



**Swami Ramanand Teerth Marathwada University, Nanded**

**( REVISED ) EXAMINATION PROGRAMME**

**M.Sc. Semester Pattern Winter – 2015**

**Timing:** I & II Semester 10:00 am to 01:00 pm

III & IV Semester 02:00 pm to 05:00 pm

| <b>TUESDAY 08-12-2015</b> |   |                 |
|---------------------------|---|-----------------|
| <b>Sr.No.</b>             | <b>Subject &amp; Paper</b>  | <b>Semester</b> |
|                           | <b>BIOTECHNOLOGY</b>  |                 |
| 01                        | Cell & Development Biology BT-I (CBCS Pattern)                      | I               |
| 02                        | Cell Biology – BTT-1 (Revised)                                      | I               |
| 03                        | Genetics Engineering-BT-XI (CBCS)                                   | III             |
| 04                        | Genetics Engineering-BTT 3.1 (Revised)                              | III             |
|                           | <b>MICROBIOLOGY</b>   |                 |
| 05                        | Cell Biology & Microbial Physiology-MB-101 (CBCS Pattern)           | I               |
| 06                        | Cell Biology & Microbial Physiology-MB-103 (Revised)                | I               |
| 07                        | Molecular Immunology –XI – MB-301 (CBCS Pattern)                    | III             |
| 08                        | Biostat., Comp. App. & Research Method-MB-301 (Revised)             | III             |
|                           | <b>ELECTRONICS</b>  |                 |
| 09                        | Fundamentals of Elect. Devices & Circuits-I ( <b>CBCS Pattern</b> ) | I               |
| 10                        | Electronics Devices & Circuits – I (Revised)                        | I               |
| 11                        | Power Electronics-II-EL-15 (CBCS)                                   | III             |
| 12                        | Power Electronics-II-XII (Revised)                                  | III             |
|                           | <b>BIO INFORMATICS</b>  |                 |
| 13                        | Cell Biology & Genetics –BI-I (CBCS Pattern)                        | I               |
| 14                        | Basics of Biology & Biochemistry-BI-101 (Revised)                   | I               |
| 15                        | Statistics for Bioinformatics - BI-XI(CBCS Pattern)                 | III             |
| 16                        | Immunology & Parasite Bioinformatics-BI-301 (Revised)               | III             |
|                           | <b>PHYSICS</b>  |                 |
| 17                        | Mathematical Physics-PH-01 (CBCS Pattern)                           | I               |
| 18                        | Mathematical Physics-PH-01 (Revised)                                | I               |
| 19                        | Electrodynamics –PH-15 (CBCS Pattern)                               | III             |
| 20                        | Electrodynamics –PH-13  | III             |
|                           | <b>CHEMISTRY</b>  |                 |
| 21                        | Inorganic Chemistry-I CH-411 (CBCS Pattern)                         | I               |
| 22                        | Inorganic Chemistry-I CH-411 (Revised)                              | I               |
| 23                        | Advance Spectroscopic Methods – CH-531 (CBCS)                       | III             |
| 24                        | Advance Spectroscopic Methods – CH-531 (Revised)                    | III             |

| <b>TUESDAY 08-12-2015</b> |   |     |
|---------------------------|---|-----|
|                           | <b>ZOOLOGY</b>  |     |
| 25                        | Invertebrates Structure & Function-I (CBCS Pattern)     | I   |
| 26                        | Invertebrates Structure & Function-ZOOL-101 (Revised)   | I   |
| 27                        | Vertebrates Structure & Function-ZOOL-301 (CBCS)        | III |
| 28                        | IVertebrates Structure & Function-ZOOL-301 (Revised)    | III |
|                           | <b>ENVIRONMENTAL SCIENCE</b>                            |     |
| 29                        | Eco Biology & Biodiversity Env-401 (CBCS Pattern)       | I   |
| 30                        | Eco Biology & Biodiversity Env-401 (Revised)            | I   |
| 31                        | Applied Microbiology Env-501 (CBCS Pattern)             | III |
| 32                        | Applied Microbiology Env-501 (Revised)                  | III |
|                           | <b>MATHEMATICS</b>                                      |     |
| 33                        | Abstract Algebra-I (Group & Ring Theory) (CBCS Pattern) | I   |
| 34                        | Advanced Abstract Algebra-I (Revised)                   | I   |
| 35                        | Functional Analysis-XIII (CBCS)                         | III |
| 36                        | Functional Analysis-XIII (Revised)                      | III |
|                           | <b>DAIRY SCIENCE</b>                                    |     |
| 37                        | Advance in LPM-I (CBCS Pattern)                         | I   |
| 38                        | Advance in LPM-I (Revised)                              | I   |
| 39                        | Dairy Engineering-I-XI (CBCS Pattern)                   | III |
| 40                        | Dairy Engineering-I-XIII (Revised)                      | III |
|                           | <b>BOTANY</b>   |     |
| 41                        | Biology & Diversity of Microbes-I (CBCS Pattern)        | I   |
| 42                        | Diversity of Microbes & Lower Cryptogams-I (Revised)    | I   |
| 43                        | Plant Physiology & Metabolism-XI (CBCS Pattern)         | III |
| 44                        | Plant Physiology & Metabolism-I-V (Revised)             | III |
|                           | <b>COMPUTER SCIENCE</b>                                 |     |
| 45                        | Computer Arch. & Microprocessor-CS-101-(CBCS Pattern)   | I   |
| 46                        | Computer Arch. & Microprocessor-S1-I – (Revised)        | I   |
| 47                        | Advance Database Administration – CS-301 (CBCS Pat)     | III |
| 48                        | Oracle DBA – S3-1 (Revised)                             | III |
|                           | <b>INFORMATION TECHNOLOGY</b>                           |     |
| 49                        | Fundamentals of I T – IT-101 (CBCS Pattern)             | I   |
| 50                        | Fundamentals of I T – S1-1 (Revised)                    | I   |
| 51                        | Software Engineering IT-301 (CBCS)                      | III |
| 52                        | Software Engineering-S3-1 (Revised)                     | III |
|                           |   |     |
|                           |   |     |
|                           |   |     |
|                           |   |     |

| <b>TUESDAY 08-12-2015</b>   |   |     |
|-----------------------------|---|-----|
|                             | <b>BIOCHEMISTRY</b>                                     |     |
| 53                          | Enzymology – BCH – I (CBCS Pattern)                     | I   |
| 54                          | Enzymology – BCH – I (Revised)                          | I   |
| 55                          | Genetic Engineering –(CBCS Pattern)                     | III |
| 56                          | Genetic Engineering –BCH -13 ( Revised)                 | III |
|                             | <b>CLINICAL RESEARCH</b>                                |     |
| 57                          | Funda. of Clinical Operations-CRT-101 (CBCS Pattern)    | I   |
| 58                          | Funda. of Clinical Operations-CRT-101 (Revised)         | I   |
| 59                          | Regulatory Affairs – CRT – 301(CBCS Pattern)            | III |
| 60                          | Regulatory Affairs – CRT – 301 (Revised)                | III |
|                             | <b>HERBAL MEDICINE</b>                                  |     |
| 61                          | Indian System of Medicines –I (CBCS Pattern)            | I   |
| 62                          | Indian System of Medicines – I(Revised)                 | I   |
| 63                          | Natural Plant Products – XI (CBCS Pattern)              | III |
| 64                          | Natural Plant Products – IX(Revised)                    | III |
| <b>WEDNESDAY 09-12-2015</b> |   |     |
|                             | <b>BIOTECHNOLOGY</b>                                    |     |
| 65                          | Molecular Genetics – BT-VI (CBCS Pattern)               | II  |
| 66                          | Genetics & Mol. Biology – BTT2–1 (Revised)              | II  |
| 67                          | Food Biotechnology – BTT4–1(Revised)                    | IV  |
|                             | <b>MICROBIOLOGY</b>                                     |     |
| 68                          | Microbial Metabolism -MB-201 (CBCS Pattern)             | II  |
| 69                          | Microbial Metabolism -MB-203 (Revised)                  | II  |
| 70                          | Bioinformatics, Proteo & Genomics –MB –401 (Revised)    | IV  |
|                             | <b>INDUSTRIAL MICROBIOLOGY</b>                          |     |
| 71                          | Bio analytical Technique –IMB-201                       | II  |
| 72                          | Pharmaceutical Microbiology – IMB – 401                 | IV  |
|                             | <b>ELECTRONICS</b>                                      |     |
| 73                          | Power Electronic Devices & Cercuits - VIII (CBCS)       | II  |
| 74                          | Power Electronics- I- VII (Revised)                     | II  |
| 75                          | Instrumentation – XIX (Revised)                         | IV  |
|                             | <b>BIOINFORMATICS</b>                                   |     |
| 76                          | Molecular Cell Biology & Genetics – BI –VI (CBCS Patt.) | II  |
| 77                          | Molecular Cell Biology & Genetics – BI –201 (Revised)   | II  |
| 78                          | Metabolomes & Metabolic Pathway Engg.-BI-401(Revised)   | IV  |
|                             | <b>PHYSICS</b>  |     |
| 79                          | Quantum Mechanics-PH-08 (CBCS)                          | II  |
| 80                          | Quantum Mechanics-PH-07 (Revised)                       | II  |
| 81                          | Fiber Optics & Optical Fiber Comm. –PH –19 (Revised)    | IV  |

