

KUMAUN UNIVERSITY, NAINITAL
REVISED Programme of M.A./M.Sc. - IV Semester
Main/Ex-Student/Back/Improvement Examination - 2020

Time : 11.00 AM-01.00 PM

Date & Day	Subject	Paper No. Paper Code and Paper Name
21/09/2020 (Monday)	<u>English</u>	I- (1441)- 20 th Century Literary Criticism and Theory
	<u>Economics</u>	I- (1241) - Advanced Macro Economics-II
	<u>Hindi</u>	XIII- (1641)- कुमाऊँनी साहित्य OR
		XIII- (1642) - उत्तराखण्ड के हिन्दी कवि OR
		XIII- (1643) - उत्तराखण्ड के हिन्दी कथाकार
	<u>History</u>	Ancient / Archaeology/ Medieval & Modern Indian Group I- (1741/1841/1941) - Modern World History (A.D. 1871-1945)
	<u>Sanskrit</u>	I- (2741) - व्याकरण एवम् निबन्ध
	<u>Political Science</u>	I- (7141) - Contemporary Political Philosophy
	<u>Sociology</u>	I- (2841) - Modern Sociological Perspective
	<u>Education</u>	I- (1341) - Educational Measurement and Evaluation
	<u>Drawing & Painting</u>	XIII- (1141) - European High Renaissance Painting
	<u>Psychology</u>	I- (2641) - Theories of Personality
22/09/2020 (Tuesday)	<u>Home Science</u>	I- (2041) - Indian Embroidery and Textile
	<u>Music</u>	I- (2241)- Applied Theory of Music (Tabla) OR
		I- (7041) - Applied Theory of Music (Sitar)
		I- (2441) - Applied Theory of Music (Vocal)
	<u>Geography</u> (M.A. / M.Sc.)	I- (1541/4541) - Advanced Geography of Uttarakhand
	<u>Botany</u>	XIV- (4142) - (i) Forest Ecology OR
		XIV- (4143) - (ii) Plant Pathology OR
		XIV- (4144) - (iii) Taxonomy of Angiosperms OR
		XIV- (4145) - (iv) Ethnobotany, Traditional Knowledge and Intellectual Property Right OR
		XIV- (4146) - (v) Bryology OR
	<u>Chemistry</u>	III- (4245) - Inorganic Chemistry (Environmental Chemistry) OR
		II- (4252) - Organic Chemistry (Chemistry of Natural Products and Heterocycle Compounds) OR
		II - (4262) - Physical Chemistry (Advanced Chemical Dynamics and Thermodynamics) - II
	<u>Zoology</u>	II- (5142) - (A) Fish and Fisheries (Applied Ichthyology) OR
		II- (5144) - (B) Entomology (Biology of Insect : Morphology Physiology and Developmental Biology)-II (b) OR
		II- (5146) - I (C) Immunology (Applied Immunology) OR
		II- (5150) - I (D) Animal Biotechnology (Transgenics, Cloning & IPR)

