

ANDHRA UNIVERSITY
B.Sc. (CBCS) SEMESTER PATTERN
DEGREE EXAMINATIONS MARCH/APRIL, 2023
ADMITTED BATCH 2015-2019
SIXTH SEMESTER (SUPPLEMENTARY)

REVISED TIME-TABLE

Day, Time Hours	Paper Code	SUBJECT	Max Marks
Friday 24 th March, 2023 2 PM TO 5 PM	MATHEMATICS (Common for B.A & B.Sc.)		
	BSS3201/ BA-S3201	Elective-VII(A) Laplace Transforms	75
	BSS3202/ BA-S3202	Elective-VII(B) Numerical Analysis	75
	BSS3203/ BA-S3203	Elective-VII(C) Number Theory & Elective Problem Solving Sessions	75
	BOTANY		
	BS-S3234	Theory (Elective -I) Paper VII(A) Optional Paper VII(A) Organic Farming and Sustainable agriculture	75
	BS-S3235	Theory (Elective-II) VII(B) optional Paper VII(B) T Nursery, Gardening and Floriculture	75
	BS-S3236	Theory (Elective-III) Paper VII (C) Optional Paper VII(C) T Plant tissue culture and its Biotechnological applications	75
Saturday 25 th March, 2023 2 PM TO 5 PM	PHYSICS		
	BS-S3210	Elective Paper VII(A) Analog and Digital Electronics	75
	BS-S3211	Elective Paper VII (B) Material Science	75
	BS-S3212	Elective Paper VII (C) Renewal Energy	75
	ZOOLOGY		
	BS-S3242	Elective Paper VII(A) 1 Immunology	75
	BS-S3243	Elective Paper VII(B) Cellular Metabolism and Molecular Biology	75
	BS-S3244	Elective Paper VII(C) Bioinformatics	75

Monday 27th March, 2023 2 PM TO 5 PM	COMPUTER SCIENCE		
	BS-S3254	Paper VII Elective A Operating Systems	75
	BS-S3255	Paper VII Elective B Computer Networks	75
	BS-S3256	Paper VII Elective C Web Technologies	75
	BIO-CHEMISTRY		
	BS-S3275	Elective Theory Paper VII (A) Microbiology and Molecular Biology	75
	BS-S3276	Elective Theory Paper VII (B) Biochemistry of Cell	75
	BS-S3277	Elective Theory Paper VII (C) Biochemical Correlations in Diseases	75
	Nutrition		
	BS-S3340	Paper VII (A) Food Microbiology Hygiene & Sanitation	75
Tuesday 28th March, 2023 2 PM TO 5 PM	CHEMISTRY		
	BS-S3222	Elective Paper VII(A) Analytical Methods in Chemistry	75
	BS-S3223	Elective Paper VII(B) Environmental Chemistry	75
	BS-S3224	Elective Paper VII(C) Green Chemistry	75
	HUMAN GENETICS		
	BS-S3321	Elective Theory VII-A Basics of Human Biology	75
	BS-S3322	Elective Theory VII-B Human Genome Project and Genomes	75
	BS-S3323	Elective Theory VII-C Molecular Techniques in Genetic Engineering	75
	ECONOMICS (See B.A. Time-Table)		
	BSS3343/ BA-S3226	Elective Theory VII-A Agricultural Economics Elective Theory VII - F Public Finance	75