| <b>WEDNESDAY 09-12-2015</b> |   |    |
|-----------------------------|---|----|
|                             | <b>CHEMISTRY</b>  |    |
| 82                          | Inorganic Chemistry-II-CH-421 (CBCS Pattern)            | II |
| 83                          | Inorganic Chemistry-II-CH-421 (Revised)                 | II |
|                             | <b>INORGANIC CHEMISTRY</b>                              |    |
| 84                          | Organo-metallic Catalysis & Fluxan.-CH-541/1 (Revised)  | IV |
|                             | <b>ORGANIC CHEMISTRY</b>                                |    |
| 85                          | Advanced Heterocyclic Chemistry – CH – 541/2 (Revised)  |    |
|                             | <b>PHYSICAL CHEMISTRY</b>                               |    |
| 86                          | Radiation chemistry – CH – 541/3 (Revised)              | IV |
|                             | <b>ANALYTICAL CHEMISTRY</b>                             |    |
| 87                          | Industrial Analytical Chemistry – CH – 541 /4 (Revised) | IV |
|                             | <b>ZOOLOGY</b>  |    |
| 88                          | Animal Ecology, Toxicology & Env. Pollution –VI (CBCS)  | II |
| 89                          | Animal Ecology & Env. Pollution –Zool-201 (Revised)     | II |
| 90                          | Genetics & Genetic Engineering – Zool – 401(Revised)    | IV |
|                             | <b>ENVIRONMENTAL SCIENCE</b>                            |    |
| 91                          | Environmental Biotechnology – Env.- 408 (CBCS)          | II |
| 92                          | Environmental Biotechnology – Env.- 407 (Revised)       | II |
| 93                          | Environmental Impact A.& D. Mgt.Env. – 507 (Revised)    | IV |
|                             | <b>MATHEMATICS</b>                                      |    |
| 94                          | Linear Algebra –VII (CBCS Pattern)                      | II |
| 95                          | Advanced Abstract Algebra – II -VII (Revised)           | II |
| 96                          | Numerical Analysis – XXVI (Revised)                     | IV |
|                             | <b>DAIRY SCIENCE</b>                                    |    |
| 97                          | Advances in Animal Nutrition & Breeding-VI (CBCS)       | II |
| 98                          | Advances in Animal Nutrition & Breeding-V (Revised)     | II |
| 99                          | Dairy Engineering – III – XVII (Revised)                | IV |
|                             | <b>BOTANY</b>   |    |
| 100                         | Instrumentation & Methods in Biology-VI - (CBCS Patt.)  | II |
| 101                         | Instrumentation & Bio technique – I (Revised)           | II |
| 102                         | Plant Physiology & Metabolism – II – V (Revised)        | IV |
|                             | <b>COMPUTER SCIENCE</b>                                 |    |
| 103                         | Advanced Networking Concepts – CS-201 (CBCS)            | II |
| 104                         | Advanced Networking Concepts – S2 – 1 (Revised)         | II |
| 105                         | Fuzzy System and ANN – S4-1 (Revised)                   | IV |
|                             | <b>INFORMATION TECHNOLOGY</b>                           |    |
| 106                         | Data Structure using C –IT-201(CBCS)                    | II |
| 107                         | Data Structure using C –S2-1(Revised)                   | II |
| 108                         | Java Programming S4 – 1 (Revised)                       | IV |

| <b>WEDNESDAY 09-12-2015</b> |  |     |
|-----------------------------|--|-----|
|                             | <b>BIOCHEMISTRY</b>  |     |
| 109                         | Principle of Molecular Biology – BCH – 08 – (CBCS Patt.)     | II  |
| 110                         | Principle of Molecular Biology – BCH – 7 (Revised)           | II  |
| 111                         | Metabolmic – BCH – 19(Rev)                                   | IV  |
|                             | <b>CLINICAL RESEARCH</b>                                     |     |
| 112                         | IPR & Data Exc.Bio. In Clini. Research – CRT – 201 (CBCS)    | II  |
| 113                         | IPR & Data Exc.Bio. In Clini. Research – CRT – 201 (Revised) | II  |
| 114                         | Project Mgmt. & Business Development – CRT – 401 (Revised)   | IV  |
|                             | <b>HERBAL MEDICINE</b>                                       |     |
| 115                         | Fundamentals of Pharmacognosy –VI- (CBCS Pattern)            | II  |
| 116                         | Fundamentals of Pharmacognosy –V (Revised)                   | II  |
| 117                         | Herbal Drug Development-XIII (Revised)                       | IV  |
| <b>THURSDAY 10-12-2015</b>  |  |     |
|                             | <b>BIOTECHNOLOGY</b>   |     |
| 118                         | Microbiology & Virology – BT-II (CBCS Pattern)               | I   |
| 119                         | Biochemistry- BTT1-2 (Revised)                               | I   |
| 120                         | Industrial Biotechnology –BT-XII(CBCS)                       | III |
| 121                         | Microbial Biotechnology – BTT3 – 2 (Revised)                 | III |
|                             | <b>MICROBIOLOGY</b>  |     |
| 122                         | Advances in Virology –MB-102 (CBCS Pattern)                  | I   |
| 123                         | Advances in Virology –MB-102 (Revised)                       | I   |
| 124                         | Recombinant DNA Technology –XII – MB-302 (CBCS Pat)          | III |
| 125                         | Molecular Immunology-MB-302 (Revised)                        | III |
|                             | <b>HERBAL MEDICINE</b>                                       |     |
| 126                         | Systematics of Plants –II (CBCS Pattern)                     | I   |
| 127                         | Systematics of Plants –II (Revised)                          | I   |
| 128                         | Medicinal Plant Biotechnology –XII (CBCS Pattern)            | III |
| 129                         | Medicinal Plant Biotechnology –X (Revised)                   | III |
|                             | <b>ELECTRONICS</b>   |     |
| 130                         | Optoelectronic devices & circuits -II (CBCS Pattern)         | I   |
| 131                         | Optoelectronics – II (Revised)                               | I   |
| 132                         | Digital Communication- EL-16 (CBCS)                          | III |
| 133                         | Digital Communication- XIV (Revised)                         | III |
|                             | <b>BIO-INFORMATICS</b>                                       |     |
| 134                         | Biophysics & Biochemistry - BI-II (CBCS Pattern)             | I   |
| 135                         | Genetics Information Flow & Processing –BI –102 (Revised)    | I   |
| 136                         | Chemo Informatics & Drug Designing – BI-XII (CBCS Patt)      | III |
| 137                         | Taxonomy & Phylogeny – BI – 302 (Revised)                    | III |

