#### **FACULTY OF SCIENCE**

#### **PROGRAMME OF EXAMINATIONS December-2019**

#### M.Sc. (Electronics) Semester-I (New Course)

**TIME ALLOWED: 3 HOURS** 

TIMINGS: 02.00 P.M. TO 05.00 P.M.

DATE	PAPER	PAPER TITLE
03.12.2019	MOD ELE-E-101	Elective: Power Electronics
11.12.2019	MOD ELE-C-101	Material Science
13.12.2019	MOD ELE-C-102	Electromagnetic Theory
17.12.2019	MOD ELE-C-103	Electronic Devices & Circuit
19.12.2019	MOD ELE-C-104	Network Analysis & Synthesis

#### M.Sc. (Electronics) Semester-I (Old Course)

TIME ALLOWED: 3 HOURS

TIMINGS: 02.00 P.M. TO 05.00 P.M.

PAPER	PAPER TITLE
MOD ELE-E-101	Elective: Introductory Electronics
MOD ELE-C-101	Classical and Quantum Mechanics
MOD ELE-C-102	Physics of Electronics Material
MOD ELE-C-103	Mathematical & Computation Methods in Electronics
MOD ELE-C-104	Electromagnetics, Antenna & Propagation
	MOD ELE-C-101  MOD ELE-C-102  MOD ELE-C-103

Note: (a) University reserves the right to change the schedule as per organizational requirements.

(b) Students are advised to remain updated on the L.U. website www.lkouniv.ac.in for any changes in the schedule.

-sd-(Prof. Poonam Tandon) Head, Department of Physics University of Lucknow, Dated: 29.11.2010



# UNIVERSITY OF LUCKNOW FACULTY OF SCIENCE PROGRAMME OF EXAMINATIONS-DEC-2019

M.Sc. (Ag.) Horticulture Semester I

Time Allowed: 3 Hours

Time: 2:00 P.M. to 5:00 P.M

Date	Paper
12.12.2019	Tropical and dry land Fruit Production
14.12.2019 Production Technology of Warm Season Vegetable Crops	
17.12.2019	Land Scaping and Ornamental Gardening
19.12.2019	Insect Pests of fruits, Vegetables, Spices and Medicinal Plants

M.Sc. (Ag.) Extension Semester I

Time Allowed: 3 Hours		Time: 2:00 P.M. to 5: 00 P.M
Date	Paper	
12.12.2019	Development Perspectives of Extension Education	
14.12.2019	Development Communication and Information Management	
17.12.2019	Fundamentals of Rural Sociology	
19.12.2019	Agriculture Marketing and Price Analysis	

M.Sc. (Ag.) Agronomy Semester I

Time Allowed: 3 H	ours	Time: 2:00 P.M. to 5:00 P.M.
Date	Paper	
12.12.2019	MODERN CONCEPTS IN CROP PRODUCTION	
14.12.2019	AGRONOMY OF MAJOR FIELD CROPS (KHARIF)	,
17.12.2019	TILLAGE IN CROP PRODUCTION	
19.12.2019	SOIL FERTILITY MANAGEMENT AND FERTILIZER USI	3

M.Sc. (Ag.) Soil Science and Agriculture Chemistry Semester I

Time: 2:00 P.M. to 5:00 P.M

Date	Paper
12.12.2019	SOIL CHEMISTRY
14.12.2019	SOIL FERTILITY AND PLANT NUTRITION
17.12.2019	MANAGEMENT OF PROBLEM SOILS AND WATER
19.12.2019	PRINCIPLES AND PRACTICES OF SOIL FERTILITY AND NUTRIENT MANAGEMENT

Note: (a) University reserves the right to change the schedule as per organizational requirements.

(b) Students are advised to remain updated on the L.U. website www.lkouniv.ac.in for any changes in the schedule.