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Wednesday 29th March, 2023 2 PM TO 5 PM	FISHERIES		
	BS-S3336	Elective Paper VII-A Postharvest Technology	75
	BIO-TECHNOLOGY		
	BS-S3287	Elective Paper: VII(A) Plant and Animal Biotechnology	75
	BS-S3288	Elective Paper: VII (B) Environmental Biotechnology	75
	BS-S3289	Elective Paper: VII(C) Industrial Biotechnology (Elective Theory)	75
	AGRICULTURE		
	BS-S3317	Paper VII: Elective –A Extension	75
	ELECTRONICS		
	BS-S3263	Paper VII(A) Electronic Instrumentation(Elective)	75
	BS-S3264	Paper VII(B) Microcontroller and Interface (Elective)	75
	BS-S3265	Paper VII(C) Modern Communication Systems (Elective)	75
	Horticulture		
	BS-S3333	Paper VII Plantation Crops and Weed Management	75
	Friday 31st March, 2023 2 PM TO 5 PM	MICROBIOLOGY	
BS-S3299		Elective Paper VII(A) Food and Industrial Microbiology BS-S3299	75
BS-S3300		Elective Paper VII(B) Microbial Biotechnology	75
BS-S3301		Elective Paper VII(C) Microbial Quality Control Instrumentation and bio techniques	75
STATISTICS			
(Common with B.A. & B.Sc.) with math combination			
BSS3311/ BA-S3311		Elective Paper – VII(A) Applied Statistics	75
BSS3312/ BA-S3312		Elective Paper – VII(B) Demography and Vital Statistics	75

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Saturday 01st April, 2023
2 PM TO 5 PM

Paper VIII		
CLUSTER ELECTIVES-1(A-1, B1 & C1)		
MATHEMATICS (Common for B.A & B.Sc)		
BS-S3204/ BA-S3204	Cluster Elective VIII-A-1 Integral Transforms	75
BSS3206/ BA-S3206	Cluster Elective VIII-B-1 Principles of Mechanics	75
BSS3208/ BA-S3208	Cluster Elective VIII-C-1 Graph Theory	75
PHYSICS		
BS-S3213	Cluster Elective Paper VIII-A-1-Introduction to Microprocessors & Microcontrollers	75
BS-S3216	Cluster Elective Paper VIII-B-1 Fundamentals of Nanoscience	75
BS-S3219	Cluster Elective Paper VIII-C-1 Solar Thermal and Photovoltaic Aspects	75
CHEMISTRY		
BS-S3225	Cluster Electives – I Paper VIII-A-1 Polymer Chemistry	75
BS-S3228	Paper VIII-B-1 Fuel Chemistry & Batteries	75
BS-S3231	Paper VIII-C-I Organic Spectroscopic Techniques	75
BOTANY		
BS-S3237	VIII-A-1 Theory Plant diversity and human welfare	75
BS-S3240	VIII -B-1 Biological Instrumentation and Methodology	75
ZOOLOGY		
BS-S3245	Cluster Elective Paper VIII A-1 Clinical Biochemistry	75
BS-S3248	Cluster Elective Paper VIII B-1 Principles of Aquaculture	75
BS-S3251	Cluster Elective Paper VIII C-1 General Sericulture Mulberry Cultivation and Management	75

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Saturday 01st April, 2023
2 PM TO 5 PM

	COMPUTER SCIENCE	
BS-S3257	Paper VIII Elective A 1 Foundations of Data Science	75
BS-S3259	Paper VIII Elective B-I Distributed Systems	75
BS-S3261	Paper VIII Elective –C-1 PHP-MySQL , Wordpress	75
	ELECTRONICS	
BS-S3266	Paper VIII-A-1-Electronics Circuits and PCB Designing	75
BS-S3269	Paper VIII-B-1-Embedded Systems	75
BS-S3272	Paper VIII -C-1 Digital Signal Processing	75
	BIO-CHEMISTRY	
BS-S3278	Cluster Theory VIII-(A-1) Molecular biology	75
BS-S3281	Cluster Theory VIII-(B-1) Cell Biology-1	75
BS-S3284	Cluster Theory VIII-(C-1) Diagnostic Biochemistr	75
	BIO-TECHNOLOGY	
BS-S3290	Cluster Elective –I VIII-A (1) Nutritional Biotechnology	75
BS-S3293	Cluster Elective –II VIII-B-1-(1) Tissue culture	75
BS-S3296	Cluster Electives –III VIII-C-1- Cell Biology	75
	MICROBIOLOGY	
BS-S3302	Cluster Elective VIII-A (1)Industrial Microbiology	75
BS-S3305	Cluster Elective VIII –B (1) r DNA Technology	75
BS-S3308	Cluster Elective VIII – C (1) Biostatistics and Bioinformatics	75
	STATISTICS	
BSS3313/ BA-S3313	VIII (A1) Optimization Techniques	75
BSS3315/ BA-S3315	VIII-B (1) Advanced Experimental Design	75
	AGRICULTURE	
BS-S3318	(Cluster A-1) Paper VIII (Forestry and Organic Farming) Forestry – I	75
	HUMAN GENETICS	
BS-S3324	Cluster Theory VIII-A(1) Molecular Pathology in Human Diseases	75
BS-S3327	Cluster Theory VIII-B(1) Molecular Genetics	75
BS-S3330	Cluster Theory VIII-C(1) Clinical Genetics & Genetic Counseling	75