| <b>THURSDAY 10-12-2015</b> |   |     |
|----------------------------|---|-----|
|                            | <b>PHYSICS</b>  |     |
| 138                        | Classical Mechanics – PH – 02 (CBCS Pattern)                          | I   |
| 139                        | Classical Mechanics – PH – 02 (Revised)                               | I   |
| 140                        | Nuclear & Particle Physics – PH-16 (CBCS Pattern)                     | III |
| 141                        | Nuclear & Particle Physics – PH-14 (Revised)                          | III |
|                            | <b>CHEMISTRY</b>  |     |
| 142                        | Organic Chemistry – I - CH-412 (CBCS Pattern)                         | I   |
| 143                        | Organic Chemistry – I - CH-412 (Revised)                              | I   |
|                            | <b>INORGANIC CHEMISTRY</b>  |     |
| 144                        | Bio Inorganic and Super a molecular Chemistry CH 532/1(CBCS)          | III |
| 145                        | Bio-Inorganic &Supra molecular Chem.–CH 532/1(Revised)                |     |
|                            | <b>ORGANIC CHEMISTRY</b>  |     |
| 146                        | Natural Products – CH – 532/2 (CBCS)                                  | III |
| 147                        | Natural Products – CH – 532/2 (Revised)                               | III |
|                            | <b>PHYSICAL CHEMISTRY</b>   |     |
| 148                        | Solid State Chemistry – CH – 532/3 (CBCS pattern)                     | III |
| 149                        | Solid State Chemistry – CH – 532/3 (Revised)                          | III |
|                            | <b>ANALYTICAL CHEMISTRY</b>   |     |
| 150                        | <b>Fundamentals of Analytical Chemistry –CH –532/4 (CBCS Pattern)</b> | III |
| 151                        | Fundamentals of Analytical Chemistry –CH –532/4 (Revised)             | III |
|                            | <b>ZOOLOGY</b>  |     |
| 152                        | Biosystematics, Taxonomy & Evolution–II (CBCS Pattern)                | I   |
| 153                        | Biosystematics, Taxonomy & Evolution – Zool -102 (Revised)            | I   |
| 154                        | Molecular Cell Biology – Zool – 302 (CBCS)                            | III |
| 155                        | Molecular Cell Biology – Zool – 302 (Revised)                         | III |
|                            | <b>ENVIRONMENTAL SCIENCE</b>  |     |
| 156                        | Environmental Chemistry, Envo.- 402 (CBCS Pattern)                    | I   |
| 157                        | Environmental Chemistry, Envo.- 402 (Revised)                         | I   |
| 158                        | Remote Sensing and G.I.S. – Envi. 502 (CBCS)                          | III |
| 159                        | Remote Sensing and G.I.S. – Envi. 502 (Revised)                       | III |
|                            | <b>MATHEMATICS</b>  |     |
| 160                        | Real Analysis – P – II (CBCS Pattern)                                 | I   |
| 161                        | Real Analysis – I – II (Revised)                                      | I   |
| 162                        | Topology –XIV (CBCS Pattern)  | III |
| 163                        | Mechanics – XIV (Revised)   | III |
|                            |   |     |
|                            |   |     |
|                            |   |     |

| <b>THURSDAY 10-12-2015</b>    |  |     |
|-------------------------------|--|-----|
| <b>DAIRY SCIENCE</b>          |  |     |
| 164                           | Market Milk Industry-II (CBCS Pattern)                                 | I   |
| 165                           | Market Milk Industry-II (Revised)                                      | I   |
| 166                           | Dairy Microbiology-I-XII (CBCS)  | III |
| 167                           | Dairy Microbiology-I-XIV (Revised)                                     | III |
| <b>BOTANY</b>                 |  |     |
| 168                           | Biology and Diversity of Cryptogams – II (CBCS Pattern)                | I   |
| 169                           | Diversity of Higher Cryptogams & Gymnosperms -II (Revised)             | I   |
| 170                           | <b>Molecular Biology &amp; plant Biotechnology –XII (CBCS Pattern)</b> | III |
| 171                           | Cytogenetics, Gene regulation & Biotechnology-VI (Revised)             | III |
| <b>COMPUTER SCIENCE</b>       |  |     |
| 172                           | Programming in C++ - CS-102 (CBCS Pattern)                             | I   |
| 173                           | Programming in C++ - S1-2 (Revised)                                    | I   |
| 174                           | Java Server Pages, Servlets & Stru. CS-302 (CBCS Pattern)              | III |
| 175                           | Java Server Pages, Servlets & Struts – S3 – 2 (Revised)                | III |
| <b>INFORMATION TECHNOLOGY</b> |  |     |
| 176                           | Operation System – IT-102 (CBCS Pattern)                               | I   |
| 177                           | Operation System – S1 - 2 (Revised)                                    | I   |
| 178                           | Computer Networks-IT-302 (CBCS)  | III |
| 179                           | Computer Networks-S3-2 (Revised)                                       | III |
| <b>BIOCHEMISTRY</b>           |  |     |
| 180                           | Microbial Biochemistry – BCH – 2 (CBCS Pattern)                        | I   |
| 181                           | Microbial Biochemistry – BCH - 2(Revised)                              | I   |
| 182                           | Industrial Biochemistry – BCH-16(CBCS Pattern)                         | III |
| 183                           | Genomics to Drug Design – BCH - 14(Revised)                            | III |
| <b>CLINICAL RESEARCH</b>      |  |     |
| 184                           | Clinical Data Management – CRT -102 (CBCS Pattern)                     | I   |
| 185                           | Clinical Data Management – CRT -102(Revised)                           | I   |
| 186                           | Human Biology- CRT -302(CBCS Pattern)                                  | III |
| 187                           | Human Biology- CRT -302(Revised)                                       | III |
| <b>FRIDAY 11-12-2015</b>      |  |     |
| <b>BIOTECHNOLOGY</b>          |  |     |
| 188                           | Immunotechnology – BT-VII - (CBCS Pattern)                             | II  |
| 189                           | Immunology & immu. Technics – BTT2–2 (Revised)                         | II  |
| 190                           | Animal Biotechnology – BTT4 – 2 (Revised)                              | IV  |
| <b>MICROBIOLOGY</b>           |  |     |
| 191                           | Molecular Biology & Microbial Genetics– MB – 202 (CBCS)                | II  |
| 192                           | Molecular Biology & Microbial Genetics – MB – 204(Revised)             | II  |
| 193                           | Medical & Pharmaceutical Microbiology- MB–402 (Revised)                | IV  |

| <b>FRIDAY 11-12-2015</b>       |  |    |
|--------------------------------|--|----|
| <b>INDUSTRIAL MICROBIOLOGY</b> |  |    |
| 194                            | Industrial Fermentation Techniques – IMB – 202             | II |
| 195                            | Industrial Food & Dairy Fermentation – IMB – 402           | IV |
| <b>ELECTRONICS</b>             |  |    |
| 196                            | Fiber Optic Communication & Measurement -IX (CBCS)         | II |
| 197                            | Optical Fiber Communication & Measurement -VIII (Revised)  | II |
| 198                            | Simulation in Electronics: VHDL – XX (Revised)             | IV |
| <b>BIOINFORMATICS</b>          |  |    |
| 198/1                          | Immunoinformatics – BI - VII (CBCS)                        | II |
| 199                            | Statistical Methods in Bioinformatics – BI - 202 (Revised) | II |
| 200                            | Programming in Perl-BI-402(Revised)                        | IV |
| <b>PHYSICS</b>                 |  |    |
| 201                            | Statistical Mechanics – PH-09 (CBCS)                       | II |
| 202                            | Statistical Mechanics – PH-08 (Revised)                    | II |
| 203                            | Microwaves & Measurement – PH -20 (Revised)                | IV |
| <b>CHEMISTRY</b>               |  |    |
| 204                            | Organic Chemistry – II – CH -422 (CBCS Pattern)            | II |
| 205                            | Organic Chemistry – II – CH -422 (Revised)                 | II |
| <b>INORGANIC CHEMISTRY</b>     |  |    |
| 206                            | Photo Inorganic Chemistry – CH-542/1 (Revised)             | IV |
| <b>ORGANIC CHEMISTRY</b>       |  |    |
| 207                            | Bio- Organic & Green Chemistry- CH – 542/2 (Revised)       | IV |
| <b>PHYSICAL CHEMISTRY</b>      |  |    |
| 208                            | Photo Chemistry – CH – 542/3 (Revised)                     | IV |
| <b>ANALYTICAL CHEMISTRY</b>    |  |    |
| 209                            | Analytical methods – CH-542/4 (Revised)                    | IV |
| <b>ZOOLOGY</b>                 |  |    |
| 210                            | Gamete Biology & Animal Dev. – VII - (CBCS )               | II |
| 211                            | Gamete Biology & Animal Dev. – Zool. - 202 (Revised)       | II |
| 212                            | Endocrinology – Zool. - 402 (Revised)                      | IV |
| <b>ENVIRONMENTAL SCIENCE</b>   |  |    |
| 213                            | Air Pollution & Climatology .- 409 (CBCS)                  | II |
| 214                            | Air Pollution & Climatology Envi.- 408 (Revised)           | II |
| 215                            | Industrial Pollution Control & S.Mgt. Env-508 (Revised)    | IV |
| <b>MATHEMATICS</b>             |  |    |
| 216                            | Measure & Integration Theory - VIII (CBCS )                | II |
| 217                            | Integration Theory - VIII (Revised)                        | II |
| 218                            | Partial Differential Equations -XXVII (Revised)            | IV |



