

# Bachelor of Arts (B.A) 3 Years Degree Course

## Hindi (Literature)

बी० ए० प्रथम वर्ष प्रथम प्रश्न-पत्र	प्राचीन एवं मध्य कालीन काव्य	<ul style="list-style-type: none"><li>● कबीर: साखी ज्ञान विरह, परचा सुमरिन विरह चिताकणी माया के अंगो का</li><li>● जायसी पदमावत, नागमती का विरह खण्ड</li><li>● सूरदास विनय के पद, बाल लीला के पद, भ्रमर गीत के पद</li><li>● तुलसी- रामचरित मानस-बालकाण्ड-पुष्पवाटिका प्रसंग कवितावली के पद अयोध्याकाण्ड</li><li>● विनयपत्रिका के पद, बिहारीलाल- सोरठा, एवं दोहा, भूषण-सवैया छन्द धनानन्द-रचित छंद</li><li>● द्रुत पाठ-सरहपा, अब्दुर्रहमान, चन्दवरदाई, अमीर खुसरो।</li></ul>
द्वितीय प्रश्न-पत्र	हिन्दी नाट्य साहित्य	<ul style="list-style-type: none"><li>● जयशंकर प्रसाद: ध्रुवस्वामिनी, मोहन राकेश: आधे-अधूरे एकांकी- औरंगजेब की आखिरी रात-डॉ० राम कुमार वर्मा</li><li>● भुवनेश्वर-स्ट्राइक, जगदीश चन्द्र माथुर-भोर का तारा।</li><li>● लक्ष्मी नारायण लाल-मम्मी ठकुराइन, उदयशंकर भट्ट-नये मेहमान,उपेन्द्र नाथ अशक-सूखी डाली, विष्णु प्रभाकर-सीमा रेखा द्रुत पाठ-भारतेन्दु हरिश्चन्द्र, हरिकृष्ण प्रेमी, लक्ष्मीनारायण मिश्र, धर्मवीर भारती।</li></ul>

बी० ए० द्वितीय वर्ष प्रथम प्रश्न-पत्र	आधुनिक हिन्दी काव्य	<ul style="list-style-type: none"><li>● मैथिलीशरण गुप्त साकेत का अष्टम सर्ग।</li><li>● जय शंकर प्रसाद श्रद्धा सर्ग अथवा पाँच कविताएँ।</li><li>● सूर्यकान्त त्रिपाठी निराला सरोज स्मृति अथवा पाँच कविताएँ।</li><li>● सुमित्रानंदन पंत पाँच कविताएँ, महादेवी वर्मा, पाँच गीत रामधारी दिनकर पाँच कविताएँ।</li><li>● द्रुत पाठ- श्रीधर पाठक, माखन लाल चतुर्वेदी, बालकृष्ण शर्मा 'नवीन', सुभद्रा कुमारी चौहान।</li></ul>
द्वितीय प्रश्न-पत्र	हिन्दी कथा साहित्य	<ul style="list-style-type: none"><li>● भगवतीचरण वर्मा-चित्रलेखा उपन्यास, श्री लाल शुक्ल-रामदरबारी उपन्यास, कहानी-प्रेमचन्द-कफन, जयशंकर प्रसाद-गुण्डा मन्नू भण्डारी-यही सच है, भीष्म साहनी-चीफ की दावत, फणीश्वर नाथ रेणु-मारे गए गुलफाम उर्फ तीसरी कसम, कमलेश्वर-राजा निरवंसिया, ओमप्रकाश वाल्मीकि-पचीस चौका डेढ़ सौ।</li></ul>