(Prof. Kirti Sinha)
Dean, Faculty of Science
University of Lucknow, Lucknow

Date: 30.11.2019



# UNIVERSITY OF LUCKNOW FACULTY OF SCIENCE PROGRAMME OF EXAMINATIONS-DEC-2019

M.Sc. (Ag.) Horticulture Semester III

	Time A	llowed:	3 Hours
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Time:2:00P.M. to 5:00 P.M

Date	Paper
13.12.2019	Production Technologies For Medicinal And Aromatic Crops
16.12.2019	Genetic Engineering and Biotechnology
18.12.2019	Diseases of Fruits and Ornamental Crops

SUBJECT- M.Sc. (Ag.) Extension Semester III

Time Allowed: 3 Hours

Time:2:00P.M. to 5:00 P.M

Date	Paper	11110,2,001,111, to 5,001,111
13.12.2019	Human Resource Development(HRD)	
16.12.2019	Diffusion and Adoption of Innovations	
18.12.2019	International Trade	

SUBJECT- M.Sc. (Ag.) AGRONOMY Semester III

Time Allowed: 3 Hours

Time:2:00P.M. to 5:00 P.M

	Paper
Date	
13.12.2019	PRINCIPLES AND PRACTICES OF WEED MANAGEMENT
16.12.2019	DRYLAND FARMING
18.12.2019	SEED PRODUCTION TECHNIQUES IN FIELD CROPS

M.Sc. (Ag.) SOIL SCIENCE AND AGRICULTURE CHEMISTRY Semester III

Time Allemed 2 H	
Time Allowed: 3 Hours	Time:2:00P.M. to 5:00 P.M

Date	Paper
13.12.2019	AGRICULTURAL BIOCHEMISTRY
16.12.2019	SOIL SURVEY AND LAND USE PLANNING
18.12.2019	AGRICULTURAL PESTICIDES

Note: (a) University reserves the right to change the schedule as per organizational requirements.

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(Prof. Kirti Sinha)
Dean, Faculty of Science
University of Lucknow, Lucknow

Date: 30.11.2019

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# UNIVERSITY OF LUCKNOW FACULTY OF SCIENCE PROGRAMME OF EXAMINATIONS- December-2019

### (Regular/Exempted/B.P./Improvement)

### M.Sc. (Nutrition) SEM-I

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 P.M.

DATE	PAPER	TITLE
03.12.2019	Elective	Health and Fitness
11.12.2019	I	Human Physiology
13.12.2019	II	Food Microbiology
16.12.2019	III	Statistics
18.12.2019	IV	Institutional Food Admin

### M.Sc. (Nutrition) SEM-III

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 P.M.

DATE ,	PAPER	TITLE
02.12.2019	Elective	Food Toxicology
10.12.2019	I	Advanced Nutrition
12.12.2019	II	Diet Therapy
14.12.2019	III	Community Nutrition
17.12.2019	IV	Maternal and Child Nutrition

Note: (a) University reserves the right to change the schedule as per organizational requirements.

(b) Students are advised to remain updated on the L.U. website www.lkouniv.ac.in for any changes in the schedule.

Sd/(Prof. A M Saxena)
Superintendent of Exam.
University of Lucknow, Lucknow

Controller of Examinations
University of Lucknow,
Lucknow

Dated 27.11.2019



# FACULTY OF SCIENCE PROGRAMME OF EXAMINATIONS December – 2019

**VENUE**: Centre of Excellence in Renewable Energy Education and Research, University of Lucknow, New Campus.

### M Sc Renewable Energy Semester-I (Regular/Backpaper/Improvement)

TIME ALLOWED: 03 HOURS

DATE	PAPER	PAPER TITLE	
03/12/2019	I	Combustion, Heat and Mass Transfer	
05/12/2019	II	Electrical Power Technology	
10/12/2019	III	Solar Thermal Energy Conversion	
13/12/2019	IV	Solar Photovoltaic Energy Conversion	
16/12/2019	V	Energy Sources, Scenario and Environment (Elective)	

### M Sc Renewable Energy Semester-III (Regular/Backpaper/Improvement)

TIME ALLOWED: 03 HOURS

TIMINGS: 02:00 PM to 05:00 PM

TIMINGS: 09:00AM to 12:00 NOON

DATE	PAPER	PAPER TITLE
02/12/2019	I	Small Hydropower Conversion and other Renewable Energy Systems
04/12/2019	II	Energy in Buildings
07/12/2019	III	Distribution Generation and Integration of Renewable Energy with Grid
11/12/2019	IV	Energy Storage Systems
17/12/2019	V	Solar Photovoltaic Power Plants (Elective)

Note: a) University reserves the right to change the schedule as per organizational requirements.

b) Students are advised to remain updated on the L.U. website <a href="www.lkouniv.ac.in">www.lkouniv.ac.in</a> for any changes as the schedule.

