



# PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR

## REVISED DRAFT PROGRAM OF B.Sc. SEMESTER – I TO VI OCT/NOV.-2025 EXAMINATION TO BE HELD IN SEPT. 2025

1. Students should see their Seat No. and Name in the Name list and mistakes if any should be communicated to this office immediately. All candidates are requested to confirm their Examination Seat No. as well as place of examination on the Notice Board of the University/College mentioned below at least two days before the date of Examination. The candidate should write correct Seat No. on each Answer Book. If candidate writes wrong Seat No. on Answer Book the performance of such subject will not be considered.
2. Candidates are requested to be present at their respective places of examinations **FIFTEEN MINUTES** before the time starting of the first paper and **TEN MINUTES** before the time of starting of each subsequent paper. Candidates are forbidden to take any book or paper into the Examination Hall.
3. (**Important Note:** Code Numbers given in the Bracket are Computer Code of respective Subjects, Students should mention these Code Numbers on Answer Books with Name of the Subject. Also write these Code Numbers on JSR (Junior Supervisor Report) and related documents)
4. All the Candidates are asked to follow the timely instructions given by University in accordance with the examinations methodology.
५. As per the Rights of Person with Disabilities Act-2016 the persons with Disabilities are given 20 minutes extra for one per hour for the Online/Offline exam. (केंद्र शासनाच्या अपंग व्यक्ती अधिकार अधिनियम २०१६ मधील तरतुदीनुसार अपंग विद्यार्थ्यांना ऑनलाईन व ऑफलाईन परीक्षेमध्ये सर्वसाधारण विद्यार्थ्यांपेक्षा १ तासाला कमीत कमी २० मिनीट इतका वेळ वाढवून देण्यास सर्वानुमते मान्यता देण्यात आली.)

### The Centers and places of the Examinations will be as under.

| Sr. No. | Center     | College Abbreviation | Place                                                          |
|---------|------------|----------------------|----------------------------------------------------------------|
| 1       | SOLAPUR    | DBF                  | D.B.F. Dayanand College of Arts & Science                      |
| 2       |            | VASU                 | Vasundhara Arts College                                        |
| 3       | KANDALGAON | ASCENT               | Ascent College, Kandalgaon                                     |
| 4       |            | LBP                  | L.B.P. Mahila Mahavidyalaya                                    |
| 5       |            | DAV                  | DAV Velankar College, Solapur                                  |
| 6       | PANDHARPUR | KBP                  | K.B.P. Mahavidyalaya                                           |
| 7       |            | SKMC                 | Shrikurshan Mahavidyalaya, Chale                               |
| 8       | BARSHI     | SBZ                  | Shriman Bhausaheb Zadbuke Mahavidyalaya                        |
| 9       |            | SMB                  | Shri. Shivaji Mahavidyalaya                                    |
| 10      |            | SPPCG                | Sau. Prematai Patil Arts, Commerce & Science College, Gaudgaon |
| 11      | SHELGAON   | HCCB                 | Hemuji Chandele College, Shelgaon (R)                          |
| 12      | SANGOLA    | GDMAS                | Dr. Ganpatrao Deshmukh Mahavidyalaya,                          |
| 13      |            | SANG                 | Sangola College, Sangola                                       |
| 14      |            | DASPM                | Dipak Aba Salunkhe-Patil Mahavidyalaya, Kole                   |
| 15      | AKLUJ      | SMM                  | Shankarrao Mohite Mahavidyalaya                                |
| 16      | MALSHIRAS  | SGAC                 | Sameer Gandhi Kala Mahavidyalaya                               |
| 26      |            | SMK                  | Shivshambho Mahavidyalaya Kanher, Malshiras                    |
| 27      | KARMALA    | YCMK                 | Yashwantrao Chavan Mahavidyalaya                               |

| Sr. No. | Center      | College Abbreviation | Place                                                              |
|---------|-------------|----------------------|--------------------------------------------------------------------|
| 17      | MANGALWEDHA | MMP                  | Madansinh Mohite-Patil Sci. Mahavidyalaya                          |
| 18      |             | SDM                  | Sant Damaji Mahavidyalaya                                          |
| 19      |             | DMKG                 | Shikshan Prasarak Mandal, (Dalit Mittr Kadam Guruji Mahavidyalaya) |
| 20      | KURDUWADI   | KNB                  | K.N.Bhise College                                                  |
| 21      | ANGAR       | BPCAS                | Baburao Patil College                                              |
| 22      | WADALA      | MMW                  | Mauli Mahavidyalaya                                                |
| 23      | MANDRUP     | SBPC                 | Santosh Bhimrao Patil College                                      |
| 24      | Mohol       | DSG                  | D.S. Garad Mahavidyalaya                                           |
| 25      | MADHA       | ACCM                 | Rayat Shikshan Sanhita Arts & Commerce College                     |
| 28      | AKKALKOT    | CBK                  | C.B.Khedgi's College                                               |
| 29      | NATEPUTE    | SMSMPM               | S.M. Shankarrao Mohite Patil College                               |

- वरील तक्त्यात दर्शविलेल्या परीक्षा केंद्रा व्यतिरिक्त प्रथम वर्ष अभ्यासक्रमासाठी संबंधित महाविद्यालयास परीक्षा केंद्र देण्यात आलेले आहे. त्यानुसार पुढील योग्य ती कार्यवाही करण्यात यावी.