| <b>FRIDAY 11-12-2015</b>   |  |     |
|----------------------------|--|-----|
|                            | <b>DAIRY SCIENCE</b>   |     |
| 219                        | Quality Assurance in Dairy Industry - VII (CBCS Pattern)     | II  |
| 220                        | Quality Assurance in Dairy Industry - VI (Revised)           | II  |
| 221                        | Dairy Microbiology – II - XVIII (Revised)                    | IV  |
|                            | <b>BOTANY</b>  |     |
| 222                        | Cell Biology, Genetics & Plant Breeding - VII (CBCS Pattern) | II  |
| 223                        | Cell Biology & Genetics - II (Revised)                       | II  |
| 224                        | Genetic Engineering & Biostatistics - VI (Revised)           | IV  |
|                            | <b>COMPUTER SCIENCE</b>                                      |     |
| 225                        | Mobile Communication – CS-202 (CBCS)                         | II  |
| 226                        | Mobile Communication – S2 – 2 (Revised)                      | II  |
| 227                        | Linux Administration – S4 – 2 (Revised)                      | IV  |
|                            | <b>INFORMATION TECHNOLOGY</b>                                |     |
| 228                        | OOPs through C++ - IT-202 (CBCS)                             | II  |
| 229                        | OOPs through C++ - S2-2(Revised)                             | II  |
| 230                        | Software Testing – S4 – 2 (Revised)                          | IV  |
|                            | <b>BIOCHEMISTRY</b>  |     |
| 231                        | Biostatistics – BCH – 09 – (CBCS Pattern)                    | II  |
| 232                        | Biostatistics – BCH – 8 (Revised)                            | II  |
| 233                        | Clinical Biochemistry – BCH -20 (Revised)                    | IV  |
|                            | <b>CLINICAL RESEARCH</b>                                     |     |
| 234                        | Pre Clinical Studies – CRT – 202 – (CBCS Pattern)            | II  |
| 235                        | Pre Clinical Studies – CRT – 202 (Revised)                   | II  |
| 236                        | Audit & Inspection – CRT – 402 (Revised)                     | IV  |
|                            | <b>HERBAL MEDICINE</b>                                       |     |
| 237                        | Plant Biochemistry-VII (CBCS Pattern)                        | II  |
| 238                        | Plant Biochemistry (Revised)                                 | II  |
| 239                        | Herbal Cosmetic –XIV (Revised)                               | IV  |
| <b>SATURDAY 12-12-2015</b> |  |     |
|                            | <b>BIOTECHNOLOGY</b>   |     |
| 240                        | Biochemistry – BT-III (CBCS Pattern)                         | I   |
| 241                        | Microbiology- BTT1-3 (Revised)                               | I   |
| 242                        | Animal Biotechnology-BT-XIII( CBCS)                          | III |
| 243                        | Enzymology & Protein Engg. – BTT3 – 3(Revised)               | III |
|                            | <b>MICROBIOLOGY</b>  |     |
| 244                        | Food & Dairy Agri Microbiology-MB-103 (CBCS Pattern)         | I   |
| 245                        | Food & Dairy Agri Microbiology-MB-104 -MB – 103 (Revised)    | I   |
| 246                        | Microbial Diversity & Extremophiles-MB-303(CBCS)             | III |
| 247                        | Microbial Diversity & Extremophiles-MB-303(Revised)          | III |

| <b>SATURDAY 12-12-2015</b> |  |     |
|----------------------------|--|-----|
|                            | <b>ELECTRONICS</b>   |     |
| 248                        | Digital systems and design –III (CBCS Pattern)             | I   |
| 249                        | Digital & System Design-III (Revised)                      | I   |
| 250                        | Microwave Devices & Measurements-EL-17 (CBCS)              | III |
| 251                        | Microwave Devices & Measurements-XV (Revised)              | III |
|                            | <b>BIO-INFORMATICS</b>                                     |     |
| 252                        | Computing foundations in Bioinfo.-BI-III (CBCS Pattern)    | I   |
| 253                        | Introduction to Bioinformatics – BI – 103 (Revised)        | I   |
| 254                        | System Biology – BI-XIII (CBCS Pattern)                    | III |
| 255                        | Structural Biology & Molecular Modeling-BI-303 (Revised)   | III |
|                            | <b>PHYSICS</b>   |     |
| 256                        | Elect. Devices & Applications-PH-03 (CBCS Pattern)         | I   |
| 257                        | Electronics Devices & Applications – PH – 03(Revised)      | I   |
| 258                        | Basics of Laser & Devices – PH-17 (CBCS Pattern)           | III |
| 259                        | Basics of Laser & Devices – PH-15 (Revised)                | III |
|                            | <b>HERBAL MEDICINE</b>                                     |     |
| 260                        | Cell and Molecular Biology-III(CBCS Pattern)               | I   |
| 261                        | Cell and Molecular Biology-III(Revised)                    | I   |
| 262                        | Fermentation Technology – XIII(CBCS Pattern)               | III |
| 263                        | Fermentation Technology – XI(Revised)                      | III |
|                            | <b>CHEMISTRY</b>   |     |
| 264                        | Physical Chemistry-I-CH-413 (CBCS Pattern)                 | I   |
| 265                        | Physical Chemistry-I-CH-413 (Revised)                      | I   |
|                            | <b>INORGANIC CHEMISTRY</b>                                 |     |
| 266                        | Organo-metallic Chemistry-CH-533/1(CBCS pattern)           | III |
| 267                        | Organo-metallic Chemistry-CH-533/1(Revised)                | III |
|                            | <b>ORGANIC CHEMISTRY</b>                                   |     |
| 268                        | Organic Synthesis –I- CH-533/2 (CBCS)                      | III |
| 269                        | Organic Synthesis – CH-533/2 (Revised)                     | III |
|                            | <b>PHYSICAL CHEMISTRY</b>                                  |     |
| 270                        | Chemical Dynamics – CH-533/3 (CBCS)                        | III |
| 271                        | Chemical Dynamics – CH-533/3 (Revised)                     | III |
|                            | <b>ANALYTICAL CHEMISTRY</b>                                |     |
| 272                        | Chromatography in Chemical Analysis –CH-533/4 (CBCS)       | III |
| 273                        | Chromatography in Chemical Analysis –CH-533/4 (Revised)    | III |
|                            | <b>ZOOLOGY</b>   |     |
| 274                        | Quantitative Biology & Bioinformatics-III (CBCS Pattern)   | I   |
| 275                        | Quantitative Biology & Bioinformatics – Zool-103 (Revised) | I   |
|                            |  |     |

| SATURDAY 12-12-2015 |  |     |
|---------------------|--|-----|
|                     | <b><u>Elective-I</u></b>   |     |
| 276                 | Entomology-I (Insect: Structure & fun-Zool-303A (CBCS) OR        | III |
| 277                 | Fishery Science-I (Fish M.A& Phy-I)-Zool-303B (CBCS) OR          | III |
| 278                 | App. Parasitology-I (Mic.& A.Med.I.)-Zool-303C (CBCS) OR         | III |
| 279                 | Animal Physiology-I (Gen.Physiology-I)-Zool-303D (CBCS)          | III |
|                     |  |     |
| 280                 | Entomology-I (Insect: Structure & fun-Zool-303A (Revised) OR     | III |
| 281                 | Fishery Science-I (Fish M.A& Phy-I)-Zool-303B (Revised) OR       | III |
| 282                 | App. Parasitology-I (Mic.& A.Med.I.)-Zool-303C (Revised) OR      | III |
| 283                 | Animal Physiology-I (Gen.Physiology-I)-Zool-303D (Revised)       | III |
|                     | <b>ENVIRONMENTAL SCIENCE</b>                                     |     |
| 284                 | Wastewater Treatment Technology-Env-403 (CBCS Pattern)           | I   |
| 285                 | Waste Water Treatment Technology-Env – 403 (Revised)             | I   |
| 286                 | Biostatistics & Computational Tech.-Env.-503(CBCS Pattern)       | III |
| 287                 | Biostatistics & Computational Tech.-Env.-503(Revised)            | III |
|                     | <b>MATHEMATICS</b>   |     |
| 288                 | Ordinary Differential Equations- P-III (CBCS Pattern)            | I   |
| 289                 | Topology - I (III) (Revised)                                     | I   |
|                     | <b>Elective-I</b>  |     |
| 290                 | Analytical Number Theory –XV (A) (CBCS Pattern)                  | III |
| 291                 | Theory of Linear Operators -I –XV (B) (CBCS Pattern)             | III |
| 292                 | Fuzzy sets their Applications –XV (C) (CBCS Pattern)             | III |
|                     |  |     |
| 293                 | Difference Equation-I-XV (Revised)                               | III |
|                     | <b>DAIRY SCIENCE</b>   |     |
| 294                 | Dairy Chemistry – I (CBCS Pattern)                               | I   |
| 295                 | Dairy Chemistry – I (Revised)                                    | I   |
| 296                 | Dairy Engineering-II- XIII (CBCS)                                | III |
| 297                 | Dairy Engineering-II- XV (Revised)                               | III |
|                     | <b>BOTANY</b>  |     |
| 298                 | Diversity of seed plants & their systematics-III (CBCS Pattern ) | I   |
| 299                 | Systematic of Angiosperms – III (Revised)                        | I   |
|                     | <b>Elective-I (Botany )</b>                                      |     |
| 300                 | Principles of plant pathology – XIII (A)(CBCS) OR                | III |
| 301                 | Taxonomy & Systematic – XIII (B)(CBCS) OR                        | III |
| 302                 | Seed Biology & Seed Production – XIII (C)(CBCS)                  | III |
| 303                 | Plant Pathology (Prin. of Plant Pathology)-VIIA (Revised) OR     | III |
| 304                 | Angiosperms (Taxonomy and Systematic –I) VIIB (Revised)OR        | III |
| 305                 | Seed Technology (Seeds Sci.& Gen. S. T.I) VIIC (Revised)         | III |