	<u>Physics</u>	II (a) - (4946) - Advanced Electronics -II II (b) - (4947) - High Energy Physics-II II (c) - (4948) - Spectroscopy-II II (d) - (4949) - Astrophysics-II II (e) - (4950) - Advanced Condensed Matter Physics-II	<u>OR</u> <u>OR</u> <u>OR</u> <u>OR</u>
	<u>Statistics</u> (M.A. / M.Sc.)	II - (5042 / 2942) - Statistical Computing	
	<u>Defence Studies</u> (M.A. / M.Sc.)	II- (3042) - Geo-Politics & Military Geography	
	<u>Information Technology</u>	II- (4742) - Management Information System	
	<u>Forestry</u>	II - (4442)- Forest Plantation and Bio-fuels	
	<u>Mathematics</u> (M.A./M.Sc.)	I - (5341) - Dynamics of Rigid Bodies	
23/09/2020 (Wednesday)	<u>English</u>	II- (1442) - Indian Literature in English after 1960	
	<u>Economics</u>	II- (1242) - International Economics - II	
	<u>Hindi</u>	II- (1644) - लोक साहित्य II- (1645) - कुमाऊँनी लोक साहित्य	<u>OR</u>
	<u>History</u>	<u>Ancient / Archaeology/ Medieval & Modern Indian Group</u> II- (1742/1842/1942) - Indian National Movement (AD 1919-1950)	
	<u>Sanskrit</u>	II- (2742) - संस्कृत नाट्य एवं चम्पू काव्य	
	<u>Political Science</u>	II- (7142) - Political Thought from Lenin to Rawls	
	<u>Sociology</u>	II- (2842) - Sociology of Development in Indian Context	
	<u>Education</u>	II- (1342) - Population Management, Planning and Organization	
	<u>Drawing & Painting</u>	XIV- (1142) - History of Modern European Painting	
	<u>Psychology</u>	II- (2642) - Counselling Psychology	
	<u>Home Science</u>	II- (2042) - Housing and Interior Decoration	
	<u>Music</u>	II- (2242) - General Theory of Music (Tabla) II- (7042) - General Theory of Music (Vocal) II (2442) - General Theory of Music (Sitar)	<u>OR</u>
24/09/2020 (Thursday)	<u>Geography</u> (M.A. / M.Sc.)	II- (1542 / 4542) - Population Geography & Human Resource Development	
	<u>Chemistry</u>	III - (4253) - Organic Chemistry (Medicinal Chemistry) III - (4243) - Inorganic Chemistry (Inorganic Polymers & Supramolecular Chemistry) - II III- (4263) - Physical Chemistry (Advanced Photochemistry and Nuclear Chemistry)	
	<u>Statistics</u> (M.A. / M.Sc.)	III - (2926 / 5043) - Econometrics	
	<u>Defence Studies</u> (M.A. / M.Sc.)	III - (3043) - Defence Psychology	
	<u>Forestry</u>	III(ii) - (4443) - Environmental Impact Assessment and Management	
	<u>Geology</u>	II- (4642) - Tectonic Geomorphology	
	<u>Mathematics</u> (M.A./M.Sc.)	II - (5342) - Functional Analysis	
	<u>English</u>	III-(1491)- (i) Post Second World War : American Literature-B III-(1492)- (ii) Post Independence : Indian Literature in Translation-B III-(1493)- (iii) Applied Linguistics and Stylistics- B	<u>OR</u> <u>OR</u>

25/09/2020 (Friday)	<u>Economics</u>	III - (1243) - Economics of Growth & Development II	
	<u>Hindi</u>	विशिष्ट अध्ययन XV - (1681) - (क) प्रेमचन्द XV - (1683) - (ग) कबीरदास XV - (1684) - (घ) सूरदास XV - (1685) - (ङ) सुमित्रानन्दन पंत	OR OR OR OR
	<u>History</u>	Ancient / Archaeology Group III- (1743/1843) - Society and Culture of India (320 AD-1200 AD) Medieval & Modern Indian Group III- (1943)- Society and Culture of India (1708 AD-1950)	
	<u>Sanskrit</u>	III - (2744) - काव्य-शास्त्र	
	<u>Political Science</u>	III - (7143) - Post Cold War International Relations	
	<u>Sociology</u>	III - (2843) - Gender and Society	
	<u>Education</u>	IV - (1343) - Population & Value Education	
	<u>Psychology</u>	III - (2643) - Psychopathology -II	
	<u>Home Science</u>	III - (2043) - Entrepreneurship Development	
	<u>Geography</u> (M.A. / M.Sc.)	III - (1543 / 4543) - Biogeography	
	<u>Chemistry</u>	IV - (4244) - Inorganic Chemistry (Photo Inorganic Chemistry)	
26/09/2020 (Saturday)	<u>Forestry</u>	IV (iv)- (4444-b) - Forest Tree Sheet IV (iv)-(4444-c) - Environmental Science	OR
	<u>Defence Studies</u> (M.A. / M.Sc.)	IV - (3044) - Area Studies of South Asia in the context of any two selected countries	
	<u>Geology</u>	III - (4643) - Mineral Exploration and Mineral Economics	
	<u>Mathematics</u> (M.A./M.Sc.)	III - (5343) - Calculus of Variation and Integral Equations	
	<u>Economics</u>	IV - (1281) - Research Methodology and Essay-IV(i) IV - (1283)- Agriculture Economics - IV (iii) IV - (1284) - Labour Economics - IV (iv) IV - (1287) - Advanced Statistics - IV (vii) IV - (1288) - Demography - IV (viii) IV - (1289) - Industrial Economics - IV (ix) IV - (1295) - History of Economics Analysis - IV (xv)	OR OR OR OR OR OR OR
28/09/2020 (Monday)	<u>Political Science</u>	IV - (7144) - Human Rights IV (i) IV - (7145) - International Organisation - IV (ii) IV - (7147) - Research Methodology - IV (iv)	OR OR
	<u>Sociology</u>	IV - (2844) - Social Demography	
	<u>Psychology</u>	IV - (2644) - Psychotherapies	
	<u>Home Science</u>	IV - (2044) - Community Nutrition and Public Health	
	<u>Geography</u> (M.A. / M.Sc.)	IV- (1544/4544) - (a) Integrated Watershed Management IV- (1545/4545)- (b) GIS & GPS Applications IV- (1546/4546)- (c) Disaster Management	OR OR
	<u>Botany</u>	XIII- (4141) - Plant Resource, Utilization and Conservation of Biodiversity	
	<u>Chemistry</u>	I- (4242) - Inorganic Chemistry-I (General & Organometrics Chemistry) I- (4251) - Organic Chemistry-I (Organic Synthesis)	OR OR

