



**UNIVERSITY OF LUCKNOW  
FACULTY OF SCIENCE**

**Revised PROGRAMME OF EXAMINATIONS  
(Semester Examination December 2017)**

**B.Sc. (Agriculture) Semester-I**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. To 12.00 Noon**

| DATE       | PAPER TITLE                                   |
|------------|---|
| 20.12.2017 | Structural & Spoken English                   |
| 22.12.2017 | Principles of Agronomy                        |
| 24.12.2017 | Fundamentals of Soil Science                  |
| 26.12.2017 | Elements of Genetics                          |
| 28.12.2017 | Elementary Statistics and Applied Mathematics |
| 30.12.2017 | Agricultural Meteorology                      |
| 01.01.2018 | Rural Sociology and Educational Psychology    |
| 03.01.2018 | Fundamentals of Horticulture                  |

**B.Sc. (Agriculture) Semester-III**

**TIME ALLOWED: 3 HOURS**


**TIMINGS: 09.00 A.M. To 12.00 Noon**

| DATE       | PAPER TITLE                                 |
|------------|---|
| 19.12.2017 | Cereals, Millet & Pulses Crop               |
| 21.12.2017 | Principles of Plant Breeding                |
| 23.12.2017 | Farm Power and Machinery                    |
| 27.12.2017 | Environmental Science & Agro Ecology        |
| 29.12.2017 | Agriculture Marketing Export & Co-Operation |
| 31.12.2017 | Vegetable Production                        |
| 02.01.2018 | Elementary Microbiology & Soil Microbiology |

- NOTE:**
1. No Assurance is given for the order of question papers.
  2. Examinees are advised to see the University website. [www.lkouniv.ac.in](http://www.lkouniv.ac.in)


Sd/-  
(Prof. K. Sinha)

Dean, Faculty of Science  
University of Lucknow, Lucknow  
No.: .....

  
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University of Lucknow  
Lucknow  
Date: 15.12.2017

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**FACULTY OF SCIENCE**  
**PROGRAMME OF EXAMINATIONS**  
**(Semester Examination December 2017)**

**B.Sc. (Agriculture) Semester-V**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 02.00 P.M. to 05.00 P.M.**

| DATE       | PAPER TITLE  |
|------------|--|
| 20.12.2017 | Introduction to Plant Biotechnology                            |
| 22.12.2017 | Principle of food Science and Human Nutrition                  |
| 24.12.2017 | Post Harvest Management of Fruits and Vegetable                |
| 26.12.2017 | Crops Pests and Integrated Pest Management                     |
| 28.12.2017 | Plant Pathology: Corp Diseases and Their Management            |
| 30.12.2017 | Weed Management  |
| 01.01.2018 | Soil Fertility, Fertilizers and Integrated Nutrient Management |

**NOTE:** NO GUARANTEE CAN BE GIVEN TO THE CANDIDATE REGARDING THE ORDER OF QUESTION PAPER

sd/-  
(Prof. K. Sinha)

Dean, Faculty of Science  
University of Lucknow, Lucknow

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Date: 15.12.2017



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**UNIVERSITY OF LUCKNOW**  
**FACULTY OF SCIENCE**  
**PROGRAMME OF EXAMINATIONS- December-2017**

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

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

**TIME ALLOWED: 3 HOURS**

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

| DATE       | PAPER | Paper Title                  |
|------------|-------|------------------------------|
| 13.12.2017 | I     | Advnace Nutrition-I          |
| 15.12.2017 | II    | Diet Therapy                 |
| 18.12.2017 | III   | Community Nutrition          |
| 20.12.2017 | IV    | Maternal and Child Nutrition |
| 22.12.2017 | V     | Food Toxicology              |

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


**TIME ALLOWED: 3 HOURS**

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

| DATE       | PAPER | Paper Title                       |
|------------|-------|-----------------------------------|
| 12.12.2017 | I     | Human Physiology                  |
| 14.12.2017 | II    | Food Microbiology                 |
| 16.12.2017 | III   | Statistics                        |
| 19.12.2017 | IV    | Institutional Food Administration |
| 23.12.2017 | V     | Elective : Health and Fitness     |

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Sd/-  
(Prof. A M Saxena)  
Superintendent  
Department of Zoology  
University of Lucknow,

  
Controller of Examination  
University of Lucknow,  
Lucknow  
Dated .....

No LU/CoE .....