| <b>SATURDAY 12-12-2015</b>    |  |     |
|-------------------------------|--|-----|
| <b>COMPUTER SCIENCE</b>       |  |     |
| 306                           | Design Analysis of Algorithm-CS-103 (CBCS Pattern)     | I   |
| 307                           | Design Analysis of Algorithm – S1-3(Revised)           | I   |
| 308                           | Data Mining & Data Warehousing-CS-303(CBCS)            | III |
| 309                           | Data Mining & Data Warehousing-S3-3(Revised)           | III |
| <b>INFORMATION TECHNOLOGY</b> |  |     |
| 310                           | Programming in C – IT-103 (CBCS Pattern)               | I   |
| 311                           | Programming in C – S1 – 3 (Revised)                    | I   |
| 312                           | VB Net – IT-303 (CBCS)                                 | III |
| 313                           | VB.Net –S3-3 (Revised)                                 | III |
| <b>BIOCHEMISTRY</b>           |  |     |
| 314                           | Bioenergetics & Metabolism-BCH -3 (CBCS Pattern)       | I   |
| 315                           | Bioenergetics & Metabolism – BCH – 3 (Revised)         | I   |
| 316                           | Drugs Metabolism-BCH-17(CBCS Pattern)                  | III |
| 317                           | Fermentation & Food Biotech – BCH – 15 (Revised)       | III |
| <b>CLINICAL RESEARCH</b>      |  |     |
| 318                           | Stat. for Clinical Research-CRT-103 (CBCS Pattern)     | I   |
| 319                           | Statistics for Clinical Research – CRT – 103 (Revised) | I   |
| 320                           | Special Regulatory Process – CRT – 303 (CBCS Pattern)  | III |
| 321                           | Special Regulatory Process – CRT – 303 (Revised)       | III |
| <b>MONDAY 14-12-2015</b>      |  |     |
| <b>BIOTECHNOLOGY</b>          |  |     |
| 322                           | System Physiology – BT-VIII - (CBCS Pattern)           | II  |
| 323                           | Virology – BTT 2.3 (Revised)                           | II  |
| 324                           | Bioinformatics – BTT4 – 3 (Revised)                    | IV  |
| <b>MICROBIOLOGY</b>           |  |     |
| 325                           | Bioprocess Engineering– MB – 203 (CBCS Pattern)        | II  |
| 326                           | Bioprocess Engineering – MB – 201 (Revised)            | II  |
| 327                           | Environmental Microbiology – MB – 403 (Revised)        | IV  |
| <b>ELECTRONICS</b>            |  |     |
| 328                           | Microprocessor Interfacing Technique - X (CBCS)        | II  |
| 329                           | Microprocessor Interfacing Technique - IX (Revised)    | II  |
| 330                           | Microwave Communication – XXI (Revised)                | IV  |
| <b>PHYSICS</b>                |  |     |
| 331                           | Condensed Matter Physics – PH-10 (CBCS)                | II  |
| 332                           | Condensed Matter Physics – PH-09 (Revised)             | II  |
| 333                           | Microprocessor & Microcontroller – PH – 21(Revised)    | IV  |
|                               |  |     |
|                               |  |     |

| <b>MONDAY 14-12-2015</b>        |   |    |
|---------------------------------|---|----|
| <b>BIOINFORMATICS</b>           |   |    |
| 334                             | Biodiversity & Phylogenetic Analysis-BI-VIII (CBCS)         | II |
| 335                             | Chemo Inform & Biodiversity Informatics-BI-203 (Revised)    | II |
| 336                             | Comparative Genomics and Proteomics-BI-403(Revised)         | IV |
| <b>CHEMISTRY</b>                |   |    |
| 337                             | Physical Chemistry - CH-423 (CBCS Pattern)                  | II |
| 338                             | Physical Chemistry - CH-423 (Revised)                       | II |
| <b>INORGANIC CHEMISTRY</b>      |   |    |
| 339                             | Chemistry of Materials – CH – 543/1 (Revised)               | IV |
| <b>ORGANIC CHEMISTRY</b>        |   |    |
| 340                             | Organic Synthesis – II – CH – 543/2 (Revised)               | IV |
| <b>PHYSICAL CHEMISTRY</b>       |   |    |
| 341                             | Molecular reaction Dynamic & BPChem-CH-543/3 (Revised)      | IV |
| <b>ANALYTICAL CHEMISTRY</b>     |   |    |
| 342                             | Chromatography & O Pin Chem. Analysis-CH- 543/4(Revised)    | IV |
| <b>ZOOLOGY</b>                  |   |    |
| 343                             | Tools & Techniques for Biology- VIII (CBCS)                 | II |
| 344                             | Tools & Techniques for Biology- Zool – 203 (Revised)        | II |
| <b>Elective-III ( Zoology )</b> |   |    |
| 345                             | Entomology-I (Economic Entom)-Zool-403 A (Revised) OR       | IV |
| 346                             | Fishery Science – I (Fish & F.C- I)-Zool-403 B (Revised) OR | IV |
| 347                             | Applied Parasitology – I (T.& C.)-Zool -403 C (Revised) OR  | IV |
| 348                             | Animal Physiology-I (Mam.Physi.-I) -Zool –403D (Revised)    | IV |
| <b>ENVIRONMENTAL SCIENCE</b>    |   |    |
| 349                             | Toxicology & Hazardous Waste Mgt. – Env-410 (CBCS)          | II |
| 350                             | Toxicology & Hazardous Waste Mgt. – Env-409 (Revised)       | II |
| 351                             | Environmental Management – Env.- 509 (Revised)              | IV |
| <b>MATHEMATICS</b>              |   |    |
| 352                             | Partial Differential Equations -IX (CBCS)                   | II |
| 353                             | Topology - II (IX) (Revised)                                | II |
| <b>Elective-IV</b>              |   |    |
| 354                             | Difference Equations – II – XXVIII (Revised)                | IV |
| <b>DAIRY SCIENCE</b>            |   |    |
| 355                             | Dairy Chemistry – II – VIII (CBCS Pattern)                  | II |
| 356                             | Dairy Chemistry – II – VII (Revised)                        | II |
| 357                             | Dairy Plant Management – XIX (Revised)                      | IV |
| <b>BOTANY</b>                   |   |    |
| 358                             | Plant Ecology & Env. Biology & Phytogeography-VIII (CBCS)   | II |
| 359                             | Plant Ecology & Env. Biology – III (Revised)                | II |