(Dr Jyotsna Singh)

Coordinator, Renewable Energy

University of Lucknow, Lucknow



## UNIVERSITY OF LUCKNOW FACULTY OF SCIENCE

## PROGRAMME OF EXAMINATIONS (Semester Examination December 2019)

#### M.Sc. Food Processing and Food Technology Semester-I

Time:02:00 P.M. to 05:00 P.M

Date	Paper Code	Paper	
11.12.2019	FPT-101	Biochemistry and Metabolism	
13.12.2019	FPT-102	Food Microbiology & Biotechnology	
17.12.2019	FPT-103	Food Engineering	
19.12.2019	FPT-104	Food Evaluation	
20.12.2019	FPT-105	Post Harvest Management of Perishables	

#### M.Sc. Food Processing and Food Technology Semester: III

Time:02:00 P.M. to 005:00 P.M.

Date	Paper Code	Paper
10.12.2019	FPT-301	Technology of Meat, Poultry and Fish Processing
12.12.2019	FPT-302	Food Additives and Ingredients
14.12.2019	FPT-303	Food Quality and Food Safety Regulations
16.12.2019	FPT-304	Enzymes and Food Processing
18.12.2019	FPT-305	Food Toxicants and Allergens

Note: (a) University reserves the right to change the schedule as per organizational requirements.

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Sd/-

(Dr. Deepak Chandra) Co-ordinator

Co-ordinator

Food Processing & Food Tech. University of Lucknow, Lucknow

Lucknow

Controller of Examination

University of Lucknow

Dated 22.12.2019



#### UNIVERSITY OF LUCKNOW **FACULTY OF SCIENCE**

## Revised PROGRAMME OF EXAMINATIONS- December-2019

### M.Sc. (Zoology) SEM-I

(Regular/Exempted/B.P./Improvement)

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 PM

DATE PAPER (NEW	PAPER TITLE	
COURSE)		
3.12.2019 Elective Paper	Insects in Human Life	
).12.2017	Non Chordate	
1.12.2019	CDA WAS SOLVE	
3.12.2019 II	Animal Physiology	
***	Cell and Molecular Biology	
7.12.2019 III		

### M.Sc. (Zoology) SEM-III

(Regular/Exempted/B.P./Improvement)

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 PM

TIME ALLOW	ED: 3 HOURS	PAPER TITLE
DATE	PAPER (NEW COURSE)	
02.12.2019	Elective Paper (03	Biological Clocks and Human Health
	Credits)	Piagratematics & Evolutionar
10.12.2019	I	Quantitative Biology, Biosystematics & Evolutionary Biology
12.12.2019	II	Biochemistry, Inheritance biology and Biotechnology
16.12.2019	III	Developmental Biology & Immunology

Note: (a) University reserves the right to change the schedule as per organizational requirements.

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(Prof. Sudhir Kumar) Head, Department of Zoology University of Lucknow,

Dated: 21.11.2019

## FACULTY OF SCIENCE PROGRAMME OF EXAMINATIONS- DECEMBER-2019

#### (Regular/Exempted & Back Paper/Imp.) M.A. & M.Sc. (Statistics) Semester-I

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 Noon

DATE	PAPER	PAPER TITLE
03.12.2019	Elective	(Data Analysis Using SPSS)
11.12.2019	I	Real Analysis
13.12.2019	II	Linear Algebra
16.12.2019	III	Measure Theory and Probability
18.12.2019	IV	Sample Surveys

#### M.A. & M.Sc. (Statistics) Semester- III

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 Noon

DATE	PAPER	PAPER TITLE
02.12.2019	Elective	(Basic Statistics in Bio-sciences)
10.12.2019	I	Sequential Analysis and Reliability Theory
12.12.2019	II	Inference
14.12.2019	III	Block Designs and Their Analysis
17.12.2019	IV	Econometrics

