# PANJAB UNIVERSITY, CHANDIGARH

Date-Sheet for **M.A./M.SC./M.COM./M.P.ED. (Semester System)-2ND SEMESTER**
*(Full Subjects/Reappear/Improvement of the Performance)* Examination
to be held in **May, 2019**

> **(THEORY EXAMINATIONS)**
> TIME OF EXAMINATIONS: **2.00 p.m. to 5.00 p.m.**

| DATE & DAY | SUBJECT/SUBJECT/CODE NO. |
|---|---|
| **MAY-2019**<br>11th, Saturday | **Botany Paper-VI:** Pteriodophytes (3524) |
| | **History Paper-I:** Punjab in the Eighteenth Century (HIS 125) (Compulsory) (2864) |
| | **Public Administration Paper-I:** Administrative Thought (3218) |
| 13th, Monday | **Chemistry Paper-I (CH-421):** Inorganic Chemistry (3550) |
| | **Economics (MAECO 201):** Micro Economics-II (2662) |
| | **Education Paper-VI (C01-PSF):** Philosophical and Sociological Foundations of Education-II (2733) |
| | **Gandhian & Peace Studies Paper-VI:** Gandhi and Freedom Movement (2836) |
| | **Hindi Paper-I:** Hindi Sahitya Ka Adhunik Kal (2338) |
| | **History of Art Paper-V:** History of Indian Sculpture and Architecture from 1st Century A.D. to 6th Century A.D. (2920) |
| | **Physics (PHY-6011):** Mathematical Physics-II (3709) |
| | **Punjabi Paper-V:** Adhunik Punjabi Sahit Da Itihas (2372) |
| | **Sanskrit Paper-V:** Vaidik Sahitya (2472) |
| | **Sociology SOC R 425:** Positivistic Sociological Theories (3352) |
| | **Urdu Paper-I:** Modern Poetry (2508) |
| | **Zoology Paper-VI:** Structure and Functions of Invertebrates-II (3760) |
| | **Governance & Leadership:Paper – I:** Public Policy (4101) |
| 14th, Tuesday | **Ancient Indian History, Culture & Archaeology Paper-IX:** History of India from C. 8th Century B.C. to 78 A.D.(Compulsory) (2548) |
| | **Disaster Management DM-5:** Finance & Insurance in Disaster Management (2642) |
| | **Environment Science (ENV-6201) Paper-I:** Biodiversity & Conservation (3574) |
| | **Journalism & Mass Communication Paper-I:** Communication Theory (2986) |
| | **M. Com. (M.C.-201):** Business Environment (3813) *(Same for USOL Candidates)* |
| | **Public Administration Paper-II:** Research Methods (3219) |
| 15th, Wednesday | **Botany Paper-VII:** Gymnosperms (3525) |
| | **M. P.Ed. Paper-V MPCC-201:** Applied Statistics in Physical Education and Sports (3085) |
| | **Police Administration Paper-I:** Correctional Administration (3145) |
| | **Sociology SOC R 426:** Methodology of Social Research (3353) |
| 16th, Thursday | **Bioinformatics MBIN-8007:** Statistics and Probability (3497) |
| | **Buddhist & Tibetan Studies Paper-V:** Buddhist Philosophy (2231) |
| | **Community Education & Development Paper-I:** Community Social Psychology (2592) |
| | **Defence & Strategic Studies DS-5:** Defence Aspects of International Relations (2616) |
| | **Economics (MAECO 202):** Contemporary Issues in Indian Economy-II (2663) |
| | **Education Paper-VII (C02-EDP):** Educational Psychology-II (2734) |
| | **English Paper-I:** Literary Criticism-II (2255) |
| | **French FRC-201:** French Civilization (2291) |
| | **Geography Paper-I:** Climatology (2797) |
| | **History Paper-II:**<br> Opt.(i): Agrarian Economy of Ancient India (HIS 713) (2865)<br> Opt.(ii) Agrarian Economy of Medieval India(HIS 712) (2866)<br> Opt.(iii): Agrarian Economy of Modern India(HIS 711) (2867)<br> Opt.(iv): Industry, Trade & Urbanization in Medieval India (HIS 721) (2868)<br> Opt.(v): Industry & Trade in Modern India (HIS 730)(2869) |
| | **Journalism and Mass Communication Paper-II:** Print Journalism (2987) |
| | **M.Sc. (IT) MS-45:** Advanced Java & Network Programming (3612) |
| | **Master in Social Works CSW-201:** Social Case Work (3117) |
| | **Mathematics (Math-621-S):** Real Analysis-II (3650) |
| | **Microbial Biotechnology MBT-201:** Medical Microbiology (3688) |
| | **Persian Paper-I:** History of Persian Language & Literature (2419) |
| | **Philosophy Paper-201:** Philosophical Psychology(Debates in Philosophical Psychology) (3264) |
| | **Political Science Course-V:** Western Political Thought-II (3170) |
| | **Psychology Paper-I:** Theories and Systems of Psychology-II (3294) |
| | **Punjabi Paper-VI:** Adhunik Pachhmi Kavi Shastra Ate Viharak Alochna (2373) |
| | **Remote Sensing Paper-V:** Cartography (3335) |
| | **Russian Paper-V:** 19th Century Russian Literature (2448) |
| | **Statistics Stat-201:** Numerical Techniques using FORTRAN (3736) |
| | **Zoology Paper-VII:** Comparative Anatomy of Vertebrates-II (3761) |