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**FACULTY OF SCIENCE**  
**PROGRAMME OF EXAMINATIONS Dec- 2017**

**M.Sc. (Ag.) Agriculture Extension, Semester: I**

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

| Date       | Paper  |
|------------|--|
| 23.12.2017 | Development Perspectives of Extension Education      |
| 26.12.2017 | Development Communication and Information Management |
| 28.12.2017 | Fundamentals of Rural Sociology                      |
| 30.12.2017 | Agriculture Marketing and Price Analysis             |

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

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

| Date       | Paper  |
|------------|--|
| 23.12.2017 | Soil Chemistry   |
| 26.12.2017 | Soil Fertility and Plant Nutrition                                 |
| 28.12.2017 | Management of Problem Soils and Water                              |
| 30.12.2017 | Principles and Practices of Soil Fertility and Nutrient Management |

**M.Sc. (Ag.) Horticulture Semester: I**

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

| Date       | Paper  |
|------------|--|
| 23.12.2017 | Tropical and dry land Fruit Production                   |
| 26.12.2017 | Production Technology of Warm Season Vegetable Crops     |
| 28.12.2017 | Land Scaping and Ornamental Gardening                    |
| 30.12.2017 | Insect Pests of Fruits, Vegetables, Spices and Medicinal |

**M.Sc. (Ag.) Agronomy Semester: I**

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

| Date       | Paper  |
|------------|--|
| 23.12.2017 | Modern Concepts in Crop Production           |
| 26.12.2017 | Agronomy of Major Field Crop (Kharif)        |
| 28.12.2017 | Tillage in Crop Production                   |
| 30.12.2017 | Soil Fertility Management and Fertilizer Use |

- NOTE:**
1. No Assurance is given for the order of question papers.
  2. Examinees are advised to see the University website. [www.lkouniv.ac.in](http://www.lkouniv.ac.in)
  3. Venue: Department of Zoology, Lucknow University, Lucknow.

sd/-

(Prof. A M Saxena)

Superintendent of Exam.


M.Sc. Agriculture

University of Lucknow, Lucknow


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Lucknow

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**UNIVERSITY OF LUCKNOW**  
**FACULTY OF SCIENCE**  
**PROGRAMME OF EXAMINATIONS Dec- 2017**

**M.Sc. (Ag.) Horticulture Semester: III**

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

| Date       | Paper  |
|------------|--|
| 21.12.2017 | Production Technologies For Medicinal And Aromatic Crops |
| 27.12.2017 | Genetic Engineering and Biotechnology                    |
| 29.12.2017 | Diseases of Fruits and Ornamental Crops                  |

**M.Sc. (Ag.) Agriculture Extension Semester: III**

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

| Date       | Paper                                 |
|------------|---------------------------------------|
| 21.12.2017 | Human Resource Development(HRD)       |
| 27.12.2017 | Diffusion and Adoption of Innovations |
| 29.12.2017 | International Trade                   |

**M.Sc. (Ag.) Soil Science and Agriculture Chemistry Semester: III**

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

| Date       | Paper                             |
|------------|-----------------------------------|
| 21.12.2017 | Agricultural Biochemistry         |
| 27.12.2017 | Soil Survey and land Use Planning |
| 29.12.2017 | Agricultural Pesticides           |


**M.Sc. (Ag.) Agronomy Semester: III**

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

| Date       | Paper                                       |
|------------|---|
| 21.12.2017 | Principles and Practices of Weed Management |
| 27.12.2017 | Dry Land Farming                            |
| 29.12.2017 | Seed Production Techniques in Field Crops   |


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Sd/-  
(Prof. A M Saxena)  
Superintendent of Exam.  
M.Sc. Agriculture  
University of Lucknow, Lucknow  
No LU/CoE .....

  
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University of Lucknow,  
Lucknow  
Dated .....

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**UNIVERSITY OF LUCKNOW**  
**FACULTY OF SCIENCE**  
**PROGRAMME OF EXAMINATIONS- DECEMBER-2017**

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

**B.C.A. Semester-I**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | PAPER       | PAPER TITLE                              |
|------------|-------------|--|
| 11.12.2017 | BCA-S 101 T | Computer Fundamental & Office Automation |
| 14.12.2017 | BCA-S 102 T | Programming Principle & Algorithm        |
| 18.12.2017 | BCA-S 103 T | Principle of Management                  |
| 21.12.2017 | BCA-S 104 T | Business Communication                   |
| 26.12.2017 | BCA-S 105 T | Mathematics –I                           |

**B.C.A. Semester –III**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | PAPER      | PAPER TITLE                               |
|------------|------------|---|
| 12.12.2017 | BCA-S 201T | Object Oriented Programming Using C++     |
| 15.12.2017 | BCA-S 202T | Data Structure Using C & C++              |
| 19.12.2017 | BCA-S 203  | Computer Architecture & Assembly Language |
| 22.12.2017 | BCA-S 204  | Business Economics                        |
| 27.12.2017 | BCA-S 205  | Elements of statistics                    |

**B.C.A. Semester –V**

**TIME ALLOWED: 3 HOURS**



**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | PAPER     | PAPER TITLE                                 |
|------------|-----------|---|
| 13.12.2017 | BCA-S301T | Introduction To Dbms                        |
| 16.12.2017 | BCA-S302T | Java programming And Dynamic Webpage Design |
| 20.12.2017 | BCA-S303  | Data Communication & Computer Network       |
| 23.12.2017 | BCA-S304  | Numerical Methods                           |