**The Written Examination will be conducted in the following order**

| <b>B.Sc. Sem –II (NEW w.e.f. June 2022)</b><br><b>(CBCS Pattern-2022)</b> |        |                                                                            |         |                         |                                                                           |
|---------------------------------------------------------------------------|--------|----------------------------------------------------------------------------|---------|-------------------------|---------------------------------------------------------------------------|
| Day & Date                                                                | Sr. No | Subject<br>Time: 12:00p.m.to2:00p.m                                        | Sr. No. | Day & Date              | Subject<br>Time:3:00p.m.to 5:00p.m                                        |
| Monday<br>13/10/2025                                                      | 1      | English (Comp.)(22221201)<br>Communication Skill                           | --      | -                       |                                                                           |
| Tuesday<br>14/10/2025                                                     | 2      | CHEMISTRY Paper–III(22221208)<br>Organic Chemistry                         | 3       | Tuesday<br>14/10/2025   | COMPUTER SCIENCE Paper-III<br>(22221229)<br>Introduction to Web Designing |
| Wednesday<br>15/10/2025                                                   | 4      | CHEMISTRY Paper–IV (22221209)<br>Analytical Chemistry                      | 5       | Wednesday<br>15/10/2025 | COMPUTER SCIENCE Paper–IV<br>(22221230) Operating System                  |
| Thursday<br>16/10/2025                                                    | 6      | PHYSICS Paper-III(22221205)<br>Heat and Thermodynamics                     | 7       | Thursday<br>16/10/2025  | MICROBIOLOGY Paper–III(22221220)<br>Microbial Metabolism and Cultivation  |
| Friday<br>17/10/2025                                                      | 8      | PHYSICS Paper-IV(22221206)<br>Electricity, Magnetism and Basic Electronics | 9       | Friday<br>17/10/2025    | MICROBIOLOGY Paper–IV(22221221)<br>Applied Microbiology                   |
| Saturday<br>18/10/2025                                                    | 10     | STATISTICS Paper–III(22221211)<br>Descriptive Statistics-II                | 11      | Saturday<br>18/10/2025  | ZOOLOGY Paper–III(22221232)<br>Comparative Anatomy Of Vertebrates         |
| Friday<br>24/10/2025                                                      | 12     | STATISTICS Paper–IV (22221212)<br>Discrete Probability Distribution        | 13      | Friday<br>24/10/2025    | ZOOLOGY Paper–IV(22221233)<br>Developmental Biology of vertebrates        |
| Saturday<br>25/10/2025                                                    | 14     | MATHEMATICS Paper–<br>III(22221223)<br>Geometry                            | 15      | Saturday<br>25/10/2025  | BOTANY Paper–III(22221202)<br>Plant Ecology                               |
| Monday<br>27/10/2025                                                      | 16     | MATHEMATICS Paper-IV(22221224)<br>Differential Equations                   | 17      | Monday<br>27/10/2025    | BOTANY Paper–IV (22221203)<br>Taxonomy of Angiosperms                     |
| Tuesday<br>28/10/2025                                                     | 18     | ELECTRONICS Paper–III(22221226)<br>Semiconductor Devices                   | 19      | Tuesday<br>28/10/2025   | PSYCHOLOGY Paper–III(22221217)<br>Fundamental Psychology                  |
|                                                                           | 20     | PHYSICAL GEOGRAPHY Paper–<br>III(22221235) Human Geography I               | 21      |                         | GEOLOGY Paper–III(22221214)<br>STRUCTURAL GEOLOGY                         |
| Wednesday<br>29/10/2025                                                   | 22     | ELECTRONICS Paper–IV (22221227)<br>Digital Electronics                     | 24      | Wednesday<br>29/10/2025 | PSYCHOLOGY Paper–IV(22221218)<br>Developmental Psychology                 |
|                                                                           | 23     | PHYSICAL GEOGRAPHY Paper–<br>IV(22221236)<br>Human Geography II            | 25      |                         | GEOLOGY Paper–IV(22221215)<br>CRYSTALLOGRAPHY                             |

| <b>B.Sc. Sem -III (NEW w.e.f.June2023)</b><br><b>(CBCSPattern-2022)</b> |        |                                                                       |                         |        |                                                                                                     |
|-------------------------------------------------------------------------|--------|-----------------------------------------------------------------------|-------------------------|--------|-----------------------------------------------------------------------------------------------------|
| Day & Date                                                              | Sr. No | Subject<br>Time: 09:00 a.m. to 11:00 a.m.                             | Day & Date              | Sr. No | Subject<br>Time: 09:00 a.m. to 11:00 a.m.                                                           |
| Tuesday<br>30/09/2025                                                   | 26     | CHEMISTRY Paper-V (22221330)<br>Organic Chemistry                     | Wednesday<br>01/10/2025 | 27     | COMPUTER SCIENCE Paper-V<br>(22221320) Data Structure                                               |
| Friday<br>03/10/2025                                                    | 28     | CHEMISTRY Paper-VI (22221331)<br>Inorganic Chemistry                  | Saturday<br>04/10/2025  | 29     | COMPUTER SCIENCE Paper-VI<br>(22221321)<br>Software Engineering                                     |
| Monday<br>06/10/2025                                                    | 30     | PHYSICS Paper-V (22221304)<br>General Physics and Sound               | Tuesday<br>07/10/2025   | 31     | BIO-CHEMISTRY Paper-I (22221306)<br>Biomolecules                                                    |
|                                                                         |        |                                                                       |                         | 32     | PLANTPROTECTION Paper-V<br>(22221312)<br>Major crops and methods of<br>integrated plant protection. |
| Wednesday<br>08/10/2025                                                 | 33     | PHYSICS Paper-VI (22221305)<br>Electronic Devices and<br>Applications | Thursday<br>09/10/2025  | 34     | BIO-CHEMISTRY Paper-<br>II (22221307)<br>Biochemical Techniques                                     |
|                                                                         |        |                                                                       |                         | 35     | PLANTPROTECTION Paper-VI<br>(22221313)<br>Crop Disease and their management                         |
| Friday<br>10/10/2025                                                    | 36     | STATISTICS Paper-V (22221308)<br>Probability Distributions            | Saturday<br>11/10/2025  | 37     | METEOROLOGY Paper-I<br>(22221326)<br>Climatology                                                    |
|                                                                         |        |                                                                       |                         | 38     | GEO-CHEMISTRY Paper-II (22221328)<br>Introduction to Geochemistry                                   |
|                                                                         |        |                                                                       |                         | 39     | ZOOLOGY Paper-V (22221322)<br>Cell Biology                                                          |
| Monday<br>13/10/2025                                                    | 40     | STATISTICS Paper-VI (22221309)<br>Statistical Methods-I               | Tuesday<br>14/10/2025   | 41     | METEOROLOGY Paper-<br>II (22221327)<br>General Meteorology                                          |
|                                                                         |        |                                                                       |                         | 42     | GEO-CHEMISTRY Paper-<br>II (22221329)<br>Introduction to Solar System and<br>Geo-Spheres            |
|                                                                         |        |                                                                       |                         | 43     | ZOOLOGY Paper-VI (22221323)<br>Principles of Ecology                                                |
| Wednesday<br>15/10/2025                                                 | 44     | MATHEMATICS Paper-V<br>(22221316)<br>Differential Calculus            | Thursday<br>16/10/2025  | 45     | BOTANY Paper-V (22221302)<br>Plant Anatomy                                                          |
| Friday<br>17/10/2025                                                    | 46     | MATHEMATICS Paper-<br>VI (22221317) Laplace<br>Transform              | Saturday<br>18/10/2025  | 47     | BOTANY Paper-VI (22221303)<br>Plant metabolism                                                      |
| Friday<br>24/10/2025                                                    | 48     | ELECTRONICS Paper-V<br>(22221318)<br>Electronic Circuits              | Saturday<br>25/10/2025  | 50     | GEOLOGY Paper-V (22221310)<br>Mineralogy                                                            |
|                                                                         | 49     | GEOGRAPHY Paper-V<br>(22221324)<br>Climatology                        |                         | 51     | MICROBIOLOGY Paper-<br>V (22221314)<br>Bacterial Cytology, Physiology and<br>Metabolism             |
| Monday<br>27/10/2025                                                    | 52     | ELECTRONICS Paper-VI<br>(22221319)<br>Pulse & Switching Circuits      | Tuesday<br>28/10/2025   | 54     | GEOLOGY Paper-VI (22221311)<br>Igneous Petrology                                                    |
|                                                                         | 53     | GEOGRAPHY Paper- I (22221325)<br>Geography of India                   |                         | 55     | MICROBIOLOGY Paper-VI (22221315)<br>Fundamentals of Bacterial Genetics                              |