## M.A./M.SC./M.COM./M.P.ED. (Semester System)-2ND SEMESTER

| DATE & DAY | SUBJECT/SUBJECT/CODE NO. |
|---|---|
| **MAY-2019**<br>17th, Friday | **Ancient Indian History, Culture & Archaeology Paper-X:** History of India from C. 300 A.D. to 1200 A.D. (Compulsory) (2549) |
| | **Biotechnology MBIO-201:**Molecular Biology (3472) |
| | **Chemistry Paper-II** (CH-422): Organic Chemistry (3551) |
| | **Disaster Management DM-6:** Research Methods in Disaster Management (2643) |
| | **Environment Science** (ENV-6202) Paper-II: Environmental and Analysis Techniques and Instrumentation (3575) |
| | **Gandhian & Peace Studies Paper-VII:** Economic Thought of Mahatma Gandhi (2837) |
| | **Hindi Paper-II:** Adhunik Hindi Kavya (2339) |
| | **History of Art Paper-VI:** History of European Art from the Early Medieval Period till Late Gothic Period c.a. 1400 A.D. (2921) |
| | **M. Com (M.C.-202):** Research Methodology in Commerce (3814) *(Same for USOL Candidates)* |
| | **Physics (PHY-6012):** Quantum Mechanics-II (3710) |
| | **Public Administration Paper-III:** Public Policy & Administration (3220) |
| | **Sanskrit Paper-VI:** Kavya Avem Kavya Shastra (2473) |
| | **Sociology (SOC O 521):** Population and Society (3354) |
| | **Urdu Paper-II:** Modern Prose (Urdu Drama and Theatre) (2509) |
| | **Comparative Study of Religions** *Paper-V:* Study of Religion (SOR05) (4077) |
| | **Governance & Leadership:Paper – II:** Research Methodology (4102) |
| 20th, Monday | **Botany Paper-VIII:** Angiosperm Morphology, Taxonomy and Phylogeny (3526) |
| | **Education Paper-VIII (C03-ERS):** Educational Research and Statistics-II (2735) |
| | **Human Rights & Duties Core Paper-5:** Development, Globalization and Human Rights (2944) |
| | **M. Com (M.C.-203):** Financial Management & Policy (3815) *(Same for USOL Candidates)* |
| | **M. P.Ed. Paper-VI MPCC-202: Sports Biomechanics and Kinesiology (3086)** |
| | **Police Administration Paper-II:** Criminology (3146) |
| 21st, Tuesday | **Bioinformatics MBIN-8008:** Sequence Bioinformatics and Software Tools (3498) |
| | **Biotechnology** MBIO-202:Biology of Immune System (3473) |
| | **Buddhist & Tibetan Studies Paper-VI:** Himalyan and Mahayana Buddhism (2232) |
| | **Community Education & Development Paper-II:** Urbanization and Slums (2593) |
| | **Defence & Strategic Studies DS-6:** Strategic Aspects of India's Security (2617) |
| | **Disaster Management DM-7:** Disasters in India (2644) |
| | **Economics** (MAECO 203): Quantitative Method-II (2664) |
| | **Fine Arts** Paper-V: History of Indian Architecture (2774) |