Saturday 01 st April, 2023 2 PM TO 5 PM		FISHERIES	
	BS-S3337	Cluster Elective Paper VIII A 1 Fishery Economics and Extension	75
		NUTRITION	
	BS-S3341	Cluster Elective Paper VIII A 1 Applied Life Sciences	75
		HORTICULTURE	
	BS-S3334	Paper VIII A-1 Medicinal and Aromatic Crops (Elective)	75
Monday 03 rd April, 2023 2 PM TO 5 PM	Paper VIII <u>CLUSTER ELECTIVES-2 (A2,B2 & C2)</u>		
		<u>MATHEMATICS (Common for B.A & B.Sc)</u>	
	BSS3205/ BA-S3205	Cluster Elective VIII-A-2 Advanced Numerical Analysis	75
	BSS3207/ BA-S3207	Cluster Elective VIII-B- 2 Fluid Mechanics	75
	BSS3209/ BA-S3209	Cluster Elective VIII-C-2 Applied Graph Theory	75
		PHYSICS	
	BS-S3214	Cluster Elective Paper VIII-A-2 Computational Physics and Programming	75
	BS-S3217	Cluster Elective Paper VIII-B-2 Synthesis and Characterization of Nanomaterials	75
	BS-S3220	Cluster Elective Paper VIII-C-2 Wind, Hydro and Ocean Energies	75
		CHEMISTRY	
	BS-S3226	Paper VIII-A-2 Instrumental Methods of Analysis	75
	BS-S3229	Paper VIII-B-2 Inorganic Materials of Industrial Importance	75
	BS-S3232	Paper VIII-C-2 Advanced Organic Reactions	75

Monday 03rd April, 2023
2 PM TO 5 PM

BOTANY		
BS-S3238	VIII-A-2 Theory Ethno botany and medicinal Botany	75
BS-S3241	VIII -B-2 Mushroom culture and Technology	75
ZOOLOGY		
BS-S3246	Cluster Elective Paper VIII A-2 Haematology	75
BS-S3249	Cluster Elective Paper VIII B-2 Aquaculture Management	75
BS-S3252	Cluster Elective Paper VIII C-2 Biology of Mulberry silk worm and Silk worm Rearing	75
COMPUTER SCIENCE		
BS-S3258	Paper VIII Elective A 2 Big Date Technology	75
BS-S3260	Paper VIII Elective B-2 Cloud Computing	75
BS-S3262	Paper VIII Elective-C-2 VIII Advanced Java Script: JQUERY/AJAX/JSON/ Angular JS	75
ELECTRONICS		
BS-S3267	Paper VIII-A-2- Bio Medical Instrumentation	75
BS-S3270	Paper VIII-B-2-Basic VLSI Design	75
BS-S3273	Paper VIII –C-2- Transmission Lines, Antenna and Wave Propagation	75
BIO-CHEMISTRY		
BS-S3279	Cluster Theory VIII-(A-2) R DNT Technology	75
BS-S3282	Cluster Theory VIII-(B-2) Cell Biology-2	75
BS-S3285	Cluster Theory VIII-(C-2) Clinical Biochemistry	75
BIO-TECHNOLOGY		
BS-S3291	Cluster Elective -I VIII-A(2) Food Biotechnology	75
BS-S3294	Cluster Elective –II VIII-B (2) Industrial Biotechnology	75
BS-S3297	Cluster Elective – III VIII-C (2) Gene Biotechnology	75