| <b>B.Sc.Sem-IV (NEW w.e.f.Nov 2023)</b><br><b>(CBCS Pattern-2022)</b> |               |                                                                                      |                                       |                |                                                                                            |
|-----------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------|---------------------------------------|----------------|--------------------------------------------------------------------------------------------|
| <b>Day &amp; Date</b>                                                 | <b>Sr. No</b> | <b>Subject</b><br><b>Time: 12:00 p.m. to 02:00 p.m.</b>                              | <b>Day &amp; Date</b>                 | <b>Sr. No.</b> | <b>Subject</b><br><b>Time: 03:00 p.m. to 05:00 p.m.</b>                                    |
| <b>Tuesday</b><br><b>30/09/2025</b>                                   | 56            | <b>CHEMISTRY Paper-VII (22221444)</b><br>Physical Chemistry                          | <b>Tuesday</b><br><b>30/09/2025</b>   | 57             | <b>COMPUTER SCIENCE Paper-VII</b><br>(22221429)<br>Core Java                               |
| <b>Wednesday</b><br><b>01/10/2025</b>                                 | 58            | <b>CHEMISTRY Paper-VIII(22221445)</b><br>Analytical & Industrial Inorganic Chemistry | <b>Wednesday</b><br><b>01/10/2025</b> | 59             | <b>COMPUTER SCIENCE Paper-VIII</b><br>(22221430)<br>DBMS Using Oracle                      |
| <b>Friday</b><br><b>03/10/2025</b>                                    | 60            | <b>PHYSICS Paper-VII(22221405)</b><br>Geometrical, Physical and Fiber Optics         | <b>Friday</b><br><b>03/10/2025</b>    | 61             | <b>BIO-CHEMISTRY Paper-III (22221408)</b><br>NUTRITIONANDMETABOLISM                        |
|                                                                       |               |                                                                                      |                                       | 62             | <b>PLANTPROTECTION Paper-VII</b><br>(22221417)<br>Introduction to weeds & non Insect pests |
| <b>Saturday</b><br><b>04/10/2025</b>                                  | 63            | <b>PHYSICS Paper-VIII(22221406)</b><br>Modern Physics                                | <b>Saturday</b><br><b>04/10/2025</b>  | 64             | <b>BIO-CHEMISTRY Paper-IV(22221409)</b><br>MOLECULARBIOCHEMISTRY&DISEASES                  |
|                                                                       |               |                                                                                      |                                       | 65             | <b>PLANTPROTECTION Paper-VIII(22221418)</b><br>Insect pests and their Management.          |
| <b>Monday</b><br><b>06/10/2025</b>                                    | 66            | <b>STATISTICS Paper-VII (22221411)</b><br>Continuous Probability Distributions       | <b>Monday</b><br><b>06/10/2025</b>    | 67             | <b>METEOROLOGY Paper-III(22221438)</b><br>Applied Climatology                              |
|                                                                       |               |                                                                                      |                                       | 68             | <b>GEO-CHEMISTRY Paper-III(22221441)</b><br>Principles of Geochemistry                     |
|                                                                       |               |                                                                                      |                                       | 69             | <b>ZOOLOGY Paper-VII(22221432)</b><br>Fundamentals of Biochemistry                         |
| <b>Tuesday</b><br><b>07/10/2025</b>                                   | 70            | <b>STATISTICS Paper-VIII(22221412)</b><br>Statistical Methods-II                     | <b>Tuesday</b><br><b>07/10/2025</b>   | 71             | <b>METEOROLOGY Paper-IV (22221439)</b><br>Meteorological Instruments                       |
|                                                                       |               |                                                                                      |                                       | 72             | <b>GEO-CHEMISTRY Paper-IV(22221442)</b><br>Chemistry of the Earth                          |
|                                                                       |               |                                                                                      |                                       | 73             | <b>ZOOLOGY Paper-VIII(22221433)</b><br>Physiology Control & Coordination                   |
| <b>Wednesday</b><br><b>08/10/2025</b>                                 | 74            | <b>MATHEMATICS Paper-VII (22221423)</b><br>Differential Equations                    | <b>Wednesday</b><br><b>08/10/2025</b> | 75             | <b>BOTANY Paper-VII (22221402)</b><br>Plant Physiology                                     |
| <b>Thursday</b><br><b>09/10/2025</b>                                  | 76            | <b>MATHEMATICS Paper-VIII(22221424)</b><br>AbstractAlgebra-I                         | <b>Thursday</b><br><b>09/10/2025</b>  | 77             | <b>BOTANY Paper-VIII (22221403)</b><br>EMBRYOLOGYOFANGIOSPERMS                             |
| <b>Friday</b><br><b>10/10/2025</b>                                    | 78            | <b>GEOGRAPHY Paper-VII(22221435)</b><br>Economic Geography                           | <b>Friday</b><br><b>10/10/2025</b>    | 80             | <b>PSYCHOLOGY Paper-VII(22221447)</b><br>Cognitive Psychology                              |
|                                                                       | 79            | <b>ELECTRONICS Paper-VII(22221426)</b><br>Operational Amplifier and Applications     |                                       | 81             | <b>GEOLOGY Paper-VII(22221414)</b><br>SEDIMENTARY AND METAMORPHIC PETROLOGY                |
|                                                                       |               |                                                                                      |                                       | 82             | <b>MICROBIOLOGY Paper-VII(22221420)</b><br>Immunology & Medical Microbiology               |
| <b>Saturday</b><br><b>11/10/2025</b>                                  | 83            | <b>GEOGRAPHY Paper-VIII(22221436)</b><br>Environmental Geography                     | <b>Saturday</b><br><b>11/10/2025</b>  | 85             | <b>PSYCHOLOGY Paper-VIII(22221448)</b><br>Positive Psychology                              |
|                                                                       | 84            | <b>ELECTRONICS Paper-VIII(22221427)</b><br>Digital Techniques and Microprocessor     |                                       | 86             | <b>GEOLOGY Paper-VIII(22221415)</b><br>STRATIGRAPHY                                        |
|                                                                       |               |                                                                                      |                                       | 87             | <b>MICROBIOLOGY Paper-VIII(22221421)</b><br>Introduction to Industrial Microbiology        |