<p>बी० ए० तृतीय वर्ष</p> <p>प्रथम प्रश्न-पत्र</p>	<p>अद्यतन काव्य</p>	<ul style="list-style-type: none"> <li>● सच्चिदानंद हीरानंद वात्स्यायन अज्ञेय-कविताएं, शमशेर बहादुर सिंह-कविताएं, भवानी प्रसाद मिश्र- कविताएं, गजानन माधव मुक्तिबोध- कविताएं, धर्मवीर भारती- कविताएं, नरेश मेहता-कविताएं, द्रुतपाठ-केदारनाथ अग्रवाल, शिवमंगल सिंह सुमन,दुष्यंत कुमार, आलोक धन्वा ।</li> </ul>
<p>द्वितीय प्रश्न-पत्र</p>	<p>हिन्दी निबन्ध तथा अन्य विधाएं</p>	<ul style="list-style-type: none"> <li>● निबंध- बालमुकुंद गुप्त-शिवशम्भु के चिट्ठे, आचार्य महावीर प्रसाद द्विवेदी-कवियों की उर्मिला विषयक उदासीनता ।</li> <li>● आचार्य रामचन्द्रशुक्ल-लज्जा और ग्लानि, आचार्य हजारी प्रसाद द्विवेदी-कुटज, नन्ददुलारे बाजपेयी-छायावाद, विद्यानिवास मिश्र-तुम चंदन हम पानी, रामविलास शर्मा-सौन्दर्य की उपयोगिता ।</li> <li>● गद्य विधाएँ- महादेवी वर्मा- "भक्तिन" विष्णुकांत शास्त्री-सुधियां उस चन्दन वन की, श्री कांत वर्मा-अपोलो का रथ, विष्णु प्रभाकर-ज्योति पुजं हिमालय, हरिशंकर परसाई-अपनी- अपनी हैसियत ।</li> <li>● द्रुत पाठ- कुबेरनाथ राय, शरदजोशी, विवेकीराय, रघुवीर सहाय ।</li> </ul>
<p>तृतीय प्रश्न-पत्र</p>	<p>क्षेत्रीय भाषा और साहित्य</p>	<ul style="list-style-type: none"> <li>● सत्यनारायण "कविरत्न", गया प्रसाद शुक्ल "सनेही", जगन्नाथ दास 'रत्नाकर', डॉ० जगदीश गुप्त ।</li> </ul>

# Hindi (General)

<p>बी0 ए0 प्रथम वर्ष</p> <p>प्रथम प्रश्न-पत्र</p>	<p>हिन्दी भाषा का विकासात्मक परिचय</p>	<ul style="list-style-type: none"> <li>• अपभ्रंश और पुरानी हिन्दी का सम्बन्ध, हिन्दी की उपभाषाओं का सामान्य परिचय, काव्य भाषा के रूप में हिन्दी का विकास अवधी का विकास, ब्रज का विकास, खड़ी बोली का विकास।</li> <li>• राष्ट्रभाषा के रूप में हिन्दी का विकास, खड़ी बोली या सम्पर्क भाषा के रूप में विकास, राजभाषा- तात्पर्य एवं महत्व, राष्ट्रभाषा हिन्दी की समस्याएं।</li> <li>• देवनागरी लिपि, संक्षिप्त इतिहास, वैज्ञानिकता, सीमाएं और सम्भावनाएं, वर्तमान संदर्भ में सार्थकता।</li> </ul>
<p>द्वितीय प्रश्न-पत्र</p>	<p>हिन्दी का व्याकरणिक स्वरूप</p>	<ul style="list-style-type: none"> <li>• हिन्दी ध्वनियों का स्वरूप-स्वर और व्यंजन, संज्ञा,सर्वनाम, क्रिया,विशेषण वाक्य संरचना।</li> <li>• हिन्दी शब्द समूह, हिन्दी शब्द संरचना- पर्यायवाची, समानार्थक, विलोमार्थक, अनेकार्थक, अनेक शब्दों के स्थान पर एक शब्द, समूहार्थक शब्दों के प्रयोग, निकटार्थी शब्दों के सूक्ष्म अर्थभेद, समानार्थक शब्दों के भेद।</li> <li>• लिंग विधान और कारक प्रयोग-(क) वर्तनी, (ख) विराभादि चिन्हों के प्रयोग (ग) मुहावरे और लोकोक्तियों तथा उनके रचनात्मक प्रयोग, उपसर्ग, प्रत्यय।</li> </ul>