**NOTE: NO GUARANTEE CAN BE GIVEN TO THE CANDIDATE REGARDING THE ORDER OF QUESTION PAPER**

Sd/-  
Head  
Deptt. Computer Science  
University of Lucknow, Lucknow

Date: 22-12-2016

  
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**UNIVERSITY OF LUCKNOW**  
**FACULTY OF SCIENCE**  
**PROGRAMME OF EXAMINATIONS December-2017**

**(Regular/Exempted/Back Paper)**

**M.C.A. SEM-I**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | PAPER              | PAPER TITLE                                       |
|------------|--------------------|---|
| 27.11.2017 | MCA1-E-1(Elective) | System Analysis and Design                        |
| 11.12.2017 | MCA-101            | IT & Computer Fundamentals                        |
| 13.12.2017 | MCA-102            | Digital Logic & Computer Organization             |
| 15.12.2017 | MCA-103            | Programming- Using 'C' Language                   |
| 18.12.2017 | MCA-104            | Computer Programming & Problem Solving Principles |

**M.C.A. SEM-III**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | PAPER              | PAPER TITLE                                       |
|------------|--------------------|---|
| 12.12.2017 | MCA-301            | Relational Database Management System (Oracle-xi) |
| 14.12.2017 | MCA-302            | Theory of Computation                             |
| 16.12.2017 | MCA-303            | Objects Oriented Programming Concepts Using C++   |
| 19.12.2017 | MCA-304            | Computer Network                                  |
| 21.12.2017 | MCA3-E-1(Elective) | Operating System                                  |

**M.C.A. SEM-V**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | PAPER   | PAPER TITLE                  |
|------------|---------|------------------------------|
| 11.12.2017 | MCA-501 | Computer Graphics            |
| 13.12.2017 | MCA-502 | Multimedia & Virtual Reality |
| 15.12.2017 | MCA-503 | Compiler Design              |
| 18.12.2017 | MCA-504 | Network Security             |
| 20.12.2017 | MCA-505 | Neural Networks              |

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-Sd/-


Head,

Department of Computer Science  
University of Lucknow,


No. LU/CoE/.....

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Lucknow

Dated: .....

  
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**UNIVERSITY OF LUCKNOW**  
**FACULTY OF SCIENCE**  
**PROGRAMME OF EXAMINATIONS- December-2017**

**Venue: Department of Geology**

**M.Sc. (Applied Geology) SEM-I**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 01.00 P.M. TO 04.00 P.M.**

| DATE       | PAPER | PAPER TITLE                                    |
|------------|-------|--|
| 04.12.2017 | AG-11 | Basics of Earth Science                        |
| 07.12.2017 | AG-12 | Sedimentology                                  |
| 13.12.2017 | AG-13 | Stratigraphy                                   |
| 16.12.2017 | AG-14 | Mineralogy, Crystallography & Economic Geology |
| 19.11.2017 | AG-15 | Practical                                      |
| 21.12.2017 | AG-16 | Project Work Evaluation                        |

**P.G. Diploma in Exploration, Resources and Mining**  
**Technology- Semester I**


**\_TIME ALLOWED: 3 HOURS**

**TIMINGS: 01.00 P.M. TO 04.00 P.M.**

| DATE       | PAPER  | PAPER TITLE                                 |
|------------|--------|---|
| 04.12.2017 | PGD-11 | Mining Operations                           |
| 07.12.2017 | PGD-12 | Exploration Technology                      |
| 13.12.2017 | PGD-13 | Exploratory Data Assessment                 |
| 16.12.2017 | PGD-14 | Introduction to Mineral Resource Estimation |
| 20.11.2017 | PGD-15 | Practical                                   |

**NOTE: NO GUARANTEE CAN BE GIVEN TO THE CANDIDATE REGARDING THE ORDER OF QUESTION PAPER.**

- Sd/-  
**(Prof. Dhruv Sen Singh)**  
Incharge  
PGDERMT, ONGC Centre  
University of Lucknow, Lucknow  
Date: 20-11-2017

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

Revised PROGRAMME OF EXAMINATIONS December-2017

**M.Sc. PHYSICS Semester I (Batch-13) DEC-2017**

TIME: 9.00 am to 12.00 Noon

|                     |   |                          |
|---------------------|---|--------------------------|
| <b>MOD.PHYE-101</b> | INSTRUMENTS & DEVICES - I<br>(ELECTIVE) | <b>November 27, 2017</b> |
|---------------------|---|--------------------------|

TIME: 1.00 pm to 4.00 pm

|                     |                                |                          |
|---------------------|--------------------------------|--------------------------|
| <b>MOD.PHYC-101</b> | MATHEMATICAL PHYSICS - I       | <b>December 05, 2017</b> |
| <b>MOD.PHYC-102</b> | CLASSICAL MECHANICS            | <b>December 11, 2017</b> |
| <b>MOD.PHYC-103</b> | ELECTROMAGNETIC THEORY         | <b>December 13, 2017</b> |
| <b>MOD.PHYC-104</b> | INTRODUCTORY QUANTUM MECHANICS | <b>December 15, 2017</b> |