| <u>B.Sc.Sem-V (Neww.e.f. June 2024)</u><br>(CBCSPattern-2022) |         |                                                                               |
|---------------------------------------------------------------|---------|-------------------------------------------------------------------------------|
| Day & Date                                                    | Sr. No. | Subject<br>Time: 09:00 a.m.to 11:00 a.m                                       |
| Tuesday<br>23/09/2025                                         | 88      | English (Compulsory) (22221500)<br>Literary Mindscapes–I                      |
|                                                               |         | Special Paper-IX                                                              |
| Wednesday<br>24/09/2025                                       | 89      | Physics Paper-IX (22221509)<br>Mathematical Physics & Statistical Physics     |
|                                                               | 90      | Chemistry Paper-IX(22221505)<br>Physical Chemistry                            |
|                                                               | 91      | Botany Paper-IX (22221501)<br>PLANTSYSTEMATICS                                |
|                                                               | 92      | Zoology Paper-IX(22221513)<br>Molecular Biology                               |
|                                                               | 93      | Mathematics Paper-IX(22221517)<br>Algebra-II                                  |
|                                                               | 94      | Statistics Paper-IX(22221520)<br>Statistical Inference–I                      |
|                                                               | 95      | Geology Paper-IX(22221525)<br>Economic Geology                                |
|                                                               | 96      | Microbiology Paper-IX (22221529)<br>Virology                                  |
|                                                               | 97      | Electronics Paper-IX(22221537)<br>Linear Integrated Circuits and Applications |
|                                                               | 98      | Computer Science Paper-IX (22221533)<br>Data Communication and Networking     |
|                                                               |         | Special Paper–X                                                               |
| Thursday<br>25/09/2025                                        | 99      | Physics Paper-X(22221510)<br>Solid State Physics                              |
|                                                               | 100     | Chemistry Paper-X(22221506)<br>Inorganic Chemistry                            |
|                                                               | 101     | Botany Paper-X(22221502)<br>Genetics                                          |
|                                                               | 102     | Zoology Paper-X(22221514)<br>Principles of Genetics                           |
|                                                               | 103     | Mathematics Paper-X(22221518)<br>Complex Analysis                             |
|                                                               | 104     | Statistics Paper-X(22221521)<br>Probability Distributions                     |
|                                                               | 105     | Geology Paper-X(22221526)<br>Hydrogeology                                     |
|                                                               | 106     | Microbiology Paper-X(22221530)<br>Agricultural Microbiology                   |
|                                                               | 107     | Electronics Paper-X (22221538)<br>Fundamentals of Microcontroller             |
|                                                               | 108     | Computer Science Paper-X(22221534)<br>Advanced Java                           |

| B.Sc.Sem-V (Neww.e.f.June 2024)(Cont...)<br>(CBCS Pattern-2022) |         |                                                                                              |
|-----------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------|
| Day & Date                                                      | Sr. No. | Subject<br>Time: 09:00 a.m.to 11:00 a.m                                                      |
|                                                                 |         | Special Paper-XI                                                                             |
| Friday<br>26/09/2025                                            | 109     | <b>Physics Paper XI (22221511)</b><br>Classical Mechanics                                    |
|                                                                 | 110     | <b>Chemistry Paper XI (22221507)</b><br>Organic Chemistry                                    |
|                                                                 | 111     | <b>Botany Paper XI (22221503)</b><br>MOLECULARBIOLOGY                                        |
|                                                                 | 112     | <b>Zoology Paper XI (22221515)</b><br>Endocrinology                                          |
|                                                                 | 113     | <b>Mathematics Paper XI (22221519)</b><br>Real Analysis                                      |
|                                                                 | 114     | <b>Statistics Paper XI (22221522)</b><br>Sampling Techniques                                 |
|                                                                 | 115     | <b>Geology PaperXI (22221527)</b><br>Applied Geology–Engineering Geology                     |
|                                                                 | 116     | <b>Microbiology Paper XI (22221531)</b><br>Immunology                                        |
|                                                                 | 117     | <b>Electronics Paper XI (22221539)</b><br>Sensors and Transducers                            |
|                                                                 | 118     | <b>Computer Science Paper XI(22221535)</b><br>Dot Net Core                                   |
|                                                                 |         | SpecialPaper-XII                                                                             |
| Saturday<br>27/09/2025                                          | 119     | <b>Physics Paper XII</b><br>Nuclear Physics(22221512)                                        |
|                                                                 | 120     | <b>Chemistry Paper XII</b><br>Analytical and Industrial Physical Chemistry(22221508-A)<br>OR |
|                                                                 | 121     | Methodology and Materials of Industrial Importance(22221508-B)                               |
|                                                                 | 122     | <b>Botany Paper XII</b><br>Plant Breeding(22221504-A)<br>OR                                  |
|                                                                 | 123     | ECONOMICBOTANY(22221504-B)                                                                   |
|                                                                 | 124     | <b>Zoology Paper XII</b><br>Wildlife Conservation & Management(22221516)                     |
|                                                                 | 125     | <b>Mathematics Paper XII</b><br>Partial Differential Equations(22221520-A)<br>OR             |
|                                                                 | 126     | Operations Research (22221520-B)                                                             |
|                                                                 | 127     | <b>Statistics Paper XII</b><br>Operations Research(22221523-A)<br>OR                         |
|                                                                 | 128     | Regression Analysis (22221523-B)                                                             |

|  |     |                                                                                       |
|--|-----|---------------------------------------------------------------------------------------|
|  | 129 | <b>Geology Paper XII</b> (22221528)<br>Applied Geology–Prospecting and Mining Geology |
|  | 130 | <b>Microbiology Paper XII</b><br>Industrial Microbiology (22221532-A)<br>OR           |
|  | 131 | Bioprocess Technology (22221532-B)<br>OR                                              |
|  | 132 | Fermentation Technology (22221532-C)                                                  |
|  | 133 | <b>Electronics Paper XII</b><br>Biomedical Electronics(22221540-A)<br>OR              |
|  | 134 | Electronics Communication(22221540-B)                                                 |
|  | 135 | <b>Computer Science Paper XII</b><br>Python Programming (22221536-A)<br>OR            |
|  | 136 | Kotlin Programming (22221536-B)<br>OR                                                 |
|  | 137 | Data warehousing and Mining (22221536-C)                                              |