| | **French FRL-202:** General Linguistics (2292) |
| | **History Paper-III:**<br>    Opt. (i) Modern World (Mid 15th-19th Century) (HIS 831) (2871)<br>    Opt. (ii) China & Japan (1840-1950) (HIS 844) (2872) |
| | **Indian Classical Dance Paper-I:** Survey of Historical & Theoretical Aspects of Indian Dance (3064) |
| | **Indian Theatre Paper-V**: Dramatic Literature (Theory) (2967) |
| | **Journalism & Mass Communication Paper-III:** Editing & Design for Print Media (2988) |
| | **Master in Social Works CSW-202:** Social Group Work(3118) |
| | **Mathematics (Math-622-S):** Algebra-II (3651) |
| | **Music (Instrumental) Paper-I :** Theoretical Survey, Principles of Aesthetics and Critical study of Ragas (3016) |
| | **Music (Tabla) Paper-I:** Applied Theory of Music (Tabla) (3048) |
| | **Music (Vocal) Paper-I :** Theoretical Survey, Principles of Aesthetics and Critical study of Ragas (3032) |
| | **Persian Paper-II:** Elements of Persian Structure (2420) |
| | **Philosophy Paper-202:** Western Philosophy (Modern Western Philosophy) (3265) |
| | **Physics (PHY-6013):** Particle Physics-I (3711) |
| | **Psychology Paper-II:** Social Psychology-II (3295) |
| | **Public Administration Paper-IV**: Administrative Law (3221) |
| | **Russian Paper-VI:** Translation (2449) |
| | **Sociology (SOC O 621):** Social Dimensions of Development (3355) |
| | **Statistics Stat-202:** Estimation & Testing of Hypothesis (3737) |
| | **Women Studies Paper-I:** Feminism: An Indian Perspective (3398) |
| 22nd, Wednesday | **Ancient Indian History, Culture & Archaeology Paper-XIV:** Indian Architecture (2553) |
| | **Chemistry** Paper-III (CH-423): Physical Chemistry (3552) |
| | **English Paper-II:** British Poetry-II (2256) |
| | **Environment Science** (ENV-6203) Paper-III :Environmental Pollution (3576) |
| | **Gandhian & Peace Studies Paper-VIII:** Conflict and Conflict Resolution (2838) |
| | **Geography Paper-II:** Geography of India(Systematic & Regional) (2798) |
| | **Hindi Paper-III:** Adhunik Hindi Gadhya Sahitya (2340) |
| | **History of Art Paper-VII**: History of Indian Painting from c.a. 1550 A.D. to c.a.1850 A.D. (2922) |
| | **M. Com (M.C.-204):** Production and Material Management (3816) *(Same for USOL Candidates)* |
| | **M.Sc. (IT) MS-60:** Advanced Database Programming and MySQL (3614) |
| | **Microbial Biotechnology MBT-202:** Molecular Biology (3689) |
| | **Political Science Course-VI:** Comparative Politics-I: Understanding Advanced Industrial Societies (3171) |
| | **Punjabi Paper-VII:**<br>    Opt. (i): Madhkali Punjabi Kav-II (2374)<br>    Opt. (ii): Sufi Kissa Ate Vir Kav (2375) |