#### M.A. & M.Sc. (Biostatistics) Semester- I

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 Noon

DATE	PAPER	PAPER TITLE
03.12.2019	Elective	(Data Analysis Using SPSS)
11.12.2019	I	Descriptive Statistics
13.12.2019	II	Elements of Demography
16.12.2019	III	Probability Theory and Distributions
18.12.2019	IV	Health Data management & Computer Programming

#### M.A. & M.Sc. Bio-Statistics- Semester- III

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 Noon

DATE	PAPER	PAPER TITLE
02.12.2019	Elective	Gender Statistics
10.12.2019	I	Generalized Linear Models
12.12.2019	II	Design of Experiments
14.12.2019	III	Survival Analysis
17.12.2019	IV	Epidemiology

Note: (a) University reserves the right to change the schedule as per organizational requirements.

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-sd-(Prof. Rajeev Pandey) Head, Department of Statistics University of Lucknow, Controller of Examination University of Lucknow, Lucknow

Midmil

Dated: 19.11.2019

## FACULTY OF SCIENCE PROGRAMME OF EXAMINATIONS- DECEMBER-2019

### **Total Quality Management**

Semester- I

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 Noon

DATE	PAPER	PAPER TITLE
03.12.2019	Elective	Application of Quality Concepts
11.12.2019	I	Quality Management
13.12.2019	II	Quality Management System
16.12.2019	III	Statistical Concept & Techniques for Quality MGT & Improvement (Descriptive Statistics)
18.12.2019	IV	Statistical Concept & Techniques for Quality Management & Improvement (Inferential Statistics)

#### **Total Quality Management**

Semester- III

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 Noon

DATE	PAPER	PAPER TITLE
02.12.2019	Elective	Business Communication
10.12.2019	I	Total Quality Management
12.12.2019	II	Advance Quality Management System Application in Various Manufacturing and Service Sectors
14.12.2019	III	Statistical Applications-DOE (Design of Experiments)
17.12.2019	IV	Software Quality

Note: (a) University reserves the right to change the schedule as per organizational requirements.

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-ed-

(Prof. Rajeev Pandey) Head, Department of Statistics University of Lucknow,

Dated: 19.11.2019

FACULTY OF SCIENCE
PROGRAMME OF EXAMINATIONS- December-2019

# (Regular/Exempted/B.P./Improvement) M.Sc. (GEOLOGY) SEMESTER-I

TIME ALLOWED: 3 HOURS

TIMINGS: 02.00 P.M. TO 05.00 P.M.

DATE	PAPER	PAPER TITLE
03.12.2019	EG-10	CBCS Elective Paper Fundamental of Geology-I
11.12.2019	CG-11	Mineralogy and Geochemistry
13.12.2019	CG-12	Structural Geology & Tectonics
17.12.2019	CG-13	Igneous Petrology
19.12.2019	CG-14	Engineering Geology and Ground water

### M.Sc. (GEOLOGY) SEMESTER -III

TIME ALLOWED: 3 HOURS

TIMINGS: 02.00 P.M. TO 05.00 P.M.

DATE	PAPER	PAPER TITLE
02.12.2019	CG-30	CBCS Elective, Applied Geology-I
10.12.2019	CG-31	Geophysics and Petroleum Geology
12.12.2019	CG-32	Environmental Geology and Natural Hazards
16.12.2019	CG-33	Palaeontology
18.12.2019	CG-34	Stratigraphy

Note: (a) University reserves the right to change the schedule as per organizational requirements.

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- Sd/(Prof. Rameshwar Bali)
Head, Deptt. of Geology
University of Lucknow, Lucknow

Date: 16-11-2019

**FACULTY OF SCIENCE** PROGRAMME OF EXAMINATIONS- December-2019

### (Regular/Exempted/B.P./Improvement) M.Sc. (Applied GEOLOGY) SEMESTER-I

TIME ALLOWED: 3 HOURS

TIMINGS: 02.00 P.M. TO 05.00 P.M.

DATE	PAPER	PAPER TITLE
11.12.2019	I-AG-11	Basic of Earth Sciences
13.12.2019	II- AG-12	Sedimentology
17.12.2019	IV-AG-14	Mineralogy, Crystallography & Igneous Petrology
19.12.2019	III-AG-13	Stratigraphy

### M.Sc. (Applied GEOLOGY) SEMESTER -III

TIME ALLOWED: 3 HOURS

TIMINGS: 02.00 P.M. TO 05.00 P.M.