| <b><u>B.Sc.Sem–VI (New w.e.f.Nov.2024)</u></b><br><b>(CBCS Pattern-2022)</b> |                |                                                                                    |
|------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------|
| <b>Day &amp; Date</b>                                                        | <b>Sr. No.</b> | <b>Subject</b><br><b>Time: 12:00 p.m.to 02:00 p.m</b>                              |
| <b>Tuesday</b><br><b>23/09/2025</b>                                          | 138            | <b>English Compulsory</b> (22221600)<br>Literary Mindscapes Volume                 |
|                                                                              |                | <b>Special Paper-XIII</b>                                                          |
| <b>Wednesday</b><br><b>24/09/2025</b>                                        | 139            | <b>Physics Paper-XIII</b> (22221617)<br>Electrodynamics                            |
|                                                                              | 140            | <b>Chemistry Paper-XIII</b> (22221609)<br>Physical Chemistry                       |
|                                                                              | 141            | <b>Botany Paper-XIII</b> (22221601)<br>Plant Pathology                             |
|                                                                              | 142            | <b>Zoology Paper-XIII</b> (22221625)<br>Animal Physiology: Life Sustaining Systems |
|                                                                              | 143            | <b>Mathematics Paper-XIII</b> (22221633)<br>Metric Spaces                          |
|                                                                              | 144            | <b>Statistics Paper-XIII</b> (22221641)<br>Statistical Inference–II                |
|                                                                              | 145            | <b>Geology Paper-XIII</b> (22221649)<br>Photogeology & Remote Sensing              |
|                                                                              | 146            | <b>Microbiology Paper-XIII</b> (22221657)<br>Molecular Biology and Bioinformatics  |
|                                                                              | 147            | <b>Electronics Paper-XIII</b> (22221673)<br>Power Electronics                      |
|                                                                              | 148            | <b>Computer Science Paper-XIII</b> (22221665)<br>Network Security                  |
|                                                                              |                | <b>Special Paper-XIV</b>                                                           |
| <b>Thursday</b><br><b>25/09/2025</b>                                         | 149            | <b>Physics Paper-XIV</b> Materials Science (22221618)                              |
|                                                                              | 150            | <b>Chemistry Paper-XIV</b> Inorganic Chemistry (22221610)                          |
|                                                                              | 151            | <b>Botany Paper-XIV</b> Plant Biotechnology (22221602)                             |
|                                                                              | 152            | <b>Zoology Paper-XIV</b> - Evolutionary Biology (22221626)                         |
|                                                                              | 153            | <b>Mathematics Paper-XIV</b> Numerical Analysis (22221634)                         |
|                                                                              | 154            | <b>Statistics Paper-XIV</b> Probability Theory (22221642)                          |
|                                                                              | 155            | <b>Geology Paper-XIV</b> Geomorphology and Geotectonic (22221650)                  |
|                                                                              | 156            | <b>Microbiology Paper-XIV</b> Microbial Biochemistry (22221658)                    |
|                                                                              | 157            | <b>Electronics Paper-XIV</b> Embedded System Design (22221674)                     |
|                                                                              | 158            | <b>Computer Science Paper-XIV</b> Linux and Shell Programming (22221666)           |

| <b>B.Sc.Sem-VI (New w.e.f. Nov.2024)</b><br><b>(CBCS Pattern-2022)</b> |                  |                                                                                                                                        |
|------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Day &amp; Date</b>                                                  | <b>Sr. No</b>    | <b>Subject</b><br><b>Time: 12:00 p.m.to 02:00 p.m</b>                                                                                  |
|                                                                        |                  | <b>Special Paper XV</b>                                                                                                                |
| <b>Friday</b><br><b>26/09/2025</b>                                     | 159              | <b>Physics Paper-XV (22221619)</b><br>Atomic, Molecular Physics and Quantum Mechanics                                                  |
|                                                                        | 160              | <b>Chemistry Paper-XV (22221611)</b><br>Organic Chemistry                                                                              |
|                                                                        | 161              | <b>Botany Paper-XV (22221603)</b><br>Cell Biology                                                                                      |
|                                                                        | 162              | <b>Zoology Paper-XV (22221627)</b><br>Animal Behavior and Chronobiology                                                                |
|                                                                        | 163              | <b>Mathematics Paper-XV (22221635)</b><br>Integral Calculus                                                                            |
|                                                                        | 164              | <b>Statistics Paper-XV (22221643)</b><br>Designs of Experiments                                                                        |
|                                                                        | 165              | <b>Geology Paper-XV (22221651)</b><br>-Environmental Geology                                                                           |
|                                                                        | 166              | <b>Microbiology Paper-XV (22221659)</b><br>Environmental Microbiology                                                                  |
|                                                                        | 167              | <b>Electronics Paper-XV (22221675)</b><br>Electronics Instrumentation                                                                  |
|                                                                        | 168              | <b>Computer Science Paper-XV (22221667)</b><br>ASP.Net Core MVC                                                                        |
|                                                                        |                  | <b>Special Paper XVI</b>                                                                                                               |
| <b>Saturday</b><br><b>27/09/2025</b>                                   | 169              | <b>Physics Paper-XVI</b><br>Electronics (22221620)                                                                                     |
|                                                                        | 170<br>OR<br>171 | <b>Chemistry Paper-XVI</b><br>Analytical and Industrial Organic Chemistry (22221616-A)<br>OR<br>Applied Organic Chemistry (22221616-B) |
|                                                                        | 172<br>OR<br>173 | <b>Botany Paper-XVI</b><br>Nursery, Gardening & Horticulture (22221608-A)<br>OR<br>Biostatistics (22221608-B)                          |
|                                                                        | 174              | <b>Zoology Paper-XVI</b><br>Applied Zoology (22221628)                                                                                 |
|                                                                        | 175<br>OR<br>176 | <b>Mathematics Paper-XVI</b><br>Graph Theory (22221640-A)<br>OR<br>Programming in C (22221640-B)                                       |

|                                |     |                                                                            |
|--------------------------------|-----|----------------------------------------------------------------------------|
| <b>Saturday<br/>27/09/2025</b> | 177 | <b>Statistics Paper-XVI</b><br>Quality Management (22221648- A)<br>OR      |
|                                | 178 | Time Series Analysis and Reliability Theory(22221648-B)                    |
|                                | 179 | <b>Geology Paper-XVI (22221652)</b><br>Geochemistry                        |
|                                | 180 | <b>Microbiology Paper-XVI (22221664-A)</b><br>Medical Microbiology<br>OR   |
|                                | 181 | Clinical Microbiology (22221664-B)<br>OR                                   |
|                                | 182 | Health Microbiology (22221664-C)                                           |
|                                | 183 | <b>Electronics Paper-XVI</b><br>Virtual Instrumentation (22221680-A)<br>OR |
|                                | 184 | Modern Communication Systems (22221680-B)                                  |
|                                | 185 | <b>Computer Science -XVI</b><br>Advanced Python (22221672-A)<br>OR         |
|                                | 186 | Mobile Application Development using Kotlin (22221672-B)<br>OR             |
|                                | 187 | Data Visualization using Power BI (22221672-C)                             |