**M.Sc. PHYSICS Semester III (Batch-12) DEC-2017**

TIME: 9.00 am to 12.00 Noon

|                        |  |                          |
|------------------------|--|--------------------------|
| <b>MOD: PHYE - 301</b> | MATERIALS SYNTHESIS AND<br>CHARACTERIZATION TECHNIQUES. (ELECTIVE) | <b>November 28, 2017</b> |
|------------------------|--|--------------------------|

TIME: 1.00 pm to 4.00 pm

|                        |                                  |                          |
|------------------------|----------------------------------|--------------------------|
| <b>MOD: PHYC-301</b>   | QUANTUM MECHANICS - I            | <b>December 04, 2017</b> |
| <b>MOD: PHYC-302</b>   | NUCLEAR PHYSICS - I              | <b>December 07, 2017</b> |
| <b>MOD: PHYC-303</b>   | SOLID STATE PHYSICS - I          | <b>December 12, 2017</b> |
| <b>MOD: PHYC-304 A</b> | ELECTRONICS - I (Optional)       | <b>December 16, 2017</b> |
| <b>MOD: PHYC-304 B</b> | OPTO- ELECTRONICS - I (Optional) | <b>December 16, 2017</b> |
| <b>MOD: PHYC-304 C</b> | X RAY CRYSTALLOGRAPHY (Optional) | <b>December 16, 2017</b> |

**M.Sc. (Physics) Semester III DEC-2017**

TIME: 1.00 pm to 4.00 pm

| <u>MODULE</u>  | <u>PAPER</u>            | <u>DATE</u>              |
|----------------|-------------------------|--------------------------|
| <b>MOD: 11</b> | QUANTUM MECHANICS - I   | <b>December 04, 2017</b> |
| <b>MOD: 12</b> | NUCLEAR PHYSICS - I     | <b>December 07, 2017</b> |
| <b>MOD: 13</b> | SOLID STATE PHYSICS - I | <b>December 12, 2017</b> |
| <b>MOD: 16</b> | OPTO-ELECTRONICS - I    | <b>December 15, 2017</b> |
| <b>MOD: 17</b> | OPTO- ELECTRONICS - II  | <b>December 16, 2017</b> |

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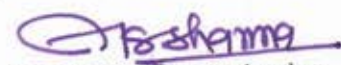
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(Prof. Pallavi Jha)  
Head, Department of Physics  
University of Lucknow,


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Controller of Examination  
University of Lucknow,  
Lucknow

Dated: 20.11.2017

  
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University of Lucknow,

# UNIVERSITY OF LUCKNOW

## FACULTY OF SCIENCE

Revised PROGRAMME OF EXAMINATIONS December-2017  
**M.Sc. Electronics Sem I Regular (Batch-22) DEC-2017**

| <u>MODULE</u>                      | <u>PAPER</u>                 | <u>DATE</u>              |
|------------------------------------|------------------------------|--------------------------|
| <u>TIME: 9.00 am to 12.00 Noon</u> |                              |                          |
| <b>MOD ELE-E-101</b>               | POWER ELECTRONICS (ELECTIVE) | <b>November 27, 2017</b> |
| <u>TIME: 1.00 pm to 4.00 pm</u>    |                              |                          |
| <b>MOD ELE-C-101</b>               | MATERIAL SCIENCE             | <b>December 05, 2017</b> |
| <b>MOD ELE-C-102</b>               | ELECTROMAGNETIC THEORY       | <b>December 11, 2017</b> |
| <b>MOD ELE-C-103</b>               | ELECTRONIC DEVICES & CIRCUIT | <b>December 13, 2017</b> |
| <b>MOD ELE-C-104</b>               | NETWORK ANALYSIS & SYNTHESIS | <b>December 15, 2017</b> |

### **M.Sc. Electronics Sem I BP/Exempted Candidates DEC-2016**

|                                    |  |                          |
|------------------------------------|--|--------------------------|
| <u>TIME: 9.00 am to 12.00 Noon</u> |  |                          |
| <b>MOD ELE-E-101</b>               | INTRODUCTORY ELECTRONICS (ELECTIVE)                  | <b>November 27, 2017</b> |
| <u>TIME: 1.00 pm to 4.00 pm</u>    |  |                          |
| <b>MOD ELE-C-101</b>               | CLASSICAL AND QUANTUM MECHANICS                      | <b>December 05, 2017</b> |
| <b>MOD ELE-C-102</b>               | PHYSICS OF ELECTRONIC MATERIAL                       | <b>December 11, 2017</b> |
| <b>MOD ELE-C-103</b>               | MATHEMATICAL & COMPUTATION METHODS<br>IN ELECTRONICS | <b>December 13, 2017</b> |
| <b>MOD ELE-C-104</b>               | ELECTROMAGNETICS, ANTENNA AND PROPAGATION            | <b>December 15, 2017</b> |

### **M.Sc. Electronics Semester III (Batch-21) DEC-2017**

TIME: 9.00 am to 12.00 Noon

|                      |  |                          |
|----------------------|--|--------------------------|
| <b>MOD ELE-E-301</b> | TRANSDUCERS & BIOMEDICAL INSTRUMENTATION<br>(ELECTIVE) | <b>November 28, 2017</b> |
|----------------------|--|--------------------------|