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Monday 03rd April, 2023
2 PM TO 5 PM

MICROBIOLOGY		
BS-S3303	Cluster Elective VIII- A(2) Food Microbiology	75
BS-S3306	Cluster Elective VIII –B (2) Microbes in Sustainable Agriculture	75
BS-S3309	Cluster Elective VIII –C (2) Bio safety and Intellectual property Right	75
STATISTICS		
BS-S3314/ BA-S3314	VIII A(2) Operations Research	75
BS-S3316/ BA-S3316	VIII-B (2) Actuarial Statistics	75
AGRICULTURE		
BS-S3319	Cluster A-2- Paper VIII (Forestry and organic Farming) Forestry – I	75
HUMAN GENETICS		
BS-S3325	Cluster Theory VIII-A(2) Cytogenetics	75
BS-S3328	Cluster Theory VIII-B(2) Human Biochemical Genetics	75
BS-S3331	Cluster Theory VIII-C(2) Laboratory Diagnosis in Genetics	75
FISHERIES		
BS-S3338	Cluster Elective Paper VIII A 2 Fish Genetics and Seed Production	75
NUTRITION		
BS-S3342	Cluster Elective Paper VIII A 2 Diet Therapy	75
HORTICULTURE		
BS-S3335	Paper VIII A-2 Horticulture, Farm Finance and Marketing (Elective)	75

Tuesday 04th April, 2023
2 PM TO 5 PM

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

PHYSICS

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

CHEMISTRY

BS-S3227	Paper VIII-A-3 Analysis of Drugs, Foods, Dairy Products & Bio-chemical Analysis	75
BS-S3230	Paper VIII-B-3 Analysis of Applied Industrial Products	75
BS-S3233	Paper VIII-C-3 Pharmaceutical and Medicinal Chemistry	75
BS-S3239	<u>BOTANY</u> VIII-A3 Theory Pharmacognosy and Phytochemistry	75

ZOOLOGY

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

ELECTRONICS

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

BIO-CHEMISTRY

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

Tuesday 04th April, 2023
2 PM TO 5 PM

BIO-TECHNOLOGY		
BS-S3292	Cluster Elective -I VIII –A (3) Metabolisms	75
BS-S3295	Cluster Elective-II VIII-B (3) Environmental Biotechnology	75
BS-S3298	Cluster Elective-III VIII-c(3) Biostatistics and Bioinformatics	75
MICROBIOLOGY		
BS-S3304	Cluster Elective VIII –A(3)Management of Human Microbial Diseases	75
BS-S3307	Cluster Elective VIII – B (3) Bio-fertilizers and Bio- pesticides	75
BS-S3310	Cluster Elective VIII-C (3) Drug design and Discovery	75
AGRICULTURE		
BS-S3320	(Cluster A-3) Paper VIII (Forestry and Organic Farming) Organic Farming & Sustainable Agriculture	75
HUMAN GENETICS		
BS-S3326	Cluster Theory VIII-A(3) Genetics and Society	75
BS-S3329	Cluster Theory VIII-B(3) Human Population Genetics	75
BS-S3332	Cluster Theory VIII-C(3) Developmental & Behavioral Genetics	75
FISHERIES		
BS-S3339	<u>FISHERIES</u> Cluster Elective paper VIII A 3 Fish Nutrition and Feed Technology	75

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(By order)