DATE	PAPER	PAPER TITLE	
10.12.2019	I-AG-31	Geophysics and Geochemistry	
12.12.2019	II- AG-32	Sedimentary Basins	
14.12.2019	III-AG-33	Exploration, Drilling and Production	
16.12.2019	IV-AG-34	Energy Resources	

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(Prof. Dhruvsen Singh)

Director

Institute of Hydrocarbon Energy

& Georesources,

University of Lucknow, Lucknow

Date: 16-11-2019

### FACULTY OF SCIENCE

PROGRAMME OF EXAMINATIONS- December-2019

### M.A./M.Sc. (Mathematics) SEM-I (Regular/Exempted/B.P./Improvement)

TIME ALLOWED: 3 HOURS

TIMINGS: 02.00 P.M. TO 05.00 P.M.

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PAPER	PAPER TITLE
E-1	Discrete Mathematics (Elective Paper)
I	Topology-I
II	Advanced Algebra
III	Differential Geometry of Manifolds
IV	Integral Equations & Partial Differential Equations
V	Real Analysis
	E-1 I II III IV

### M.A./M.Sc. (Mathematics) SEM-III

TIME ALLOWED: 3 HOURS

TIMINGS: 02.00 P.M. TO 05.00 P.M.

DATE	PAPER	PAPER TITLE
02.12.2019	E-3	Approximation Theory (Elective Paper)
04.12.2019	I	Eunctional Analysis
06.12.2019	II	Structure on Even Dimensional Differentiable Manifolds
11.12.2019	III	Fluid Mechanics I
13.12.2019	V	Special Functions
16.12.2019	VIII	Mathematical Biology
18.12.2019	X	Ordinary Differential Equations
20.12.2019	XIII	Astronomy & Astrophysics
21.12.2019	XV	Number Theory in Cryptography change the schedule as per organizational requirements.

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-sd-

(Prof. Bhasker Srivastava) Head, Deptt. of Mathematics University of Lucknow

Dated: 16.11.2019



## UNIVERSITY OF LUCKNOW FACULTY OF SCIENCE

#### PROGRAMME OF EXAMINATIONS- DECEMBER-2019

#### M.Sc. (Botany) Semester-I

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 Noon

DATE	PAPER	PAPER TITLE
03.12.2019	Elective	Elective
06.12.2019	I	Microbiology: Plant Virology & Bacteriology
10.12.2019	II	Fungi & Plant Pathology
13.12.2019	III	Algae, Lichens, Microscopy & Culture Techniques
16.12.2019	IV	Bryophytes

### M.Sc. (Botany) SEM-III

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 Noon

DATE	PAPER	PAPER TITLE
02.12.2019	Elective	Elective
04.12.2019	I	Cytogenetics and Molecular Genetics
07.12.2019	II	Plant Breeding and Biostatistics
11.12.2019	III	Environment, Ecology and Plant Soil Relationship
14.12.2019	IV	Analytical Techniques and Computer Applications

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-sd-(Prof. Geeta Asthana) Head, Department of Botany University of Lucknow,

Dated: 19.11.2019



## UNIVERSITY OF LUCKNOW FACULTY OF SCIENCE

#### PROGRAMME OF EXAMINATIONS- DECEMBER-2019

### M.Sc. (Plant Science) SEM-I

#### (Back Paper/Improvement)

TIME ALLOWED: 3 HOURS

TIMINGS: 02.00 P.M. TO 05.00 P.M.

DATE	PAPER	PAPER TITLE
06.12.2019	I	Microbiology (Bacteriology, Virology) and Microbial Biotechnology
10.12.2019	II	Mycology & Plant Pathology
13.12.2019	III	Algology & Lichenology, Microscopy & Culture Techniques
16.12.2019	IV	Bryology

#### M.Sc. (Plant Science) SEM-III

TIME ALLOWED: 3 HOURS

TIMINGS: 02.00 P.M. TO 05.00 P.M.