TIME: 1.00 pm to 4.00 pm

|                      |                                  |                          |
|----------------------|----------------------------------|--------------------------|
| <b>MOD ELE-C-301</b> | FIBER AND INTEGRATED OPTICS      | <b>December 04, 2017</b> |
| <b>MOD ELE-C-302</b> | COMMUNICATION ELECTRONICS        | <b>December 07, 2017</b> |
| <b>MOD ELE-C-303</b> | IC TECHNOLOGY AND VLSI DESIGNING | <b>December 12, 2017</b> |
| <b>MOD ELE-C-304</b> | MICRO PROCESSOR INTERFACING      | <b>December 16, 2017</b> |

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-sd-

(Prof. Pallavi Jha)  
Head, Department of Physics  
University of Lucknow,

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**Revised PROGRAMME OF EXAMINATIONS- December-2017**

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

**M.Sc. TQM SEM-I**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 .AM. TO 12.00 A.M.**

| DATE       | PAPER | PAPER TITLE  |
|------------|-------|--|
| 16.12.2017 | I     | Quality Management   |
| 18.12.2017 | II    | Quality Management System  |
| 20.12.2017 | III   | Statistical Concept & Techniques for Quality Management & Improvement (Descriptive Statistics) |
| 22.12.2017 | IV    | Statistical Concept & Techniques for Quality Management & Improvement (Inferential Statistics) |
| 24.12.2017 | V     | Quality Concepts and its Application   |

**M.Sc. TQM SEM-III**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 .AM. TO 12.00 A.M.**

| DATE       | PAPER | PAPER TITLE   |
|------------|-------|---|
| 05.12.2017 | I     | Total Quality Management  |
| 07.12.2017 | II    | Advance Quality Management System-Applications in Various Manufacturing and Service Sectors |
| 11.12.2017 | III   | Statistical Applications-Design of Experiment   |
| 13.12.2017 | V     | Software Quality  |
| 15.12.2017 | VIII  | Business Communication  |


- NOTE:**
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**PROGRAMME OF EXAMINATIONS- DECEMBER-2017**

**M.Sc. (Botany) SEM-I**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | PAPER | PAPER TITLE                                     |
|------------|-------|---|
| 11.12.2017 | I     | Microbiology : Plant Virology & Bacteriology    |
| 14.12.2017 | II    | Fungi & Plant Pathology                         |
| 18.12.2017 | III   | Algae, Lichens, Microscopy & Culture Techniques |
| 21.12.2017 | IV    | Bryophytes                                      |

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

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | PAPER | PAPER TITLE                                      |
|------------|-------|--|
| 12.12.2017 | I     | Cytology, Genetics and Cytogenetics              |
| 15.12.2017 | II    | Plant Breeding and Biostatistics                 |
| 19.12.2017 | III   | Environment, Ecology and Plant Soil Relationship |
| 22.12.2017 | IV    | Experimental Techniques and Computer Application |

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**PROGRAMME OF EXAMINATIONS- DECEMBER-2017**

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

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 01.00 P.M. TO 04.00 P.M.**

| DATE       | PAPER | PAPER TITLE  |
|------------|-------|--|
| 11.12.2017 | I     | Microbiology ( Bacteriology, Virology) and Microbial Biotechnology |
| 14.12.2017 | II    | Mycology & Plant Pathology (Fungal Diseases                        |
| 18.12.2017 | III   | Algology & Lichenology, Microscopy & Culture Techniques.           |
| 21.12.2017 | IV    | Bryology   |

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

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 01.00 P.M. TO 04.00 P.M.**

| DATE       | PAPER | PAPER TITLE                                      |
|------------|-------|--|
| 12.12.2017 | I     | Cytology, Genetics and Cytogenetics              |
| 15.12.2017 | II    | Plant Breeding and Biostatistics                 |
| 19.12.2017 | III   | Ecology, Environment, and Soil Science           |
| 22.12.2017 | IV    | Experimental Techniques and Computer Application |

- NOTE:**
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**PROGRAMME OF EXAMINATIONS- DECEMBER-2017**

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

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 01.00 P.M. TO 04.00 P.M.**

| DATE       | PAPER | PAPER TITLE                |
|------------|-------|----------------------------|
| 11.12.2017 | I     | Earth & its Environment    |
| 14.12.2017 | II    | Biotic Community, Dynamics |
| 18.12.2017 | III   | Biotic Responses I         |
| 21.12.2017 | IV    | Biotic Responses II        |

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

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 01.00 P.M. TO 04.00 P.M.**

| DATE       | PAPER | PAPER TITLE   |
|------------|-------|---|
| 12.12.2017 | I     | Environmental Pollution I- General Concept of Pollution and Air Pollution       |
| 15.12.2017 | II    | Environmental Pollution II- Water and Soil                                      |
| 19.12.2017 | III   | Environmental Pollution III- Radiation, Noise, Industrial and Thermal Pollution |
| 22.12.2017 | IV    | Special Problems of Environmental Pollution & their Management                  |

