

12. SPECIAL CENTRE FOR STUDY OF NORTH EAST INDIA

The pattern of JNUEE 2020-21 will be based on Multiple Choice Questions (MCQs) through Computer Based Test (CBT)

M.Phil. & Ph.D.

Sl. No.	Name of Centre	Sub. Code & Sub. Code Number	Syllabus for Entrance Examination
1	Special Centre for the Study of North East India (SCSNEI)	North East India Studies- NESP (175) & NESH (882)	<ul style="list-style-type: none"> • Understanding North East India and its neighbouring areas: history, culture, society, politics, economic development, ecology and contemporary policies • Research Methodology: Various interdisciplinary methods such as approaches to social sciences, qualitative, quantitative, interpretative and historical methods • In addition to the above, the syllabus covers themes pertaining to North East India, such as religion and society, tribes and ethnicity, government and politics, economic development, frontiers and borderlands, and cultural histories.

13. SPECIAL CENTRE FOR MOLECULAR MEDICINE

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M.Sc. Programme

Sl. No.	Name of Centre	Sub. Code & Sub. Code Number	Syllabus for Entrance Examination
1	Centre for Molecular Medicine (SCMM)	Molecular Medicine- CMMM (233)	<p style="text-align: center;">Part A</p> <ol style="list-style-type: none"> 1. Basic Maths; 10th level geometry, PC, statistics, Arithmetic, Log, Basic knowledge of Computer science. 2. Chemistry: Concept of Molarity, Normality, Periodic Table, Organic Chemistry, Synthesis, Thermodynamics, Entropy, Enthalpy, Free energy, Law of Mass action, Reaction kinetics 3. Physics: Newton's law, radioactivity, Electricity, capacitance, optics, sound, gravity, spectroscopy. 4. Basic Biology: Zoology/Botany - classification/Evolution Biology/Population Biology. 5. General Aptitude and reasoning. 6. General awareness. <p style="text-align: center;">Part B</p> <p>Section 1 ; Biochemistry: Metabolism, Nutrition, Biomolecules, Hormones, Enzymes, Omics.</p> <p>Section 2 ; Microbiology: Bacterial genetics, Antibiotics mode of action, Infectious disease, Industrial Biotechnology .</p> <p>Section 3; Physiology, Diseases, Pharmacology, Genetics, Molecular Biology, Developmental biology, Zoology, Population genetics.</p> <p>Section 4 ; Botany: Molecular Biology.</p> <p>Section 5 ; Advanced Chemistry, Spectroscopy, Molarity/Normality, Radioactivity, Atomic Structure, Acid base, pH.</p>

			<p>Section 6 ; Medicinal Chemistry: Drug-receptor interaction, DNA, Protein, Hormones as receptor, Pharmacokinetics, G-protein coupled receptor, Pharmacodynamics.</p> <p>Section 7 ; Cell biology: Organelles, Cell-Cell interaction, Cell signalling/ trafficking, Cell cycle.</p> <p>Section 8; Drug/ Drug resistance.</p> <p>Section 9; Immunology: Basic immunology .</p> <p>Section 10; Aptitude, Bioinformatics ,Others .</p>
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Ph.D.

Sl. No.	Name of Centre	Sub. Code & Sub. Code Number	Syllabus for Entrance Examination
1	Centre for Molecular Medicine (SCMM)	Molecular Medicine-CMMH (905)	<p>Section A; General Aptitude/Research Methodology Section B; Different Subject Areas of Molecular Medicine Section A</p> <p>Aptitude / Research Methodology Basic Maths ; geometry, statistics, Arithmetics, Log, Basic knowledge of Computer science. Chemistry: Concept of Molarity, Normality, Related to Periodic Table, Organic Chemistry, Synthesis, Thermodynamics, Entropy, Enthalpy, Free energy, Law of Mass action, Reaction kinetics Physics ;Newton's law, radioactivity, Electricity, capacitance, optics, sound, gravity, spectroscopy. Basic Biology; Zoology/Botany - classification/Evolution Biology/Population Biology, General Aptitude and reasoning.</p> <p>Section B Biochemistry: Metabolism, Nutrition, Biomolecules, Hormones, Enzymes, Omics. Microbiology: Bacterial genetics, Antibiotics mode of action, Infectious disease, Industrial Biotechnology. Physiology, Diseases, Pharmacology, Genetics, Molecular Biology, Developmental Biology, Zoology, Population genetics. Botany, Molecular Biology, Advanced Chemistry; Spectroscopy, Molarity/Normality, Radioactivity, Atomic Structure, Acid base, pH. Medicinal Chemistry: Drug-receptor interaction, DNA, Protein, Hormones as receptor, Pharmacokinetics, G-protein coupled receptor, Pharmacodynamics. Cell biology: Organelles, Cell-Cell interaction, Cell signalling/ trafficking, Cell cycle. Drug resistance. Immunology</p>

14. CENTRE FOR THE LAW & GOVERNANCE

The pattern of JNUEE 2020-21 will be based on Multiple Choice Questions (MCQs) through Computer Based Test (CBT)

M.Phil & Ph.D.

Sl. No.	Name of Centre	Sub. Code & Sub. Code Number	Syllabus for Entrance Examination
1	Centre for the Law & Governance (CSL&G)	Law & Governance – CLGP (171) & CLGH (907)	<p>The test will have a 50% weight for social science research methods and 50% weight for domain knowledge covering the disciplines of Economics, Political Science, Sociology, Public Administration, Anthropology, and Law. The questions will be at the level of an advanced Masters and all candidates will be required to attempt questions from all these disciplines.</p> <p>The broad coverage of the subject areas of these disciplines are as follows:"</p> <ul style="list-style-type: none"> • Political Science: concept and theories of governance; theories of the State, democracy and development; decentralisation; global governance; politics of identity; multilevel governance; civil society and social capital; neoliberalism and globalisation; social justice; gender, development and governance; and, public administration.