| <b>MONDAY 14-12-2015</b> |   |    |     |
|--------------------------|---|----|-----|
|                          | <b>Elective-III</b>   |    |     |
| 360                      | Plant Pathology (Physio. and Mol. P. P.)- I-VII (A) (Revised) | OR | IV  |
| 361                      | Angiosperms (Taxonomy & systemat.)-I-VII(B) (Revised)         | OR | IV  |
| 362                      | Seed Technology (Seed Scie & Gen S.T)-I-VII (C) (Revised)     |    | IV  |
|                          | <b>COMPUTER SCIENCE</b>                                       |    |     |
| 363                      | C # net. – CS-203 (CBCS)                                      |    | II  |
| 364                      | Programming in C # net. – S2-3 (Revised)                      |    | II  |
|                          | <b>Elective-I ( Computer Science)</b>                         |    |     |
| 365                      | Embedded System Design through C & C++ - S4-3A (Revised)      | OR | IV  |
| 366                      | Artificial Intelligence – S4-3B (Revised)                     | OR | IV  |
| 367                      | Introduction to Bioinformatics – S4-3C (Revised)              |    | IV  |
|                          | <b>INFORMATION TECHNOLOGY</b>                                 |    |     |
| 368                      | Management Information System – IT-203 (CBCS)                 |    | II  |
| 369                      | MIS – S2-3 (Revised)  |    | II  |
| 370                      | Web development & PHP Programming S4-3 (Revised)              |    | IV  |
|                          | <b>BIOCHEMISTRY</b>   |    |     |
| 371                      | Bioinformatics & Comp. Technique – BCH -10-(CBCS)             |    | II  |
| 372                      | Bioinformatics & Comp. Technique – BCH -9 (Revised)           |    | II  |
| 373                      | Bio fertilizers & Bio fuels – BCH-21 (Revised)                |    | IV  |
|                          | <b>CLINICAL RESEARCH</b>                                      |    |     |
| 374                      | Pharmaceutical Biotechnology –CRT-203 (CBCS Pattern)          |    | II  |
| 375                      | Pharmaceutical Biotechnology –CRT-203 (Revised)               |    | II  |
| 376                      | Pharmacovigilance & Safety Monitoring – CRT-403 (Revised)     |    | IV  |
|                          | <b>HERBAL MEDICINE</b>  |    |     |
| 377                      | Plant Metabolism & Development –VIII (CBCS Pattern)           |    | II  |
| 378                      | Plant Metabolism & Development (Revised)                      |    | II  |
| 379                      | Drug Standardization & Regulations –XV (Revised)              |    | IV  |
|                          | <b>TUESDAY 15-12-2015</b>                                     |    |     |
|                          | <b>BIOTECHNOLOGY</b>  |    |     |
| 380                      | Techniques in Biology – BT-4 (CBCS Pattern)                   |    | I   |
| 381                      | Bioinstrumentation & Biostatistics-BTT1-4 (Revised)           |    | I   |
| 382                      | Plant & Agriculture Biotechnology-BT-XIV(CBCS)                |    | III |
| 383                      | Plant Biotechnology – BTT3 – 4 (Revised)                      |    | III |
|                          | <b>MICROBIOLOGY</b>   |    |     |
| 384                      | Bioinstrumentation – MB – 104 (CBCS Pattern)                  |    | I   |
| 385                      | Bioinstrumentation -MB-101 (Revised)                          |    | I   |
| 386                      | Biostatistics Comp. Appl. & Res. Meth.-XIV-MB-304(CBCS)       |    | III |
| 387                      | Recombinant DNA technology –MB-304 (Revised)                  |    | III |
|                          |   |    |     |

| <b>TUESDAY 15-12-2015</b>              |  |     |
|--|--|-----|
| <b>ELECTRONICS</b>                     |  |     |
| 388                                    | Programming in C –IV (CBCS Pattern)                          | I   |
| 389                                    | “C” Programming –IV (Revised)                                | I   |
| 390                                    | Advanced Microprocessor & Microcontroller-EL-18 (CBCS)       | III |
| 391                                    | Advanced Microprocessor & Microcontroller-XVI (Revised)      | III |
| <b>BIOINFORMATICS</b>                  |  |     |
| 392                                    | Bioinformatics Fundamentals - BI-IV (CBCS Pattern)           | I   |
| 393                                    | Basic Concepts in Computing – BI -104 (Revised)              | I   |
| 394                                    | Object Oriented Programming – BI-XIV (CBCS Pattern)          | III |
| 395                                    | Biological Database Management –BI -304 (Revised)            | III |
| <b>PHYSICS</b>                         |  |     |
| 396                                    | Atomic & Molecular Physics – PH-04 (CBCS Pattern)            | I   |
| 397                                    | Atomic & Molecular Physics – PH-04 (Revised)                 | I   |
| 398                                    | Thin Film & Nano Physics – PH-18(A) (CBCS Pattern) <b>OR</b> | III |
| 399                                    | Material Science - PH-18(B) (CBCS Pattern) <b>OR</b>         | III |
| 400                                    | Modern Digital Communication- PH-18(C) (CBCS Pattern)        | III |
| 401                                    | Thin Film & Nano Physics – PH-16 (Revised)                   | III |
| <b>HERBAL MEDICINE</b>                 |  |     |
| 402                                    | Modern Analytical Technique –IV (CBCS Pattern)               | I   |
| 403                                    | Modern Analytical Technique –IV (Revised)                    | I   |
| 404                                    | Herbal Drug Technology –XIV (CBCS Pattern)                   | III |
| 405                                    | Herbal Drug Technology –XI (Revised)                         | III |
| <b>CHEMISTRY</b>                       |  |     |
| 406                                    | Physical methods in Chem.-I-CH-414 (CBCS Pattern)            | I   |
| 407                                    | Physical methods in Chemistry-I-CH-414 (Revised)             | I   |
| <b>INORGANIC CHEMISTRY</b>             |  |     |
| 408                                    | Analytical Chemistry – CH-534/1 (CBCS)                       | III |
| 409                                    | Analytical Chemistry – CH-534/1 (Revised)                    | III |
| <b>ORGANIC CHEMISTRY</b>               |  |     |
| 410                                    | Medicinal Chemistry – CH-534/2A (CBCS)                       | III |
| 411                                    | Polymer Chemistry – CH-534/2B (CBCS)                         | III |
| 412                                    | Medical Chemistry – CH-534/2A (Revised)                      | III |
| 413                                    | Polymer Chemistry – CH-534/2B (Revised)                      | III |
| <b>PHYSICAL CHEMISTRY ( Elective )</b> |  |     |
| 414                                    | Statistical Thermodynamics – CH-534/3A (CBCS) <b>OR</b>      | III |
| 415                                    | Advanced Quantum Chemistry – CH-534/3B (CBCS)                | III |
| 416                                    | Statistical Thermodynamics – CH-534/3A (Revised) <b>OR</b>   | III |
| 417                                    | Advanced Quantum Chemistry – CH-534/3B (Revised)             | III |

| <b>TUESDAY 15-12-2015</b> |  |     |
|---------------------------|--|-----|
|                           | <b>ANALYTICAL CHEMISTRY</b>  |     |
| 418                       | Instrumental Methods of Chem. Analysis-CH-534/4 (CBCS)   | III |
| 419                       | Instrumental Methods of Chem. Analysis-CH-534/4 (Revised)  | III |
|                           | <b>ZOOLOGY</b>   |     |
| 420                       | Economics Zoology & Animal Behaviour-IV (CBCS Pattern)   | I   |
| 421                       | Economics Zoology & Animal Behaviour -zool-104 (Revised)   | I   |
|                           | <b>ZOOLOGY</b>   |     |
|                           | <b>Elective-II</b>   |     |
| 422                       | Entomology-II (Insec. Tax.I.D.& ecology )-Zool-304 A (CBCS) OR   | III |
| 423                       | Fishery Science-II ( Fish mor.,A. & Phy.-II)Zool-304B (CBCS) OR  | III |
| 424                       | Applied Parasitology-II (Protoz. & A.M.I.) Zool-304C (CBCS) OR   | III |
| 425                       | General Physiology-II Zool-304D (CBCS)   | III |
| 426                       | Entomology-II (Insec. Tax.I.D.& ecology )-Zool-304A (Revised) OR   | III |
| 427                       | Fishery Science-II ( Fish mor.,A. & Phy.-II)Zool-304B (Revised) OR   | III |
| 428                       | Applied Parasitology-II (Protoz. & A.M.I.) Zool-304C (Revised) OR  | III |
| 429                       | General Physiology-II (Gen.Physiology-II) Zool-304D ( <b>Revised</b> )   | III |
|                           | <b>ENVIRONMENTAL SCIENCE</b>   |     |
| 430                       | Natural Resources Utilization&Mgmt.Env-404 ( <b>CBCS Pattern</b> )   | I   |
| 431                       | Natural Resources Utilization & Mgmt Env – 404 (Revised)   | I   |
| 432                       | Soil Pollution and Solid waste Management (CBCS) (A)<br>OR<br>Environmental Geology & Hazards –ENV-504 (CBCS)(B) | III |
| 433                       | Soil Pollution & Solid Waste Mgmt.-Env.-504(Revised)   | III |
|                           | <b>MATHEMATICS</b>   |     |
| 434                       | Complex Analysis-I (CBCS Pattern)  | I   |
| 435                       | Complex Analysis-I (Revised)   | I   |
| 436                       | <b>Elective for any one</b>  |     |
| 437                       | Fluid Mechanics –I- XVI – (A) (CBCS Pattern) OR  | III |
| 438                       | Difference Equations –I - XVI (B) (CBCS Pattern) OR  | III |
| 439                       | Mathematical Software –I – XVI(C) (CBCS Pattern) OR  | III |
| 440                       | Fluid Mechanics –I- XVI (Revised)  | III |
|                           | <b>DAIRY SCIENCE</b>   |     |
| 441                       | Dairy Technology – I (CBCS Pattern) (IV)   | I   |
| 442                       | Dairy Technology – I ( Revised )   | I   |
| 443                       | Dairy Business Mgmt. & Co-operation-XIV (CBCS)   | III |
| 444                       | Dairy Business Mgmt. & Co-operation-XVI (Revised)  | III |