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**PROGRAMME OF EXAMINATIONS- DECEMBER-2017**

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

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | PAPER | PAPER TITLE                          |
|------------|-------|--------------------------------------|
| 11.12.2017 | I     | Techniques and tools in Microbiology |
| 14.12.2017 | II    | Microbial Diversity                  |
| 18.12.2017 | III   | Cell Structure                       |
| 21.12.2017 | 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                            |
|------------|-------|--|
| 12.12.2017 | I     | Environmental Microbiology             |
| 15.12.2017 | II    | Industrial & Food Microbiology         |
| 19.12.2017 | III   | Biostatistics and Computer Application |
| 22.12.2017 | IV    | Microbial Biotechnology                |

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**Revised PROGRAMME OF EXAMINATIONS- DECEMBER-2017**

**M.Sc. (Chemistry) SEM- I**

**TIME ALLOWED: 3 HOURS**

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

| DATE       | PAPER    | PAPER TITLE  |
|------------|----------|--|
| 11.12.2017 | I        | CH-101 : Inorganic Chemistry                                   |
| 15.12.2017 | II       | CH-102 : Organic Chemistry                                     |
| 21.12.2017 | III      | CH-103 : Physical Chemistry                                    |
| 27.11.2017 | Elective | CH-105 : Concepts of Chemistry-I (Time 09.00 AM to 12.00 Noon) |

**M.Sc. (Chemistry) SEM- III**

**TIME ALLOWED: 3 HOURS**

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

| DATE       | PAPER    | PAPER TITLE   |
|------------|----------|---|
| 05.12.2017 | I        | CH-301 : Inorganic Chemistry                                  |
| 13.12.2017 | II       | CH-302 : Organic Chemistry                                    |
| 19.12.2017 | III      | CH-303 : Physical Chemistry                                   |
| 28.11.2017 | Elective | CH-305 : Organic Chemistry- III (Time 09.00 AM to 12.00 Noon) |


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(Prof. Padam Kant)  
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**M.Sc. (Pharmaceutical Chemistry ) SEM- I**

**TIME ALLOWED: 3 HOURS**

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

| DATE       | PAPER    | PAPER TITLE  |
|------------|----------|--|
| 12.12.2017 | I        | Physical Chemistry   |
| 18.12.2017 | II       | Organometallic and Nuclear Chemistry                       |
| 22.12.2017 | III      | Organic Chemistry  |
| 27.11.2017 | Elective | Physical-Inorganic Chemistry (Time 09.00 AM to 12.00 Noon) |

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

**TIME ALLOWED: 3 HOURS**

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

| DATE       | PAPER    | PAPER TITLE                                       |
|------------|----------|---|
| 07.12.2017 | I        | Spectroscopic methods in Pharmaceutical Chemistry |
| 14.12.2017 | II       | Medicinal Chemistry-I                             |
| 20.12.2017 | III      | Medicinal Chemistry-II                            |
| 28.11.2017 | Elective | Organic Reactions (Time 09.00 AM to 12.00 Noon)   |


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**PROGRAMME OF EXAMINATIONS**  
**(Semester Examination December 2017)**

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

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

| Date       | Paper Code | Paper  |
|------------|------------|--|
| 04.12.2017 | FPT-101    | Food Chemistry                                 |
| 07.12.2017 | FPT-102    | Food Microbiology & Biotechnology              |
| 13.12.2017 | FPT-103    | Food Engineering                               |
| 15.12.2017 | FPT-104    | Advanced Techniques in Food Analysis           |
| 18.12.2017 | FPT-105    | Post Harvest Management of Fruits & Vegetables |

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

Time:09:00 P.M. to 012:00 Noon

| Date       | Paper Code | Paper   |
|------------|------------|---|
| 04.12.2017 | FPT-301    | Technology of Meat, Poultry and Fish Processing |
| 07.12.2017 | FPT-302    | Food Additives and Ingredients                  |
| 13.12.2017 | FPT-303    | Food Quality and Food Safety Regulations        |
| 15.12.2017 | FPT-304    | Enzymes and Food Processing                     |
| 18.12.2017 | FPT-305    | Food Toxicants and Allergens                    |

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(Dr. Deepak Chandra)

Co-ordinator

Food Processing & Food Tech.  
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**Revised PROGRAMME OF EXAMINATIONS- DECEMBER-2017**

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

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | PAPER | PAPER TITLE  |
|------------|-------|--|
| 12.12.2017 | I     | Descriptive Statistics (BST-01)  |
| 14.12.2017 | II    | Elements of Demography (BST-02)  |
| 16.12.2017 | III   | Probability Theory and Distributions (BST-03)                          |
| 19.12.2017 | IV    | Health Data management & Computer Programming (BST-04)                 |
| 27.11.2017 | V     | Elective (Data Analysis Using SPSS) (BST-05)<br>(9 A.M. to 12.00 Noon) |