PAPER	PAPER TITLE
I	Cytology, Genetics and Cytomolecular Genetics
II	Crop Improvement and Biostatistics
III	Environment, Ecology and Plant Soil Relationship
IV	Experimental Techniques and Computer Application
	III

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-sd-(Prof. Geeta Asthana) Head, Department of Botany University of Lucknow, Controller of Examinations University of Lucknow, Lucknow

Dated: 19.11.2019



#### UNIVERSITY OF LUCKNOW **FACULTY OF SCIENCE**

### PROGRAMME OF EXAMINATIONS- DECEMBER-2019

### M.Sc. (Environmental Science) SEM-I

TIME ALLOWED: 3 HOURS

TIMINGS: 02.00 P.M. TO 05.00 P.M.

DATE	PAPER	PAPER TITLE
03.12.2019	Elective	Elective
06.12.2019	I	The Earth and its Environment
10.12.2019	П	Biotic Community, Dynamics
13.12.2019	III	Biotic Responses I
16.12.2019	IV	Biotic Responses II

## M.Sc. (Environmental Science) SEM-III

TIME ALLOWED: 3 HOURS

TIMINGS: 02.00 P.M. TO 05.00 P.M.

PAPER	PAPER TITLE
Elective	Elective
I	Water and soil pollution
II	Radiation, Noise, Industrial and Thermal Pollution
III	Environmental toxicology
IV	Environmental Policy and Management
	Elective I II

Note: (a) University reserves the right to change the schedule as per organizational requirements.

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-sd-(Prof. Geeta Asthana) Head, Department of Botany University of Lucknow,

Controller of Examinations University of Lucknow, Lucknow

Dated: 19.11.2019

**FACULTY OF SCIENCE** 

PROGRAMME OF EXAMINATIONS December-2019

## M.Sc. (Biochemistry) Semester- I

(Regular/Exempted/B.P./Improvement)

TME ALLOWE	D: 3 HOURS	TIMINGS: 09.00 A.M. TO 12.00 P.
DATE	PAPER	PAPER TITLE
03.12.2019	BC-111	Elective: Introductory Biochemistry
11.12.2019	BC-101	Disabysical Chemistry and Techniques
13.12.2019	BC-102	Biological Macromolecules : Structure and Functions
17.12.2019	BC-103	Enzymes and Intermediary Metabolism I
19.12.2019	BC-104	Clinical Biochemistry and Physiology

M.Sc. (Biochemistry) Semester- III

ME ALLOWEI	D: 3 HOURS	PAPER TITLE
DATE	PAPER	PATER TITES
02.12.2019	BC-311	Elective: Molecular Biology and Gene Expression
10.12.2019	BC-301	Biotechnology -I
12.12.2019	BC-302	Immunology-I
14.12.2019	BC-303	Enzymes and Intermediary Metabolism II
18.12.2019	BC-304	Regulation of Gene Expression

M.Sc. (Biotechnology) Semester-I (Regular/Exempted/B.P./Improvement)

IME ALLOWE		TIMINGS: 09.00 A.M. TO 12.00 PM	
DATE	PAPER	PAPER TITLE	
03.12.2019	BT-111	Elective: Introductory Biotechnology	
11.12.2019	BT-101	Biomolecules and Biopolymers	
13.12.2019	BT-102	Biophysical Chemistry & Techniques	
17.12.2019	BT-103	Biostatistics & Computer Applications	
19.12.2019	BT-104	Enzymology Samostor III	

M.Sc. (Biotechnology) Semester- III

TIMINGS: 09.00 A.M. TO 12.00 P PAPER TITLE		IME ALLOWEI
PAPER III E	PAPER	DATE
Elective: Cell Biology and Genetic Engineerin	BT-311	02.12.2019
Molecular Biology II	BT-301	10.12.2019
Principles of Genetics Engineering	BT-302	12.12.2019
Microbial Technology & Bioprocess Engineering	BT-303	14.12.2019
Immunology-II	BT-304	18.12.2019
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Note: (a) University reserves the right to change the schedule as per organizational requirements. (b) Students are advised to remain updated on the L.U. website www.lkouniv.ac.in for any changes in the schedule.

