Molecular Genetics BS-S3327 Cluster Theory VIII-C(1) Clinical Genetics & Genetic Counseling BS-S3330	75
	<u>FISHERIES</u> Cluster Elective Paper VIII A 1 Fishery Economics and Extension BS-S3337	75
	<u>NUTRITION</u> Cluster Elective Paper VIII A 1 Applied Life Sciences BS-S3341	75
	<u>Horticulture</u> Paper VIII A-1 Medicinal and Aromatic Crops (Elective) BS-S3334	75

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Saturday
23rd April 2022
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	BS-S3205/BA-S3205	75
Cluster Elective VIII-B- 2 Fluid Mechanics	BS-S3207/BA-S3207	
Cluster Elective VIII-C-2 Applied Graph Theory	BS-S3209/BA-S3209	

PHYSICS

Cluster Elective Paper VIII-A-2 Computational Physics and Programming	BS-S3214	75
Cluster Elective Paper VIII-B-2 Synthesis and Characterization of Nanomaterials	BS-S3217	
Cluster Elective Paper VIII-C-2 Wind, Hydro and Ocean Energies	BS-S3220	

CHEMISTRY

Paper VIII-A-2 Instrumental Methods of Analysis	BS-S3226	75
Paper VIII-B-2 Inorganic Materials of Industrial Importance	BS-S3229	
Paper VIII-C-2 Advanced Organic Reactions	BS-S3232	

BOTANY

VIII-A-2 Theory Ethno botany and medicinal Botany	BS-S3238	75
VIII -B-2 Mushroom culture and Technology	BS-S3241	

ZOOLOGY

Cluster Elective Paper VIII A-2 Haematology	BS-S3246	75
Cluster Elective Paper VIII B-2 Aquaculture Management	BS-S3249	
Cluster Elective Paper VIII C-2 Biology of Mulberry silk worm and Silk worm Rearing Technology	BS-S3252	

COMPUTER SCIENCE

Paper VIII Elective A 2 Big Date Technology	BS-S3258	75
Paper VIII Elective B-2 Cloud Computing	BS-S3260	
Paper VIII Elective-C-2		
VIII Advanced Java Script: JQUERY/AJAX/JSON/ Angular JS	BS-S3262	

ELECTRONICS

Paper VIII-A-2- Bio Medical Instrumentation	BS-S3267	75
Paper VIII-B-2-Basic VLSI Design	BS-S3270	
Paper VIII -C-2- Transmission Lines, Antenna and Wave Propagation	BS-S3273	

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 Saturday
 23rd April 2022
 9 am to 12noon

BIO-CHEMISTRY

Cluster Theory VIII-(A-2) R DNT Technology BS-S3279
 Cluster Theory VIII-(B-2) Cell Biology-2 BS-S3282
 Cluster Theory VIII-(C-2) Clinical Biochemistry BS-S3285

75

BIO-TECHNOLOGY

Cluster Elective -I VIII-A(2) Food Biotechnology BS-S3291
 Cluster Elective -II VIII-B (2) Industrial Biotechnology BS-S3294
 Cluster Elective - III VIII-C (2) Gene Biotechnology BS-S3297

75

MICROBIOLOGY

Cluster Elective VIII- A(2)Food Microbiology BS-S3303
 Cluster Elective VIII -B (2) Microbes in Sustainable Agriculture BS-S3306
 Cluster Elective VIII -C (2) Bio safety and Intellectual property Right BS-S3309

75

STATISTICS

VIII A(2) Operations Research BS-S3314/BA-S3314
 VIII-B (2) Actuarial Statistics BS-S3316/BA-S3316

75

AGRICULTURE

Cluster A-2- Paper VIII (Forestry and organic Farming) Forestry - I BS-S3319

75

HUMAN GENETICS

Cluster Theory VIII-A(2) Cytogenetics BS-S3325
 Cluster Theory VIII-B(2) Human Biochemical Genetics BS-S3328
 Cluster Theory VIII-C(2) Laboratory Diagnosis in Genetics BS-S3331

75

FISHERIES

Cluster Elective Paper VIII A 2 Fish Genetics and Seed Production BS-S3338

75

NUTRITION

Cluster Elective Paper VIII A 2 Diet Therapy BS-S3342

Horticulture

Paper VIII A-2 Horticulture, Farm Finance and Marketing (Elective) BS-S3335

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Monday
25th April 2022
9 am to 12noon

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

PHYSICS

Cluster Elective Paper VIII-A-3 Electronic Instrumentation	BS-S3215	75
Cluster Elective Paper VIII-B-3 Applications of Nanomaterials and Devices	BS-S3218	
Cluster Elective Paper VIII-C-3 Energy Storage Devices	BS-S3221	

CHEMISTRY

Paper VIII-A-3 Analysis of Drugs, Foods, Dairy Products & Bio-chemical Analysis	BS-S3227	75
Paper VIII-B-3 Analysis of Applied Industrial Products	BS-S3230	
Paper VIII-C-3 Pharmaceutical and Medicinal Chemistry	BS-S3233	

BOTANY

VIII-A3 Theory Pharmacognosy and Phytochemistry	BS-S3239	75
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ZOOLOGY

Cluster Elective Paper VIII A-3 Clinical Microbiology	BS-S3247	75
Cluster Elective Paper VIII B-3 Postharvest Technology	BS-S3250	
Cluster Elective Paper VIII C-3 Silk Technology Silk Marketing and Extension	BS-S3253	

ELECTRONICS

Paper VIII-A-3- Consumer Electronics	BS-S3268	75
Paper VIII-B-3-Computer Net Works	BS-S3271	
Paper VIII-C-3- Mobile Application Programming	BS-S3274	

BIO-CHEMISTRY

Cluster Theory VIII-(A-3) Microbiology	BS-S3280	75
Cluster Theory VIII-(B-3) Membrane Biology	BS-S3283	
Cluster Theory VIII-(C-3) Bio-Chemical Genetics	BS-S3286	

BIO-TECHNOLOGY

Cluster Elective -I VIII -A (3) Metabolisms	BS-S3292	75
Cluster Elective-II VIII-B (3) Environmental Biotechnology	BS-S3295	
Cluster Elective-III VIII-c(3) Biostatistics and Bioinformatics	BS-S3298	

MICROBIOLOGY

Cluster Elective VIII -A(3)Management of Human Microbial Diseases	BS-S3304	75
Cluster Elective VIII - B (3) Bio-fertilizers and Bio- pesticides	BS-S3307	
Cluster Elective VIII-C (3) Drug design and Discovery	BS-S3310	


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Continued Monday 25 th April 2022 9 am to 12noon	<u>AGRICULTURE</u> (Cluster A-3) Paper VIII (Forestry and Organic Farming) Organic Farming & Sustainable Agriculture BS-S3320	75
	<u>HUMAN GENETICS</u> Cluster Theory VIII-A(3) Genetics and Society BS-S3326 Cluster Theory VIII-B(3) Human Population Genetics BS-S3329 Cluster Theory VIII-C(3) Developmental & Behavioral Genetics BS-S3332	75
	<u>FISHERIES</u> Cluster Elective paper VIII A 3 Fish Nutrition and Feed Technology BS-S3339	75

(By order)

C.A.O., AU, VSP
Dt:19-03-2022


(S.V.SUDHAKARAREDDY)
CONTROLLER OF EXAMINATIONS