| <u><b>B.Sc. Sem–VI (Neww.e.f.Nov.2021)</b></u><br><b>(CBCSPattern-2019)(Old up to OCT-2025)</b> |                |                                                                                    |
|-------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------|
| <b>Day &amp; Date</b>                                                                           | <b>Sr. No.</b> | <b>Subject</b><br><b>Time: 12:00 p.m.to 02:00 p.m</b>                              |
| <b>Tuesday<br/>23/09/2025</b>                                                                   | 188            | English (Compulsory)(19201600)<br>Literary Mindscapes–I                            |
|                                                                                                 |                | <b>Special Paper-XIII</b>                                                          |
| <b>Wednesday<br/>24/09/2025</b>                                                                 | 189            | <b>Physics Paper-XIV</b> (19201619)<br>Electrodynamics                             |
|                                                                                                 | 190            | <b>Chemistry Paper-XIII</b> (19201610)<br>Physical Chemistry                       |
|                                                                                                 | 191            | <b>Botany Paper-XIII</b> (19201601)<br>Plant Pathology                             |
|                                                                                                 | 192            | <b>Zoology Paper-XIII</b> (19201627)<br>Animal Physiology: Life Sustaining Systems |
|                                                                                                 | 193            | <b>Mathematics Paper-XIII</b> (19201635)<br>Metric Spaces                          |
|                                                                                                 | 194            | <b>Statistics Paper-XIII</b> (19201643)<br>Statistical Inference–II                |
|                                                                                                 | 195            | <b>Geology Paper-XIII</b> (19201652)<br>Photo geology & Remote Sensing             |
|                                                                                                 | 196            | <b>Microbiology Paper-XIII</b> (19201660)<br>Microbial Genetics                    |
|                                                                                                 | 197            | <b>Electronics Paper-XIII</b> (19201676)<br>Power Electronics                      |
|                                                                                                 | 198            | <b>Computer Science Paper-XIV</b> (19201668)<br>Web Technology                     |
|                                                                                                 |                | <b>Special Paper-XIV</b>                                                           |
| <b>Thursday<br/>25/09/2025</b>                                                                  | 199            | <b>Physics Paper-XV</b> Materials Science(19201620)                                |
|                                                                                                 | 200            | <b>Chemistry Paper-XIV</b> Inorganic Chemistry(19201611)                           |
|                                                                                                 | 201            | <b>Botany Paper-XIV</b> Plant Biotechnology(19201602)                              |
|                                                                                                 | 202            | <b>Zoology Paper-XIV</b> - Evolutionary Biology (19201628)                         |
|                                                                                                 | 203            | <b>Mathematics Paper-XIV</b> Numerical Analysis(19201636)                          |
|                                                                                                 | 204            | <b>Statistics Paper-XIV</b> Probability Theory(19201644)                           |
|                                                                                                 | 205            | <b>Geology Paper-XIV</b> Geomorphology and Geotectonic (19201653)                  |
|                                                                                                 | 206            | <b>Microbiology Paper-XIV</b> Microbial Biochemistry(19201661)                     |
|                                                                                                 | 207            | <b>Electronics Paper-XIV</b> Embedded System Design(19201677)                      |
|                                                                                                 | 208            | <b>Computer Science Paper-XV</b> Advanced Java(19201669)                           |

| <b>B.Sc.Sem-VI (Neww.e.f.Nov.2021)</b><br><b>(CBCS Pattern-2019) (Old up to OCT-2025)</b> |                   |                                                                                                                                  |
|-------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Day &amp; Date</b>                                                                     | <b>Sr.<br/>No</b> | <b>Subject</b><br><b>Time: 12:00 p.m.to 02:00 p.m</b>                                                                            |
|                                                                                           |                   | <b>Special Paper XV</b>                                                                                                          |
| <b>Friday<br/>26/09/2025</b>                                                              | 209               | <b>Physics Paper-XVI(19201621)</b><br>Atomic, Molecular Physic sand Quantum Mechanics                                            |
|                                                                                           | 210               | <b>Chemistry Paper-XV(19201612)</b><br>Organic Chemistry                                                                         |
|                                                                                           | 211               | <b>Botany Paper-XV(19201603)</b><br>Cell Biology                                                                                 |
|                                                                                           | 212               | <b>Zoology Paper-XV(19201629)</b><br>Animal Behavior and Chronobiology                                                           |
|                                                                                           | 213               | <b>Mathematics Paper-XV(19201637)</b><br>Graph Theory                                                                            |
|                                                                                           | 214               | <b>Statistics Paper-XV(19201645)</b><br>Designs of Experiments                                                                   |
|                                                                                           | 215               | <b>Geology Paper-XV(19201654)</b><br>-Environmental Geology                                                                      |
|                                                                                           | 216               | <b>Microbiology Paper-XV(19201662)</b><br>Clinical Microbiology                                                                  |
|                                                                                           | 217               | <b>Electronics Paper-XV(19201678)</b><br>Electronics Instrumentation                                                             |
|                                                                                           | 218               | <b>Computer Science Paper-XVI(19201670)</b><br>Data Communication and Networking-II                                              |
|                                                                                           |                   | <b>Special Paper XVI</b>                                                                                                         |
| <b>Saturday<br/>27/09/2025</b>                                                            | 219               | <b>Physics Paper-XVII</b><br>Electronics (19201622)                                                                              |
|                                                                                           | 220<br>221        | <b>Chemistry Paper-XVI</b><br>Analytical and Industrial Organic Chemistry(19201617)<br>OR<br>Applied Organic Chemistry(19201618) |
|                                                                                           | 222<br>223        | <b>Botany Paper-XVI</b><br>Nursery, Gardening & Horticulture(19201608)<br>OR<br>Biostatistics (19201609)                         |
|                                                                                           | 224               | <b>Zoology Paper-XVI</b><br>Applied Zoology (19201630)                                                                           |
|                                                                                           | 225               | <b>Mathematics Paper-XVI</b><br>Integral Calculus (19201638-A)<br>OR                                                             |
|                                                                                           | 226               | Programming in C (19201638-B)                                                                                                    |

|                                |     |                                                                                    |
|--------------------------------|-----|------------------------------------------------------------------------------------|
| <b>Saturday<br/>27/09/2025</b> | 227 | <b>Statistics Paper-XVI</b><br>Quality Management and Reliability (19201650)<br>OR |
|                                | 228 | Time Series Analysis (19201651)                                                    |
|                                | 229 | <b>Geology Paper-XVI (19201655)</b><br>Geochemistry                                |
|                                | 230 | <b>Microbiology Paper-XVI (19201663)</b><br>Environmental Microbiology             |
|                                | 231 | <b>Electronics Paper-XVI</b><br>Virtual Instrumentation (19201683)<br>OR           |
|                                | 232 | Modern Communication Systems (19201684)                                            |
|                                | 233 | <b>Computer Science Paper-XVII (19201671)</b><br>Advanced Python                   |
|                                | 234 | Software Testing (19201671-01)                                                     |