<p>बी0 ए0 द्वितीय वर्ष</p> <p>प्रथम प्रश्न-पत्र</p>	<p>प्रयोजन मूलक हिन्दी का स्वरूप</p>	<ul style="list-style-type: none"> <li>• प्रयोजनमूलक हिन्दी की अवधारणा एवं विकास, टिप्पणी, अलेखन, हिन्दी पत्राचार, कार्यालयी पत्राचार, वाणिज्यिक पत्राचार, पारिभाषिक शब्दावली का सैद्धांतिक परिचय, व्यवहार संक्षेपण एवं पल्लवन।</li> </ul>
<p>द्वितीय प्रश्न-पत्र</p>	<p>हिन्दी की आधुनिक गद्य विधाएं</p>	<ul style="list-style-type: none"> <li>• कहानी-प्रेमचन्द्र-बड़े भाई साहब, रेखचित्र-महादेवी वर्मा-गिल्लू, संस्मरण काशीनाथ सिंह-घर का जोगी जोगड़ा, रिपोर्ताज-फणीश्वरनाथ रेणु-ऋण,जल,धन जल, यात्रावृत्तांत-अज्ञेय-अरे यायावर रहेगा याद का एक अंश डायरी-रघुवीर सहाय दिल्ली मेरा परदेश, आत्मकथा-ओमप्रकाश वाल्मीकि-जूठन का एक अंश, व्यंग्य-हरिशंकर परसाई-स्वर्ग में विचार सभा का अधिवेशन।</li> </ul>

<p>बी० ए० तृतीय वर्ष</p> <p>प्रथम प्रश्न-पत्र</p>	<p>संचार माध्यमों में हिन्दी प्रयोग</p>	<ul style="list-style-type: none"> <li>● जनसंचार माध्यम में भाषा की प्रकृति-बोधगम्यता एवं सम्प्रेषण की समस्या,मानकीकरण,आधुनिक और शैलीकरण की समस्या, समचार पत्रों की हिन्दी-समसामयिक सूचनाओं का भाषा पर दबाव तथा समाचार की भाषा प्रकार्य की दृष्टि से भाषा के विविध रूप, दूरदर्शन की हिन्दी-दृश्य-श्रव्य सारणिका, हिन्दी भाषा पर प्रभाव, मनोरंजन तथा दूरदर्शन और फिल्मों की, हिन्दी भाषा, आंगिक, वाचिक अभिव्यक्ति संवाद की सहभागिता फिल्म तथा दूरदर्शन की भाषा में अंतर, विज्ञापनों की हिन्दी-विज्ञापनों की दुनिया,विज्ञापनों की सफलता में भाषा का योगदान,भाषागत विशेषताएं।</li> <li>● आकाशवाणी की हिन्दी-हिन्दी का विकास और आकाशवाणी की भाषा,मौखिक भाषा की प्रकृति, तान-अनुतान की समस्या,मानक उच्चारण प्रस्तुतीकरण की स्वाभाविकता,समाचार पठन, भाषा का वैयक्तीकरण।</li> </ul>
<p>द्वितीय प्रश्न-पत्र</p>	<p>अनुवाद सैद्धांतिक और व्यावहारिक परिचय</p>	<ul style="list-style-type: none"> <li>● अनुवाद-स्वरूप और क्षेत्र, अनुवाद का व्यापक संदर्भ, अन्तर भाषिक अनुवाद की प्रक्रिया, अनुवाद का भाषा वैज्ञानिक एवं व्यावहारिक संदर्भ।</li> <li>● अनुवाद प्रक्रिया- अनुवाद प्रक्रिया के तीन पहलू-विश्लेषण, अन्तरण और पुनर्गठन, अनुवाद की तीन भूमिकाएं-पठन भूमिका और अर्थ ग्रहण की प्रक्रिया।</li> <li>● द्विभाषिक की भूमिका और अर्थान्तरण की प्रक्रिया, रचयिता की भूमिका का अर्थ सम्प्रेषण, अनुवाद के प्रकार-पाठानुवाद, पूर्ण एवं आंशिक अनुवाद, शाब्दिक अनुवाद, भावानुवाद, छायानुवाद, पद्यानुवाद एवं गद्यानुवाद।</li> <li>● अनुवाद का व्यावहारिक पक्ष-साहित्यिक अनुवाद की समस्याएं,वैज्ञानिक साहित्य के अनुवाद की समस्याएं, कार्यालयी साहित्य के अनुवाद की समस्याएं, व्यावहारिक पक्ष-हिन्दी से अंग्रेजी एवं अंग्रेजी से हिन्दी अनुवाद के सरल अंश।</li> </ul>
<p>तृतीय प्रश्न-पत्र</p>	<p>हिन्दी भाषा और साहित्य का इतिहास तथा काव्यांग परिचय</p>	<ul style="list-style-type: none"> <li>● हिन्दी भाषा का स्वरूप एवं विकास, हिन्दी साहित्य के आदिकाल,भक्तिकाल,रीतिकाल की परिस्थितियां और प्रवृत्तियां, प्रतिनिधि रचनाकार और उनकी प्रतिनिधि कृतियां,आधुनिक काल-भारतेन्दु युग,द्विवेदी युग, छायावाद, प्रगतिवाद, प्रयोगवाद, नई कविता की प्रवृत्तियां और प्रमुख कवि, गद्य की प्रमुख विधाएं-कहानी, निबन्ध, उपन्यास, नाटक का उद्भव और विकास, काव्यांग परिचय: काव्य स्वरूप, काव्य हेतु, काव्य प्रयोजन।</li> <li>● रस-रस तथा उसके अवयवों का सामान्य परिचय, अलंकार-यमक, श्लेष, उपमा, उत्प्रेक्षा, रूपक, असंगति, विभावना, विशेषोक्ति, अपहृति, व्यतिरेक, प्रतीप, बरवै, सवैया, रोला, कवित्त, दोहा, चौपाई, सोरठा।</li> </ul>