(Prof. Sudhir Mehrotra) Head, Department of Biochemistry University of Lucknow,

Dated: 18.11.2019

### FACULTY OF SCIENCE

## PROGRAMME OF EXAMINATIONS December-2019

### M.Sc. (Physics) Semester- I

(Regular/Exempted/B.P./Improvement)

TIMINGS: 02.00 P.M. TO 05.00 P.M. TIME ALLOWED: 3 HOURS

TIME ALLO	OWED: 3 HOURS	PAPER TITLE
DATE	PAPER	The state of the s
03.12.2019	MOD. PHYE-101	Introduction to Electronic Communication
11.12.2019	MOD. PHYC-101	Mathematical Physics-I
13.12.2019		Classical Mechanics
17.12.2019	100	Electromagnetic Theory
19.12.2019		Introductory Quantum Mechanics
17.12.2017		

M.Sc. (Physics) Semester -III

TIME ALL	OWED: 3 HOURS	TIMINGS: 02.00 P.M. TO 05.00 P.M. PAPER TITLE
DATE		Materials Synthesis and Characterization Techniques
02.12.2019	MOD: PHYE-301	Quantum Mechanics-I
10.12.2019	MOD: PHYC-301	Nuclear Physics-I
12.12.2019	MOD: PHYC-302	Solid State Physics -I
14.12.2019	MOD: PHYC-303	Electronics – I
	MOD: PHYC-304 A	Opto-Electronics-I
18.12.2019	MOD: PHYC-304 B	- 11
	MOD: PHYC-304 C	X Ray Crystanography

### M.Sc. (Electronics) Semester-III

TIME ALLOWED: 3 HOURS

TIMINGS: 02.00 P.M. TO 05.00 P.M.

ALIVADO A DESCRIPTION DE LA CONTRACTOR D	ED: 3 HOURS	PAPER TITLE
DATE	PAPER	Control Advisor Decision Control Contr
2.12.2019	MOD ELE-E-301	Transducers & Biomedical Instrumentation
		Programming in C & Introduction to Matlab
10.12.2019	MOD ELE-C-301	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
2.12.2019	MOD ELE-C-302	Microprocessor & Interfacing
12112		Quantum Mechanics & Nano-Electronics
14.12.2019	MOD ELE-C-303	
10 12 2010	MOD ELE-C-304	Microwave & Antenna Systems
18.12.2019	IVIOD LIBE C C	the schedule as per organizational requirements.

Note: (a) University reserves the right to change the schedule as per organizational requirements.

(b) Students are advised to remain updated on the L.U. website <a href="https://www.lkouniv.ac.in">www.lkouniv.ac.in</a> for any changes in the schedule.

-sd-(Prof. Poonam Tandon) Head. Department of Physics University of Lucknow, Dated: 18.11.2019

### FACULTY OF SCIENCE

### PROGRAMME OF EXAMINATIONS December-2019

### M.Sc. (Nuclear Medicine) Semester-I

TIMINGS: 02.00 P.M. TO 05.00 P.M. TIME ALLOWED: 3 HOURS

ED: 3 HOURS	PARED TITLE
PAPER	PAPER TITLE
V	Elective Paper: Biostatistics
I	Anatomy & Physiology (Part-I)
II	Mathematics, Computer and Biostatics
III	Basic Radiation Physics and Chemistry
IV	Radiation Biology and Radiation Protection
	V I II III

## M.Sc. (Nuclear Medicine) Semester-III

ED: 3 HOURS	TIMINGS: 02.00 P.M. TO 05.00 P.M.
	PAPER TITLE
V	Elective Paper: Radiological Anatomy
I	Radiopharmacy-II
TT	Instrumentation Part-II
11	N 2012/03/03/03/03/03/03
III	Principle and practice of Radiological Protection
IV	Clinical Nuclear Medicine Techniques
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Note: (a) University reserves the right to change the schedule as per organizational requirements.

(b) Students are advised to remain updated on the L.U. website www.lkouniv.ac.in for any changes in the schedule.