C.A.O., AU, VSP
Dt:09-03-2023


(T. CHITTI BABU)
CONTROLLER OF EXAMINATIONS

ANDHRA UNIVERSITY
B.Sc. – FOOD SCIENCE AND NUTRITION
Admitted Batch 2015-2019
DEGREE EXAMINATIONS (CBCS) SEMESTER PATTERN : March/April,2023
SIXTH SEMESTER (SUPPLEMENTARY)
REVISED TIME-TABLE

Day ,Date & Hours	PAPER CODE	SUBJECT	MAX.MARKS
Friday 24 th March 2023 2 PM TO 5 PM	BS-S3345	DSC-1 Paper-7 Part: II Food Production	75
Saturday 25 th March 2023 2 PM TO 5 PM	BS-S3346	DSC-1 Paper-7 Part: II Functional Foods and Nutraceuticals	75
Monday 27 th March 2023 2 PM TO 5 PM	BS-S3347	DSC-1 Paper-7 Part: II Nutrition and Critical Care	75
CLUSTER -1 (Paper-8)			
Tuesday 28 th March 2023 2 PM TO 5 PM	BS-S3348	A-1 : Food Packaging	75
	BS-S3351	B-1 : Food Service Management	75
	BS-S3354	C-1 : Sensory Evaluation	75
CLUSTER -2 (Paper-8)			
Wednesday 29 th March 2023 2 PM TO 5 PM	BS-S3349	A-2 : Food trade and business Management	75
	BS-S3352	B-2 : Food Production and Patisserie	75
	BS-S3355	C-2 : Food Product Development	75
CLUSTER -3 (Paper-8)			
Friday 31 st March 2023 2 PM TO 5 PM	BS-S3350	A-3 : Food quality and certification	75
	BS-S3353	B-3 : Food Commodities and Preparation	75
	BS-S3356	C-3 : Food Service Facilities Planning	75

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C.A.O., AU, VSP
Dt:09-03-2023



(T. CHITTI BABU)
CONTROLLER OF EXAMINATIONS

ANDHRA UNIVERSITY
B.Sc. – FOOD TECHNOLOGY
Admitted Batch 2015-2019
DEGREE EXAMINATIONS (CBCS) SEMESTER PATTERN : March/April,2023
SIXTH SEMESTER (SUPPLEMENTARY)
TIME-TABLE

REVISED TIME-TABLE

Day ,Date & Hours	PAPER CODE	SUBJECT	MAX.MARKS
Friday 24 th March 2023 2 PM TO 5 PM	BS-S3357	DSC-1 Paper-7 Part: II Research Methodology	75
Saturday 25 th March 2023 2 PM TO 5 PM	BS-S3358	DSC-1 Paper-7 Part: II Food Processing Equipment-2	75
Monday 27 th March 2023 2 PM TO 5 PM	BS-S3359	DSC-1 Paper-7 Part: II Food Packaging- 2	75
CLUSTER -1 (Paper-8)			
Tuesday 28 th March 2023 2 PM TO 5 PM	BS-S3360	A-1 : Food quality and Certification	75
	BS-S3363	B-1 : Post harvest Technology	75
	BS-S3366	C-1 : Functional Foods and Nutraceuticals	75
CLUSTER -2 (Paper-8)			
Wednesday 29 th March 2023 2 PM TO 5 PM	BS-S3361	A-2 : Instrumentation for Food Analysis	75
	BS-S3364	B-2 : Food Science Technology	75
	BS-S3367	C-2 : Food Product Development & Evaluation	75
CLUSTER -3 (Paper-8)			
Friday 31 st March 2023 2 PM TO 5 PM	BS-S3362	A-3 : Food Safety and Hygeine -1	75
	BS-S3365	B-3 : Banking Technology	75
	BS-S3368	C-3 : Sensory Evaluation	75

C.A.O., AU, VSP
Dt:09-03-2023


(T. CHITTI BABU)
CONTROLLER OF EXAMINATIONS