**Note:**

1. The Practical Examination will be CONDUCTED BEFORE /AFTER THE THEORY EXAMINATION AND THE PROGRAM WILL BE COMMUNICATED SEPARATELY.
2. The students are allowed to use the calculators for Numerical calculations at their own cost. University will not supply such calculators.
3. Cellular phone, Pager, Programmable Scientific Calculator and Digital Diary or any Means which can be used for unfair practice are not allowed in the Examination hall.
4. The Examination Programme is subject to change. If there is any change the University is not responsible for the loss or inconvenience caused to the candidates.
5. **(Important Note:** Code Numbers given in the Bracket are Computer Code of respective Subjects, Students should mention these Code Numbers on Answer Books with Name of the Subject. Also write these Code Numbers on JSR (Junior Supervisor Report) and related documents)
6. **The Theory Exam of 20 Marks Paper are conducted at College level.**
7. **Democracy, Election and Good Governance and Environmental Studies Exam conducted at College level. (As per University Circular No. 65 dt.26 Oct.2023)**

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RefNo.: PAHSUS/EXAM/TIME-TABLE/2025/1500

Date: 07/08/2025

Sd/-  
Director  
Board of Examinations and Evaluation

| Pattern<br>2019<br>Paper<br>Code | B.Sc - Sem-I Subject                         | Pattern 2022<br>Paper Code |
|----------------------------------|----------------------------------------------|----------------------------|
| 19201101/<br>20201101            | English Paper-I Part-A (Communication Skill) | 22221101                   |
| 19201102                         | Botany-I                                     | 22221102                   |
| 19201103                         | Botany-II                                    | 22221103                   |
| 19201104                         | Physics-I                                    | 22221104                   |
| 19201105                         | Physics-II                                   | 22221105                   |
| 19201106                         | Chemistry-I                                  | 22221106                   |
| 19201107                         | Chemistry-II                                 | 22221107                   |
| 19201108                         | Statistics-I                                 | 22221108                   |
| 19201109                         | Statistics-II                                | 22221109                   |
| 19201110                         | Geology-I                                    | 22221110                   |
| 19201111                         | Geology-II                                   | 22221111                   |
| 19201112                         | Psychology-I                                 | 22221112                   |
| 19201113                         | Psychology-II                                | 22221113                   |
| 19201114                         | Microbiology-I                               | 22221114                   |
| 19201115                         | Microbiology-II                              | 22221115                   |
| 19201116                         | Mathematics-I                                | 22221116                   |
| 19201117                         | Mathematics-II                               | 22221117                   |
| 19201118                         | Electronics-I                                | 22221118                   |
| 19201119                         | Electronics-II                               | 22221119                   |
| 19201120                         | Computer Science-I                           | 22221120                   |
| 19201121                         | Computer Science-II                          | 22221121                   |
| 19201122                         | Zoology-I                                    | 22221122                   |
| 19201123                         | Zoology-II                                   | 22221123                   |
| 19201124                         | Geography-I                                  | 22221124                   |
| 19201125                         | Geography-II                                 | 22221125                   |
|                                  |                                              |                            |
| Pattern<br>2019<br>Paper<br>Code | B.Sc - Sem-II Subject                        | Pattern 2022<br>Paper Code |
| 19201201/<br>20201201            | English Paper-I Part-B (Communication Skill) | 22221201                   |
| 19201202                         | Botany-III                                   | 22221202                   |
| 19201203                         | Botany-IV                                    | 22221203                   |
| 19201205                         | Physics-III                                  | 22221205                   |
| 19201206                         | Physics-IV                                   | 22221206                   |
| 19201208                         | Chemistry-III                                | 22221208                   |
| 19201209                         | Chemistry-IV                                 | 22221209                   |
| 19201211                         | Statistics-III                               | 22221211                   |
| 19201212                         | Statistics-IV                                | 22221212                   |

|          |                      |          |
|----------|----------------------|----------|
| 19201214 | Geology-III          | 22221214 |
| 19201215 | Geology-IV           | 22221215 |
| 19201217 | Psychology-III       | 22221217 |
| 19201218 | Psychology-IV        | 22221218 |
| 19201220 | Microbiology-III     | 22221220 |
| 19201221 | Microbiology-IV      | 22221221 |
| 19201223 | Mathematics-III      | 22221223 |
| 19201224 | Mathematics-IV       | 22221224 |
| 19201226 | Electronics-III      | 22221226 |
| 19201227 | Electronics-IV       | 22221227 |
| 19201229 | Computer Science-III | 22221229 |
| 19201230 | Computer Science-IV  | 22221230 |
| 19201232 | Zoology-III          | 22221232 |
| 19201233 | Zoology-IV           | 22221233 |
| 19201235 | Geography-III        | 22221235 |
| 19201236 | Geography-IV         | 22221236 |

| Pattern<br>2019<br>Paper<br>Code | B.Sc - Sem-III Subject | Pattern 2022<br>Paper Code |
|----------------------------------|------------------------|----------------------------|
| 19201301                         | Botany-V               | 22221302                   |
| 19201302                         | Botany-VI              | 22221303                   |
| 19201323                         | Physics-V              | 22221304                   |
| 19201324                         | Physics-VI             | 22221305                   |
| 19201303                         | Biochemistry-I         | 22221306                   |
| 19201304                         | Biochemistry-II        | 22221307                   |
| 19201329                         | Statistics-V           | 22221308                   |
| 19201330                         | Statistics-VI          | 22221309                   |
| 19201315                         | Geology-V              | 22221310                   |
| 19201316                         | Geology-VI             | 22221311                   |
| 19201325                         | Plant Protection-V     | 22221312                   |
| 19201326                         | Plant Protection-VI    | 22221313                   |
| 19201317                         | Microbiology-V         | 22221314                   |
| 19201318                         | Microbiology-VI        | 22221315                   |
| 19201319                         | Mathematics-V          | 22221316                   |
| 19201320                         | Mathematics-VI         | 22221317                   |
| 19201309                         | Electronics-V          | 22221318                   |
| 19201310                         | Electronics-VI         | 22221319                   |
| 19201307                         | Computer Science-V     | 22221320                   |
| 19201308                         | Computer Science-VI    | 22221321                   |
| 19201331                         | Zoology-V              | 22221322                   |
| 19201332                         | Zoology-VI             | 22221323                   |
| 19201311                         | Geography-V            | 22221324                   |
| 19201312                         | Geography-VI           | 22221325                   |
| 19201321                         | Meteorology-I          | 22221326                   |