(Prof. Poonam Tandon) Head, Department of Physics University of Lucknow, Dated: 18.11.2019



### UNIVERSITY OF LUCKNOW FACULTY OF SCIENCE

### PROGRAMME OF EXAMINATIONS- DECEMBER-2019

## M.Sc. (Microbiology) SEM-I

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 Noon

DATE	PAPER	PAPER TITLE
6.12.2019	I	Techniques and tools in Microbiology
0.12.2019	II	Microbial Diversity
13.12.2019	III	Cell Structure
16.12.2019	IV	Microbial Genetics

## M.Sc. (Microbiology) SEM-III

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 Noon

DATE	PAPER	PAPER TITLE
02.12.2019	Elective	Elective
04.12.2019	I	Environmental Microbiology
	II	Industrial & Food Microbiology
07.12.2019		Biostatistics and Computer Applications
11.12.2019	III	1
14.12.2019	IV	Microbial Biotechnology

NOTE:

No Assurance is given for the order of question papers.

2. Examinees are advised to see the University website. www.lkouniv.ac.in

-sd-(Prof. Geeta Asthana) Head, Department of Botany University of Lucknow,

Controller of Examinations University of Lucknow, Lucknow

Dated: 19.11.2019



## Revised PROGRAMME OF SEMESTER EXAMINATION

November-Dec.-2019 FACULTY OF SCIENCE

#### M.Sc. Semester-I & III

TIME ALLOWED: THREE HOURS

Morning & Evening Shift:

Semester I	Semester III	
03.12.2019	02.12.2019	(4)
11.12.2019	10.12.2019	
13.12.2019	12.12.2019	
15.12.2019	14.12.2019	
17.12.2019	16.12.2019	
19.12.2019	18.12.2019	
	03.12.2019 11.12.2019 13.12.2019 15.12.2019	03.12.2019 02.12.2019 11.12.2019 10.12.2019 13.12.2019 12.12.2019 15.12.2019 14.12.2019

NOTE: (a) University reserves the right to change the schedule as per organizational requirements.

(b) Students are advised to remain updated on the L.U. website <a href="https://www.lkouniv.ac.in">www.lkouniv.ac.in</a> for any changes in the schedule.

-sd-(Prof. K. Sinha) Dean, Faculty of Science University of Lucknow

Dated: 02.11.2019

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### PROGRAMME OF SEMESTER EXAMINATION

November-December-2019 FACULTY OF SCIENCE

### M.Sc. (Chemistry) Semester- I

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 P.M.

DATE	PAPER	PAPER TITLE
21.11.2019	I	CH-101: Inorganic Chemistry
25.11.2019	II	CH-102 : Organic Chemistry
29.11.2019	III	CH-103 : Physical Chemistry
4-6.11.2019	Practical	Inorganic, Organic & Physical Chemistry (Time 10.00AM to 5.00 PM)

M.Sc. (Chemistry) SEM-III

TIME ALLOWED: 3 HOURS

TIMINGS: 09.00 A.M. TO 12.00 P.M.

DATE	PAPER	PAPER TITLE
19.11.2019	I	CH-301 : Inorganic Chemistry
23.11.2019	II	CH-302 : Organic Chemistry
27.11.2019	III	CH-303 : Physical Chemistry
7-9.11.2019	Practical	Physical Chemistry (Time 10.00AM to 5.00 PM)
11-12.12.2019	Practical	Inorganic Chemistry & Organic Chemistry (Time 10.00AM to 5.00 PM)

### M.Sc. (Pharmaceutical Chemistry) SEM- I

TIME ALLOWED: 3 HOURS

TIMINGS: 02.00 P.M. TO 05.00 P.M.

DATE		PAPER TITLE
21.11.2019	I	Physical Chemistry
25.11.2019	II	Organometallic and Nuclear Chemistry
29.11.2019	III	Organic Chemistry
16-17.12.2019	Practical	Organic Chemistry & Pharmaceutical Chemistry (Time 10.00AM to 5.00 PM)

## M.Sc. (Pharmaceutical Chemistry) SEM-III

TIME ALLOWED: 3 HOURS

TIMINGS: 02.00 P.M. TO 05.00 P.M.

APER	PAPER TITLE
I	Spectroscopic methods in Pharmaceutical Chemistry
II	Medicinal Chemistry-I
III	Medicinal Chemistry-II
ractical	Pharmaceutical Chemistry (Time 10.00AM to 5.00 PM)
	III

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-sd-(Prof. NaveenKhare) Head, Deptt. of Chemistry University of Lucknow

Controller of Examinations University of Lucknow Lucknow

Dated: 31.10.2019