## M.A./M.SC./M.COM./M.P.ED. (Semester System)-2$^{ND}$ SEMESTER

| DATE & DAY | SUBJECT/SUBJECT/CODE NO. |
|---|---|
| **MAY-2019**<br>22$^{nd}$, Wednesday | **Remote Sensing Paper-VI:** Spatial Analysis (3336) |
| | **Sanskrit Paper-VII:** Vyakaran Aur Bhasavigyan (2474) |
| | **Urdu Paper-III:** Non-fiction (Essay and Translation) (2510) |
| | **Zoology Paper-VIII:** Biosystematics and Evolution (3762) |
| | **Governance & Leadership:Paper – III:** Political Parties and Electoral Process (4103) |
| 25$^{th}$, Saturday | **Bioinformatics MBIN-8009:** Programming Languages in Bio-informatics-I (3499) |
| | **Biotechnology** MBIO-203:Biophysical and Biochemical Techniques(3474) |
| | **Botany Paper-IX:** Reproductive Biology of Angiosperms (3527) |
| | **Buddhist & Tibetan Studies Paper-VII:** Early Buddhist Literature (2233) |
| | **Community Education &  Development Paper-III:** Corporate Social Responsibility (2594) |
| | **Defence & Strategic Studies DS-7:** Modern Strategic Thought (2618) |
| | **Disaster Management** DM-8: Disaster Management Mechanisms in India (2645) |
| | **Education Paper-IX& X (E02-GNC) Opt.(b):** Guidance & Counselling-II (2737) |
| | **Fine Arts** Paper-VI: History of Indian Painting (2775) |
| | **Human Rights & Duties Core Paper-6:** Women and Human Rights (2945) |
| | **Indian Classical Dance**: **Paper-II**: Practical Composition and Essay (3065) |
| | **Indian Theatre Paper-VI**: Theatre Architecture (Theory) (2968) |
| | **M. P.Ed. Paper-VII MPCC-203:** Theory Track and Field-I (3087) |
| | **Mathematics (Math-623-S):** Vector Analysis & Mechanics (3652) |
| | **Microbial Biotechnology MBT-203**: Industrial Microbiology-I (Health, Food, Enzymes) (3690) |
| | **Music (Instrumental) Paper-II** : History of Indian Music (3017) |
| | **Music (Tabla) Paper-II:** History and Study of Lakshan Granthas (3049) |
| | **Music (Vocal)  Paper-II** : History of Indian Music (3033) |
| | **Philosophy Paper-203**: Classical Indian Philosophy (Indian Epistemology) (3266) |
| | **Police Administration Paper-III:** Research Methodology (3147) |
| | **Psychology Paper-III**: Experimental and Cognitive Psychology-II (3296) |
| | **Public Administration Paper-V:** Indian Political System (3222) |
| | **Punjabi Paper-VIII:**<br>   Opt. (i): Punjabi Novel da Adhiyan  (2376)<br>   Opt. (ii): Punjabi Ate Parvasi Punjabi Kahani da Adhiyan (2377) |
| | **Remote Sensing Paper-VII:**  Image Processing (3337) |
| | **Russian Paper-VII:** Modern Russian Language (Morphology) (2450) |
| | **Statistics Stat-203:** Sampling Theory and Official Statistics  (3738) |
| | **Women Studies Paper-II:** Emerging Trends in Research Methodology (3399) |
| | **Comparative Study of Religions** *Paper-VI*: Hinduism (HIN06) (4078) |