**Bio-Statistics- Semester- III**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | PAPER | PAPER TITLE   |
|------------|-------|---|
| 13.12.2017 | I     | Generalized Linear Models (BST-11)  |
| 15.12.2017 | II    | Design of Experiments (BST-12)  |
| 18.12.2017 | III   | Survival Analysis (BST-13)  |
| 21.12.2017 | IV    | Epidemiology (BST-14)   |
| 28.11.2017 | V     | Elective: Quality Management & Improvement Techniques (BST-15) (09 A.M. to 12 Noon) |

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Revised PROGRAMME OF EXAMINATIONS December-2017

**(Regular/Exempted/B.P./Improvement)**  
**M.Sc. (Biochemistry) SEM- I**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | PAPER  | PAPER TITLE   |
|------------|--------|---|
| 04.12.2017 | BC-101 | Biophysical Chemistry and Techniques                |
| 07.12.2017 | BC-102 | Biological Macromolecules : Structure and Functions |
| 12.12.2017 | BC-103 | Enzymes and Intermediary Metabolism I               |
| 14.12.2017 | BC-104 | Clinical Biochemistry and Physiology                |

**M.Sc. (Biochemistry) SEM- III**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | PAPER  | PAPER TITLE                            |
|------------|--------|--|
| 05.12.2017 | BC-301 | Biotechnology –I                       |
| 11.12.2017 | BC-302 | Immunology-I                           |
| 13.12.2017 | BC-303 | Enzymes and Intermediary Metabolism II |
| 15.12.2017 | BC-304 | Regulation of Gene Expression          |

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Revised PROGRAMME OF EXAMINATIONS December-2017

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

**M.Sc. (Biotechnology) SEM- I**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 01.00 P.M. TO 04.00 P.M.**

| DATE       | PAPER  | PAPER TITLE                           |
|------------|--------|---------------------------------------|
| 04.12.2017 | BT-101 | Biomolecules and Biopolymers          |
| 07.12.2017 | BT-102 | Biophysical Chemistry & Techniques    |
| 12.12.2017 | BT-103 | Biostatistics & Computer Applications |
| 14.12.2017 | BT-104 | Enzymology                            |

**M.Sc. (Biotechnology) SEM- III**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 01.00 P.M. TO 04.00 P.M.**

| DATE       | PAPER  | PAPER TITLE                                   |
|------------|--------|---|
| 05.12.2017 | BT-301 | Molecular Biology II                          |
| 11.12.2017 | BT-302 | Principles of Genetics Engineering            |
| 13.12.2017 | BT-303 | Microbial Technology & Bioprocess Engineering |
| 15.12.2017 | BT-304 | Immunology-II                                 |


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

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | PAPER | PAPER TITLE  |
|------------|-------|--|
| 12.12.2017 | I     | Descriptive Statistics (BST-01)  |
| 14.12.2017 | II    | Elements of Demography (BST-02)  |
| 16.12.2017 | III   | Probability Theory and Distributions (BST-03)                          |
| 19.12.2017 | IV    | Health Data management & Computer Programming (BST-04)                 |
| 27.11.2017 | V     | Elective (Data Analysis Using SPSS) (BST-05)<br>(9 A.M. to 12.00 Noon) |

**Bio-Statistics- Semester- III**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | PAPER | PAPER TITLE   |
|------------|-------|---|
| 13.12.2017 | I     | Generalized Linear Models (BST-11)  |
| 15.12.2017 | II    | Design of Experiments (BST-12)  |
| 18.12.2017 | III   | Survival Analysis (BST-13)  |
| 20.12.2017 | IV    | Epidemiology (BST-14)   |
| 28.12.2017 | V     | Quality Management & Improvement Techniques (BST-15) (09 A.M. to 12 Noon) |


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**FACULTY OF SCIENCE**  
**PROGRAMME OF EXAMINATIONS- December-2017**  
**(Regular/Exempted/B.P./Improvement)**

**M.Sc. (GEOLOGY) SEM-I**

**TIME ALLOWED: 3 HOURS**

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

| DATE       | PAPER | PAPER TITLE                          |
|------------|-------|--------------------------------------|
| 05.11.2017 | I     | Mineralogy and Geochemistry          |
| 07.12.2017 | II    | Structural Geology & Tectonics       |
| 11.12.2017 | III   | Igneous Petrology                    |
| 13.12.2017 | IV    | Engineering Geology and Ground water |
| 27.11.2017 | EF-10 | CBCS Elective Geology                |

**Practical and Viva will be held on Sunday December 14, 2017 (09.00 A.M. onwards)**

**M.Sc. (GEOLOGY) SEM-III**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 11.00 A.M.**


| DATE       | PAPER | PAPER TITLE                               |
|------------|-------|---|
| 04.11.2017 | I     | Geophysics and Petroleum Geology          |
| 07.12.2017 | II    | Environmental Geology and Natural Hazards |
| 12.12.2017 | III   | Stratigraphy                              |
| 14.12.2017 | IV    | Palaeontology                             |
| 28.11.2017 | CG-30 | CBCS Elective Geology                     |