| <b>TUESDAY 15-12-2015</b>   |   |     |
|-----------------------------|---|-----|
|                             | <b>BOTANY</b>   |     |
| 445                         | Plant Structure & Developmental Biology-IV (CBCS Pattern)             | I   |
| 446                         | Structure,Development & Reprod. in Flow.Plants-IV ( Revised )         | I   |
|                             | <b>Elective-II</b>  |     |
| 447                         | Basic plant pathology & plant Diseases - XIV (A) (CBCS) OR            | III |
| 448                         | Anatomy and Pharmacognosy – XIV (B) (CBCS Pattern) OR                 | III |
| 449                         | Seed infection and seed borne diseases – XIV (C) (CBCS)               | III |
| 450                         | Plant Pathology (Basic Plat. Path. & M.P.Dis.)-VIII A (Revised)<br>OR | III |
| 451                         | Angiosperms (Plant Anatomy & Pharma.-I)-VIII B (Revised) OR           | III |
| 452                         | Seed Tech. (Seed Path.& S. Health Mgt-I)-VIII C (Revised)             | III |
|                             | <b>COMPUTER SCIENCE</b>   |     |
| 453                         | Distributed Database Concepts-CS-104 (CBCS Pattern)                   | I   |
| 454                         | Distributed Database Concepts-S1-4 (Revised)                          | I   |
| 455                         | Digital Image Processing Using MATLAB-CS-304 (CBCS)                   | III |
| 456                         | Digital Image Processing Using MATLAB-S3-4 (Revised)                  | III |
|                             | <b>INFORMATION TECHNOLOGY</b>   |     |
| 457                         | DBMS – IT-104 (CBCS Pattern)  | I   |
| 458                         | DBMS – S1-4 (Revised)   | I   |
| 459                         | RDBMS through Oracle 10G – IT-304 (CBCS)                              | III |
| 460                         | RDBMS through Oracle 10G – S3-4 (Revised)                             | III |
|                             | <b>BIOCHEMISTRY</b>   |     |
| 461                         | Immunology – BCH – 4 (CBCS Pattern)                                   | I   |
| 462                         | Immunology – BCH – 4 (Revised)  | I   |
| 463                         | Hormonal Biochemistry BCH-18 (CBCS Pattern)                           | III |
| 464                         | Cosmetic Chemistry – BCH – 16 (Revised)                               | III |
|                             | <b>CLINICAL RESEARCH</b>  |     |
| 465                         | Basics of Phar. Drug dis. & Develop.-CRT-104 (CBCS Pattern)           | I   |
| 466                         | Basics of Phar. Drug dis. & Develop. – CRT – 104 (Revised)            | I   |
| 467                         | Pharmacogenomics – CRT – 304(CBCS Pattern)                            | III |
| 468                         | Pharma Cogenomics – CRT – 304 (Revised)                               | III |
| <b>WEDNESDAY 16-12-2015</b> |   |     |
|                             | <b>BIOTECHNOLOGY</b>  |     |
| 469                         | Process Biotechnology – BT-IX - (CBCS Pattern)                        | II  |
| 470                         | Process Biotechnology – BTT2 – 4 (Revised)                            | II  |
| 471                         | Environmental Biotechnology – BTT4 – 4 (Revised)                      | IV  |
|                             | <b>MICROBIOLOGY</b>   |     |
| 472                         | Enzyme Technology– MB – 204 (CBCS Pattern)                            | II  |
| 473                         | Enzyme Technology – MB – 202 (Revised)                                | II  |

|                              |  |    |
|------------------------------|--|----|
| 474                          | Fermentation Technology – MB – 404 (Revised)                             | IV |
| <b>WEDNESDAY 16-12-2015</b>  |  |    |
| <b>ELECTRONICS</b>           |  |    |
| 475                          | Numerical methods (with Algo.& Prog.in 'C') –XI (CBCS)                   | II |
| 476                          | Numerical methods (with Algo.& Prog.in 'C') –X (Revised)                 | II |
| 477                          | Integrated Circuit Techniques - XXII (Revised)                           | IV |
| <b>BIOINFORMATICS</b>        |  |    |
| 478                          | Programming in Using Language C –BI-IX - (CBCS Pattern)                  | II |
| 479                          | Programming in C –BI-204 (Revised)                                       | II |
| 480                          | Genome to Drug and Vaccine-BI-404(Revised)                               | IV |
| <b>PHYSICS</b>               |  |    |
| 481                          | Numerical Techniques – PH-11 (CBCS)                                      | II |
| 482                          | Numerical Techniques – PH-10 (Revised)                                   | II |
| 483                          | Energy Physics – PH-22 (Revised)   | IV |
| <b>CHEMISTRY</b>             |  |    |
| 484                          | Principles of Spectroscopy – CH-424(CBCS Pattern)                        | II |
| 485                          | Principles of Spectroscopy – CH-424(Revised)                             | II |
| <b>INORGANIC CHEMISTRY</b>   |  |    |
| 486                          | Nuclear and radiation Chemistry – CH-544/1(Revised)                      | IV |
| <b>ORGANIC CHEMISTRY</b>     |  |    |
| 487                          | Medicinal Chemistry – CH-544/2A (Revised) <b>OR</b>                      | IV |
| 488                          | Polymer Chemistry – CH-544/2B (Revised)                                  | IV |
| <b>PHYSICAL CHEMISTRY</b>    |  |    |
| 489                          | Electro Chemistry – CH-544/3A (Revised) <b>OR</b>                        | IV |
| 490                          | Liquid state – CH-544/3B (Revised)                                       | IV |
| <b>ANALYTICAL CHEMISTRY</b>  |  |    |
| 491                          | Instrumental methods of Chemical analysis-CH-544/4(Revised)              | IV |
| <b>ZOOLOGY</b>               |  |    |
| 492                          | Biochemistry & Immunology – IX (CBCS)                                    | II |
| 493                          | Biochemistry & Immunology – Zool-204 (Revised)                           | II |
| <b>Elective-IV</b>           |  |    |
| 494                          | Entomology-II (Agri.Entomol & P.M.)-Zool-404 A (Revised) <b>OR</b>       | IV |
| 495                          | Fishery Science – II(Fish & Fish Cul.-II) Zool-404 B (Revised) <b>OR</b> | IV |
| 496                          | Applied Parasitology-II(Anti.Net.& P.N) Zool-404 C (Revised) <b>OR</b>   | IV |
| 497                          | Animal Physiology-II(Mam.Physiol.-II)) Zool –404 D (Revised)             | IV |
| <b>ENVIRONMENTAL SCIENCE</b> |  |    |
| 498                          | Instrumental Techniques in Envi.Analysis-Env.-411(CBCS)                  | II |
| 499                          | Instrumental Techniques in Envi.Analysis-Env.-410(Revised)               | II |
| 500                          | Energy Resource Management – Env.-510 (Revised)                          | IV |
|                              |  |    |