| 27$^{th}$, Monday | **Ancient Indian History, Culture & Archaeology** Paper-XV: Sculpture (2554) |
| | **Chemistry** Paper-IV (CH-424): Group Theory, Spectroscopy and Diffraction Methods (3553) |
| | **Economics** (MAECO 204): International Economics (2665) |
| | **English Paper-III:** British Drama-II (2257) |
| | **Environment Science** (ENV-6204) Paper-IV: Environmental Impact Assessment & Auditing (3577) |
| | **French FRD-203:** French & Francophone Drama(20th Century) (2293) |
| | **Gandhian & Peace Studies Paper-IX**: Social Thoughts of Mahatma Gandhi (2839) |
| | **Geography Paper-III:** Fundamentals of Remote Sensing (Theory) (2799) |
| | **Hindi Paper-IV** : Pashchatya Kavya Shastra Avem  Samkalin Alochna Sidhant (2341) |
| | **History of Art Paper-VIII:** Basic Religious Systems and Iconographic Concepts (2923) |
| | **M. Com (M.C.-205):** Operations Research (3817) ***(Same for USOL Candidates)*** |
| | **M.Sc. (IT) MS-65:** E-Commerce and Emerging Trends (3613) |
| | **Master in Social Works CSW-203:** Community Organization & Development (3119) |
| | **Persian Paper-III:** Modern Prose (2421) |
| | **Physics (PHY-6014):** Nuclear Physics-I (3712) |
| | **Political Science Course-VII**: Indian Politics: Political Process Compulsory  (3172) |
| | **Panjabi (Hons) Paper-XIX**: Varis Shah: Dhergh Adhiyan (2401) |
| | **Sanskrit Paper-VIII**: Darshan (2475) |
| | **Sociology (SOC O 721):** Sociology of Urban Settlements (3356) |
| | **Urdu Paper-IV**: Print Media and Mass Media (Radio and T.V.) (2511) |
| | **Zoology Paper-IX**: Endocrinology and Neural Physiology (3763) |
| 28$^{th}$, Tuesday | **Bioinformatics** MBIN-8010: Immunology and Cell Biology (3500) |
| | **Biotechnology** MBIO-204:Enzymology and Enzyme Technology (3475) |
| | **Education** Paper IX & X (E03-EDT) Opt (c): Educational  Technology-II (2738) |
| | **History Paper-IV:**<br>   Opt. (i) USA (1820-1973) (HIS 812) (2875)<br>   Opt. (ii) World in the Twentieth Century(HIS 832) (2876) |
| | **Human Rights & Duties Core Paper-7**: Environment, Human Rights and Duties (2946) |
| | **Journalism & Mass Communication Paper-IV:**  Radio &TV Communication-II (2989) |
| | **M. P.Ed. Paper-VIII MPEC-201:** Management of  Physical Education and Sports (3088)<br>**OR**<br>**M. P.Ed. Paper-VIII MPEC-202:** Adapted Physical Education (3089) |
| | **Mathematics (Math-624-S):** Complex Analysis-II (3653) |
| | **Microbial Biotechnology MBT-204:** Bioinformatics & Biostatics (3691) |
| | **Philosophy Paper-204:** Logic (Part-II) (3267) |
| | **Police Administration Paper-IV:** Sociology  and Police Administration (3148) |
| | **Psychology Paper-IV:** Research Methodology & Statistics-II (3297) |