29/09/2020 (Tuesday)		I- (4261) - Physical Chemistry-I (Physical Organic and Quantum Chemistry)
	<u>Zoology</u>	I- (5141) - I (a) - Fish and Fisheries (General and Ichthyology) <u>OR</u> I- (5143) - I (b)- Entomology (Systematics and Applied Entomology) I- (5145) - I (c) Immunology (Fundamental of Immunology) <u>OR</u> I- (5149) - I (c) Animal Biotechnology (Animal Cell Culture)
	<u>Physics</u>	XV- (4941) - I (A) - Advanced Electronics -I <u>OR</u> XV- (4942) - I (B) - High Energy Physics-I <u>OR</u> XV- (4943) - I (C) - Spectroscopy-I <u>OR</u> XV- (4944) - I (D) - Astrophysics-I <u>OR</u> XV- (4945) - I (E) - Advanced Condensed Matter Physics-I
	<u>Statistics</u> (M.A. / M.Sc.)	I- (5041/2941) - Stochastic Process and Reliability Theory
	<u>Defence Studies</u> (M.A. / M.Sc.)	I- (3041) - Defence Economics
	<u>Information Technology</u>	I - (4741) - Advanced Java
	<u>Forestry</u>	I-(4441) - Forest Products and Industries
	<u>Geology</u>	I- (4641) - Engineering Geology
	<u>Mathematics</u> (M.A./M.Sc.)	IV & V (iv) - IV(ii) - (5372) Riemannian Geometry
	<u>Mathematics</u> (M.A./M.Sc.)	IV (iv) - IV(iv) 5374 - Operation Research
30/09/2020 (Wednesday)	<u>Political Science</u>	IV - (7146) - International Law
	<u>Geology</u>	IV(a) (4644) - Himalayan Geology IV(b) (4645) - Paleo Climatology
01/10/2020 (Thursday)	<u>Mathematics</u> (M.A./M.Sc.)	IV & V (i) - IV(i) - (5371) - Relativity IV & V (iv) - IV(ix) - (5379) - Dynamical System IV & V (iii) - IV(iii) - (5373) - Advanced Abstract Algebra
03/10/2020 (Saturday)	<u>Mathematics</u> (M.A./M.Sc.)	IV & V (v) - IV(v) - 5375 - Statistical Analysis IV & V (vii) - IV(vii) - 5377 - Design and Analysis of Algorithm
05/10/2020 (Monday)	<u>Mathematics</u> (M.A./M.Sc.)	IV & IV (vi) - IV(vi) - 5376 - Theory of Computation IV & IV (viii) - 5378 Coding Theory

Note - No guarantee can be given to the candidates regarding the order of the question papers.

Place: Nainital
Date :08-09-2020

Controller of Examinations
Kumaun University, Nainital