| <b>WEDNESDAY 16-12-2015</b> |   |    |
|-----------------------------|---|----|
|                             | <b>MATHEMATICS</b>  |    |
| 501                         | Complex Analysis – II -X (CBCS)   | II |
| 502                         | Complex Analysis – II -X (Revised)  | II |
|                             | <b>Elective-V</b>   |    |
| 503                         | Fluid Mechanics – II- XXIX (Revised)                                      | IV |
|                             | <b>DAIRY SC IENCE</b>   |    |
| 504                         | Dairy Technology – II- IX (CBCS Pattern)                                  | II |
| 505                         | Dairy Technology – II- VIII (Revised)                                     | II |
|                             | <b>BOTANY</b>   |    |
| 506                         | Plant Resources & Utilization & Conservation – IX (CBCS)                  | II |
| 507                         | Plant Resources & Utilization – IV (Revised)                              | II |
|                             | <b>Elective-IV</b>  |    |
| 508                         | Plant Pathology (Diseases of Crop. Plants)-II- VIII A (Revised) <b>OR</b> | IV |
| 509                         | Angiosperms (Plant Anat. & Pharmac.)-II-VIII B (Revised) <b>OR</b>        | IV |
| 510                         | Seed Technology (Seed Path. & Seed H.M.)-II-VIII C (Revised)              | IV |
|                             | <b>BIOCHEMISTRY</b>   |    |
| 511                         | Biophysical Technique – BCH-11- (CBCS Pattern)                            | II |
| 512                         | Biophysical Technique – BCH-10 (Revised)                                  | II |
| 513                         | Total Quality Management – BCH-22 (Revised)                               | IV |
|                             | <b>COMPUTER SCIENCE</b>   |    |
| 514                         | Compiler Design –CS-204 (CBCS)  | II |
| 515                         | Compiler Designing –S2-4 (Revised)  | II |
|                             | <b>INFORMATION TECHNOLOGY</b>   |    |
| 516                         | Multimedia Technology – IT-204 (CBCS )                                    | II |
| 517                         | Multimedia Technology – S2-4 (Revised)                                    | II |
|                             | <b>CLINICAL RESEARCH</b>  |    |
| 518                         | Basics of Mol. Biology & Biotech.- CRT-204 – (CBCS Pattern)               | II |
| 519                         | Basics of Mol. Biology & Biotech.- CRT-204 (Revised)                      | II |
| 520                         | Reporting & Medical Writing – CRT-404 (Revised)                           | IV |
|                             | <b>HERBAL MEDICINE</b>  |    |
| 521                         | Immunology & Microbiology – IX – (CBCS Pattern)                           | II |
| 522                         | Immunology & Microbiology – VIII (Revised)                                | II |
|                             | <b>THURSDAY 17-12-2015</b>  |    |
|                             | <b>MATHEMATICS</b>  |    |
|                             | <b>Elective-I</b>   |    |
| 529                         | Discrete Mathematics – V (A) (CBCS Pattern)                               | I  |
| 530                         | Dynamics & Continuum Mechanics-V (B) (CBCS Pattern)                       | I  |
| 531                         | Theory of Probability – V (C) (CBCS Pattern)                              | I  |
| 532                         | Differential Geometry of manifolds-V (D) (CBCS Pattern)                   | I  |

|       |  |     |
|-------|--|-----|
|       | <b>Elective-I</b>  |     |
| 532/A | Differential Equation – V (A) (Revised)                            | I   |
| 533   | Advanced Discrete Mathematics – V (B) (Revised)                    | I   |
| 534   | Differential Geometry of manifolds – V (C) (Revised)               | I   |
| 535   | Dynamics and Continuum Mechanics – V (D) (Revised)                 | I   |
|       | <b>Elective-III (Elective-any one)</b>                             |     |
|       |  |     |
| 536   | Integral Transforms – XVII (A) (CBCS Pattern) OR                   | III |
| 537   | Wave Propagation-I –XXIII(B) (CBCS Pattern) OR                     | III |
| 538   | Fractional Calculus and its applications-XXIII(C)(CBCS Pattern) OR | III |
| 539   | Analytical Number Theory-I- XVII (Revised)                         | III |
|       | <b>Computer Science ( Elective III )</b>                           |     |
| 539/1 | Advanced operating system Elective III CS – 305 (CBCS) OR          | III |
| 539/2 | Mobile programming (CBCS) Elective – III CS 305 OR                 | III |
| 539/3 | Research Methodology Elective III ( 305 ) (3)                      | III |
|       | <b>Information Technology</b>                                      |     |
| 539/4 | Digital Image processing Elective III IT ( 305 ) ( I ) (CBCS)      | III |
| 539/5 | Cloud computing Elective III IT ( 305 ) (2) (CBCS)                 | III |
| 539/6 | Data Mining Elective III IT (305) ( 3 ) (CBCS )                    | III |
|       | <b>FRIDAY 18-12-2015</b>   |     |
|       | <b>INFORMATION TECHNOLOGY</b>                                      |     |
|       | <b>Elective</b>  |     |
| 523   | Web Designing- IT-205(A)   | II  |
| 524   | Information Security -IT-205(B)                                    | II  |
| 525   | Cyber Law and Cyber Ethics -IT-205(C)                              | II  |
|       | <b>COMPUTER SCIENCE</b>  |     |
|       | <b>Elective (II) ( CBCS)</b>                                       |     |
| 526   | Discrete Event System Simulation-CS-205(A) OR                      | II  |
| 527   | Distributed Computing CS-205(B) OR                                 | II  |
| 528   | Network Programming CS-205(C)                                      | II  |
|       |  |     |
|       | <b>MATHEMATICS</b>   |     |
|       | <b>Elective-II</b>   |     |
| 540   | Combinatorics –XI (A) (CBCS)                                       | II  |
| 541   | Dyanamics & Continuum Mechanics –II-XI (B) (CBCS)                  | II  |
| 542   | Operation Research – XI (C) (CBCS)                                 | II  |
| 543   | Differential Geometry of Manifolds-II-(D) (CBCS)                   | II  |

|                                   |   |     |
|-----------------------------------|---|-----|
|                                   | <b>Elective-II</b>  |     |
| 544                               | Differential Equation – XI A (Revised)                    | II  |
| 545                               | Advanced Discrete Mathematics – XI (B) (Revised)          | II  |
| 546                               | Differential Geometry of manifolds – XI (C) (Revised)     | II  |
| 547                               | Dynamics and Continuum Mechanics – XI (D) (Rev)           | II  |
|                                   | <b>Elective-VI (Elective-V)</b>                           |     |
| 548                               | Analytical Number Theory II – XXX (Revised)               | IV  |
| <b>SATURDAY 19-12-2015</b>        |   |     |
|                                   | <b>MATHEMATICS</b>  |     |
|                                   | <b>Elective-III</b>                                       |     |
| 549                               | Integral Equations- XX (Revised)                          | III |
| <b>MONDAY 21-12-2015</b>          |   |     |
|                                   | <b>MATHEMATICS</b>  |     |
|                                   | <b>Elective-VI</b>  |     |
| 550                               | Boundary Value Problems – XXXIII (Revised)                | IV  |
| <b>TUESDAY 22-12-2015</b>         |   |     |
|                                   | <b>MATHEMATICS</b>  |     |
| 551                               | Programming in C-XXI (Rev) (Time:2.00pm to 4.00pm)        | III |
| <b>WEDNESDAY 23-12-2015</b>       |   |     |
|                                   | <b>MATHEMATICS</b>  |     |
| 552                               | Programming in C – XXXIV (Time:- 2.00pm to 4.00pm)        | IV  |
| <b>SATURDAY 26-12-2015</b>        |   |     |
|                                   | <b>MATHEMATICS</b>  |     |
|                                   | <b>(Equivalence given for Old Syllabus students only)</b> |     |
| 553                               | Fuzzy Sets & their Applications-I- XVIII (Revised)        | III |
| <b>MONDAY 28-12-2015</b>          |   |     |
|                                   | <b>MATHEMATICS</b>  |     |
| 554                               | Fuzzy Sets & their Applications-II- XXXI (Revised)        | IV  |
| <b>TUESDAY 29-12-2015</b>         |   |     |
|                                   | <b>MATHEMATICS</b>  |     |
| 555                               | Wave Propagation – I – XIX (Revised)                      | III |
| <b>WEDNESDAY 30-12-2015</b>       |   |     |
|                                   | <b>MATHEMATICS</b>  |     |
| 556                               | Wave Propagation – II – XXXII (Revised)                   | IV  |
| <b>CONTROLLER OF EXAMINATIONS</b> |   |     |