## M.A./M.SC./M.COM./M.P.ED. (Semester System)-2ND SEMESTER

| MAY-2019 | |
|---|---|
| 28th, Tuesday | **Remote Sensing Paper-VIII**: Fundamentals of Global Positioning System (GPS) (3338) |
| | **Russian Paper-VIII**: Modern Russian Language (Phonetics, Lexicology and Phraseology) (2451) |
| | **Sociology** (SOC O 821): Structure Moorings of Gender Oppression (3357) |
| | **Statistics Stat-204:** Measure & Probability (Theory) (M.6) (3739) |
| | **Women Studies Paper-III:** United Nations and Women's Issues (3400) |
| | **Comparative Study of Religions** *Paper-VII:* Buddhism (BUD07) (4079) |
| 29th, Wednesday | **Botany Paper-X:** Plant Pathology (3528) |
| | **Buddhist & Tibetan Studies** Paper-VIII: Dhammapada and Jataka Stories (2234) |
| | **Community Education & Development** Paper-IV: Human Resource Development and Training (2595) |
| | **Defence & Strategic Studies** DS-8: Research Methodology (2619) |
| | **M. Com (M.C.-206):** Business Policy & Strategic Management (3818) *(Same for USOL Candidates)* |
| | **Public Administration Paper-V:** Indian Administrative System (3223) |
| | **Sociology** (SOC O 921): Peasants and Rural Society in India (3358) |
| 30th, Thursday | **English** Paper-IV: British Fiction-II (2258) |
| | **Journalism & Mass Communication Paper V**: Media Management (2990) |
| | **Physics (PHY-6015):** Electronics-II (3713) |
| | **Panjabi (Hons) Paper-XX**: Pra-lochna ate Panjabi Alochna-II (2402) |
| | **Sociology** (SOC O 922): Organizational Theory and Behaviour (3359) |
| 31st, Friday | **Bioinformatics MBIN-8011**: Metabolic Pathway Analysis (3501) |
| | **Biotechnology** MBIO-205:Environmental Biotechnology (3476) |
| | **Education Paper-IX& X (E07-EAM) Opt.(g):** Educational Administration and Management-II (2742) |
| | **French FRT-204**: Translation (Theory & Applied) (2294) |
| | **Gandhian & Peace Studies Paper-X**: Gandhi and World Peace (2840) |
| | **Geography Paper-IV:**<br>Opt.(i): Culture Geography (2800)<br>Opt.(ii): Population and Development Planning (2801)<br>Opt.(iii): Fundamentals of Natural Hazards and Disaster Management (2802)<br>Opt.(iv): Marketing Geography (2803)<br>Opt.(v): Geography of Water Resources (2804)<br>Opt.(vi): Administrative Geography (2805) |
| | **Human Rights & Duties Core Paper-8**: Civil Society and Human Rights Movements in India (2947) |
| | **M. Com:**<br>**M.C.-207A:** Entrepreneurship Development & Project Management (3819) *(Only for USOL Candidates)*<br>**M.C.-207B:** Financial Services (3820) *(Only for USOL Candidates)* |
| | **M.Sc. (IT)** MS-67: Artificial Intelligence (3615) |
| | **Master in Social Works CSW-204:** Social Work Practice (3120) |
| | **Mathematics (Math-625-S)**: Number Theory-II (3654) |
| | **Microbial Biotechnology MBT-205**: Intellectual Property Rights (IPR) & Bioethics & Entrepreneurship (3692) |
| | **Persian Paper-IV**: Modern Poetry (2422) |
| | **Police Administration Paper-V:** Police Psychology (3149) |
| | **Political Science Course-VIII**: Theories of International Relations (3173) |
| | **Sociology** (SOC O 923): Basic Social Statistics (3360) |
| | **Women Studies Paper-IV(ii):** Women and Environment (3401) |
| | **Zoology Paper-X**: Immunology (3764) |
| | **Comparative Study of Religions** *Paper-VII:* Study of Sikh Religion-II (SSR08) (4080) |

**NOTE:**

1) THE CANDIDATES ARE NOT PERMITTED TO CARRY ANY COMMUNICATION EQUIPMENT SUCH AS MOBILE PHONE/PAGER, WIRELESS SET, SCANNER PEN SCANNER/CAMERA OR ANY SUCH ELECTRONIC/DIGITAL GADGET ETC. INSIDE THE EXAMINATION HALL WHICH IS PUNISHABLE WITH DISQUALIFICATION FOR PERIOD OF TWO YEARS WITH THE SUBSEQUENT EXAMINATION.

2) Candidates are permitted to use Statistical Tables and four functions calculators for their papers Research Methodology in the subject of Psychology.

3) The candidates are advised to copy the subject code from the question paper to fill in the OMR Sheet.

4) Candidate should write his/ her Roll No. on the OMR title cover from Left to Right.

5) FOR **CLASH**, IF **TWO EXAMINATIONS** OF A **SINGLE CANDIDATE FALLS ON THE SAME DATE/TIME**, THE CANDIDATE HAS TO **SEND HIS/HER EMAIL** ALONG **WITH ADMIT CARDS** OF BOTH CLASSES REGARDING THIS ISSUE TO datesheet@pu.ac.in BY CLEARLY MENTIONING IN WHICH PAPER HE/SHE HAS TO APPEAR/LEFT ON THE SCHEDULED DATE. FOR DETAILED INFORMATION PLEASE CONTACT 0172-2534810/2541303.

**Chandigarh:** 160014                                                         **Prof. Parvinder Singh**
**Dated:** 04.04.2019                                                         **Controller of Examinations**

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