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|----------|-----------------|----------|
| 19201322 | Meteorology-II  | 22221327 |
| 19201313 | Geochemistry-I  | 22221328 |
| 19201314 | Geochemistry-II | 22221329 |
| 19201305 | Chemistry-V     | 22221330 |
| 19201306 | Chemistry-VI    | 22221331 |

| Pattern<br>2019<br>Paper<br>Code | B.Sc - Sem-IV Subject | Pattern 2022<br>Paper Code |
|----------------------------------|-----------------------|----------------------------|
| 19201401                         | Botany-VII            | 22221402                   |
| 19201402                         | Botany-VIII           | 22221403                   |
| 19201404                         | Biochemistry-III      | 22221408                   |
| 19201405                         | Biochemistry-IV       | 22221409                   |
| 19201407                         | Chemistry-VII         | 22221444                   |
| 19201408                         | Chemistry-VIII        | 22221445                   |
| 19201410                         | Computer Science-VII  | 22221429                   |
| 19201411                         | Computer Science-VIII | 22221430                   |
| 19201413                         | Electronics-VII       | 22221426                   |
| 19201414                         | Electronics-VIII      | 22221427                   |
| 19201416                         | Geography-VII         | 22221435                   |
| 19201417                         | Geography-VIII        | 22221436                   |
| 19201419                         | Geo-Chemistry-III     | 22221441                   |
| 19201420                         | Geo-Chemistry-IV      | 22221442                   |
| 19201422                         | Geology-VII           | 22221414                   |
| 19201423                         | Geology-VIII          | 22221415                   |
| 19201425                         | Microbiology-VII      | 22221420                   |
| 19201426                         | Microbiology-VIII     | 22221421                   |
| 19201428                         | Mathematics-VII       | 22221423                   |
| 19201429                         | Mathematics-VIII      | 22221424                   |
| 19201431                         | Meteorology-III       | 22221438                   |
| 19201432                         | Meteorology-IV        | 22221439                   |
| 19201434                         | Physics-VII           | 22221405                   |
| 19201435                         | Physics-VIII          | 22221406                   |
| 19201437                         | Plant Protection-III  | 22221417                   |
| 19201438                         | Plant Protection-IV   | 22221418                   |
| 19201440                         | Psychology-VII        | 22221447                   |
| 19201441                         | Psychology-VIII       | 22221448                   |
| 19201443                         | Statistics-VII        | 22221411                   |
| 19201444                         | Statistics-VIII       | 22221412                   |
| 19201446                         | Zoology-VII           | 22221432                   |
| 19201447                         | Zoology-VIII          | 22221433                   |

| Pattern<br>2019<br>Paper | B.Sc - Sem-V Subject | Pattern 2022<br>Paper Code |
|--------------------------|----------------------|----------------------------|
|--------------------------|----------------------|----------------------------|

| Code       |                                                                        |                |
|------------|------------------------------------------------------------------------|----------------|
| 19201500   | Compulsory English                                                     | 22221500       |
| 19201501   | Botany Paper-IX-Plant Systematics                                      | 22221501       |
| 19201502   | Botany Paper-X-Genetics                                                | 22221502       |
| 19201503   | Botany Paper-XI-Molecular Biology                                      | 22221503       |
| 19201504   | Botany Paper-XII Plant Breeding                                        | 22221504-A     |
| 19201505   | Botany Paper-XII Economic Botany                                       | 22221504-B     |
| 19201506   | Chemistry Paper-IX-Physical Chemistry                                  | 22221505       |
| 19201507   | Chemistry Paper-X-Inorganic Chemistry                                  | 22221506       |
| 19201508   | Chemistry Paper-XI-Organic Chemistry                                   | 22221507       |
| 19201509   | Chemistry Paper-XII Analytical and Industrial Physical Chemistry       | 22221508-A     |
| 19201510   | Chemistry Paper-XII Methodology and materials of industrial importance | 22221508-B     |
| 19201511   | Physics Paper-IX-Mathematical Physics and Statistical Physics          | 22221509       |
| 19201512   | Physics Paper-X-Solid State Physics                                    | 22221510       |
| 19201513   | Physics Paper-XI-Classical Mechanics                                   | 22221511       |
| 19201514   | Physics Paper-XII-Nuclear Physics                                      | 22221512       |
| 19201520   | Zoology Paper-IX-Molecular Biology                                     | 22221513       |
| 19201521   | Zoology Paper-X-Principles of Genetics                                 | 22221514       |
| 19201522   | Zoology Paper-XI-Endocrinology                                         | 22221515       |
| 19201523   | Zoology Paper-XII-Wildlife Conservation and Management                 | 22221516       |
| 19201524   | Mathematics Paper-IX-Algebra-II                                        | 22221517       |
| 19201525   | Mathematics Paper-X-Complex Analysis                                   | 22221518       |
| 19201526   | Mathematics Paper-XI-Real Analysis                                     | 22221519       |
| 19201527-A | Mathematics Paper-XII-Partial Differential Equations                   | 22221520-A     |
| 19201527-B | Mathematics Paper-XII-Operations Research                              | No Equivalence |
| 19201528   | Statistics Paper-IX-Statistical Inference-I                            | 22221520       |
| 19201529   | Statistics Paper-X-Probability Distributions                           | 22221521       |
| 19201530   | Statistics Paper-XI-Sampling Techniques                                | 22221522       |
| 19201531   | Statistics Paper-XII Operations Research                               | 22221523-A     |
| 19201532   | Statistics Paper-XII Regression Analysis                               | 22221523-B     |
| 19201533   | MS-Excel                                                               | No Equivalence |
| 19201534   | Geology Paper-IX-Economic Geology                                      | 22221525       |
| 19201535   | Geology Paper-X-Hydrogeology                                           | 22221526       |
| 19201536   | Geology Paper-XI-Applied Geology-Engineering Geology                   | 22221527       |
| 19201537   | Geology Paper-XII-Applied Geology-Prospecting and Mining Geology       | 22221528       |
| 19201538   | Geoinformatics                                                         | No Equivalence |

|          |                                                                  |                   |
|----------|------------------------------------------------------------------|-------------------|
| 19201539 | Microbiology Paper-IX-Virology                                   | 22221529          |
| 19201540 | Microbiology Paper-X-Agricultural Microbiology                   | 22221530          |
| 19201541 | Microbiology Paper-XI-Immunology                                 | 22221531          |
| 19201542 | Microbiology Paper-XII-Industrial Microbiology                   | 22221532-A        |
| 19201543 | Computer Science Paper-IX-Visual Programming Using C #           | 22221535          |
| 19201544 | Computer Science Paper-X-Core Java                               | No<br>Equivleance |
| 19201545 | Computer Science Paper-XI-Operating System                       | No<br>Equivleance |
| 19201546 | Computer Science Paper-XII Python                                | 22221536-A        |
| 19201547 | Linux                                                            | No<br>Equivleance |
| 19201548 | Electronics Paper-IX-Linear Integrated Circuits and Applications | 22221537          |
| 19201549 | Electronics Paper-X-Fundamentals of Microcontroller              | 22221538          |
| 19201550 | Electronics Paper-XI-Sensors and Transducers                     | 22221539          |
| 19201551 | Electronics Paper-XII Biomedical Electronics                     | 22221540-A        |
| 19201552 | Electronics Paper-XII Electronics Communication                  | 22221540-B        |