**Practical and Viva Voce will be held on Tuesday, December 13, 2017 (09.30 A.M. onwards)**

**NOTE: NO GUARANTEE CAN BE GIVEN TO THE CANDIDATE REGARDING THE ORDER OF QUESTION PAPER.**

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

Date: 17-11-2017

  
Controller of Examination  
University of Lucknow  
Lucknow

**UNIVERSITY OF LUCKNOW**  
**FACULTY OF SCIENCE**  
**PROGRAMME OF EXAMINATIONS- December-2017**

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

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 01.00 P.M. TO 04.00 P.M.**

| DATE       | PAPER | PAPER TITLE   |
|------------|-------|---|
| 27.11.2017 | E-1   | Approximation Theory                                |
| 05.12.2017 | I     | Topology-I  |
| 12.12.2017 | II    | Advance Algebra                                     |
| 14.12.2017 | III   | Differential Geometry of Manifolds                  |
| 16.12.2017 | IV    | Integral Equations & Partial Differential Equations |
| 19.12.2014 | V     | Real Analysis                                       |

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

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 01.00 P.M. TO 04.00 P.M.**

| DATE       | PAPER | PAPER TITLE                          |
|------------|-------|--------------------------------------|
| 28.11.2017 | E-3   | Approximation Theory                 |
| 04.12.2017 | I     | Functional Analysis                  |
| 07.12.2017 | II    | Structure on Even..... Sub-manifolds |
| 11.12.2017 | III   | Fluids Mechanics                     |
| 13.12.2017 | V     | Special Functions                    |
| 15.12.2017 | VIII  | Mathematical Biology                 |
| 18.12.2017 | X     | Ordinary Differential Equations      |
| 20.12.2017 | XIII  | Astronomy & Astrophysics             |
| 22.12.2017 | XV    | Theory in Cryptography               |


- NOTE:** 1. No Assurance is given for the order of question papers.  
2. Examinees are advised to see the University website. [www.lkouniv.ac.in](http://www.lkouniv.ac.in)

(Prof. Bhaskar Srivastava)  
Head, Department of Mathematics  
University of Lucknow,


No. LU/CoE/.....

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5. Director, IPPR.
6. Programmer, DTP.
7. DR. Exam.
8. O.S. Exam/O.S. (Cash)/I/c Secrecy /I/c Store.
9. Controller of Examination office.

  
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University of Lucknow,  
Lucknow

Dated: .....

  
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**UNIVERSITY OF LUCKNOW**  
**FACULTY OF SCIENCE**  
**Revised PROGRAMME OF EXAMINATIONS- December-2017**

**(Regular/Exempted/B.P./Improvement)**  
**M.Sc. Nuclear Medicine, Semester -I**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 01.00 PM. TO 04.00 P.M.**

| DATE       | PAPER | PAPER TITLE   |
|------------|-------|---|
| 27.11.2017 | V     | Elective Paper (Biostatistics) (9.00AM. to 12.00Noon) |
| 05.12.2017 | I     | Anatomy & Physiology (Part-I)                         |
| 11.12.2017 | II    | Biostatics, Mathematics and Computer                  |
| 13.12.2017 | III   | Basic Radiation Physics and Chemistry                 |
| 15.12.2017 | IV    | Radiation Biology and Radiation Protection            |

**M.Sc. Nuclear Medicine, Semester -III**

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 01.00 PM. TO 04.00 P.M.**

| DATE       | PAPER | PAPER TITLE                                     |
|------------|-------|---|
| 04.12.2017 | I     | Radiopharmacy-II                                |
| 07.12.2017 | II    | Instrumentation-II                              |
| 12.12.2017 | III   | Principle & Practice of Radiological Protection |
| 16.12.2017 | V     | Clinical Nuclear Medicine Techniques            |

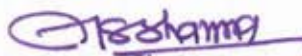
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(Prof. Satyawati Deswal)  
Head, Department of Nuclear Medicine  
University of Lucknow,


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University of Lucknow,  
Lucknow

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**FACULTY OF SCIENCE**  
**PROGRAMME OF EXAMINATIONS- December-2017**

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

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

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**

| DATE       | DAYS      | PAPER (NEW COURSE) |
|------------|-----------|--------------------|
| 11.12.2017 | Monday    | I                  |
| 13.12.2017 | Wednesday | II                 |
| 15.12.2017 | Friday    | III                |

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

**TIME ALLOWED: 3 HOURS**

**TIMINGS: 09.00 A.M. TO 12.00 Noon**


| DATE       | DAYS     | PAPER (NEW COURSE) |
|------------|----------|--------------------|
| 12.12.2017 | Tuesday  | I                  |
| 14.12.2017 | Thursday | II                 |
| 16.12.2017 | Saturday | III                |

- NOTE:**
1. No Assurance is given for the order of question papers.
  2. Examinees are advised to see the University website. [www.lkouniv.ac.in](http://www.lkouniv.ac.in)


(Prof. Omkar)  
Head, Department of Zoology  
University of Lucknow,  
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