# English Literature

<b>B.A I</b>  <b>Paper I</b> <b>101</b>	<b>Poetry</b>	<b>Forms of Poetry, Stanza Forms</b> William Shakespeare: 'True Love', John Donne: 'Presents in Absence', Michael Drayton: 'Since there's no help', Alexander Pope: 'Essay on Man', Thomas Gray: 'Elegy Written in a Country Churchyard', William Blake: 'Tiger', William Wordsworth: 'The World is Too Much With Us', P.B. Shelley: 'Lament', Robert Bridges: 'Nightingales',
<b>Paper II</b> <b>102</b>	<b>Prose</b>	<b>Theory of Prose.</b> Francis Bacon- 'Of Studies', Joseph Addison - 'Sir Roger at Church', Oliver Goldsmith - 'Man in Black', Charles Lamb - 'Dream Children', Doctor Johnson- 'Letter to Lord Chesterfield', G.K. Chesterton- 'On Running After One's Hat', R.L. Stevenson- 'An Apology For Idlers', A.G. Gardiner- 'On the Rule of the Road', Robert Lynd- 'A Disappointed Man', J.B. Priestley: 'On Doing Nothing', Hilaire Bellock: 'On Spellings', E.V. Lucas: 'Bores'.

<b>B.A II</b>  <b>Paper I</b> <b>201</b>	<b>Drama</b>	<b>Theory of Drama,</b> William Shakespeare: 'Othello', William Congreve: 'The Way of the World', G.B Shaw: 'St. John'.
<b>Paper II</b> <b>202</b>	<b>Fiction</b>	<b>Elements of Fiction,</b> Jane Austen: 'Pride and Prejudice', Charles Dickens: 'Oliver Twist', Thomas Hardy: 'The Return of the Native'.

<b>B.A III</b> <b>Paper I</b> <b>301</b>	<b>History Of English Literature:</b>	The Renaissance Age ( 1500-1660) The Neo-Classical Age (1160-1785) The Romantic Age (1785-1832) The Victorian Age (1832-1901) The Modern Age (1901-1945)
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<b>Paper II</b> <b>302 (A)</b>	<b>Indian Writing</b> <b>In English</b>	<b>Poetry:</b> Nissim Ezekiel- 'A Poem of Dedication' , Jayant Mahapatra- 'Hunger', Vikram Seth- 'Unclaimed', A.K. Ramanujan-'Anxiety', Keki N. Daruwala- 'The Unrest of Disire', <b>Drama:</b> Mahesh Dattani- 'Seven Steps Around the Fire', <b>Fiction:</b> Mulk Raj Anand- 'The Untouchable', <b>Prose:</b> Mahashweta Devi- 'Draupadi'.
<b>Paper III</b> <b>303</b>	<b>New Literature</b> <b>In English</b>	<b>Australian Literature ( Poetry)</b> W.C. Wentworth- 'A Wild Colonial Boy' Ada Cambridge- 'An Answer' Chris Wallace- 'Melbourne' Kevin Gilbert-'Mister Man' <b>American Literature (Drama)</b> Edward Albee- 'The Zoo Story' <b>Canadian Literature (Fiction)</b> Margaret Atwood- 'Bodily Harm' <b>African American Literature (Prose)</b> Alice Walker - 'In Search of Our Mother's Garden'.

## General English

<b>B.A I</b>  <b>Paper I</b> <b>101</b>	<b>Essay Text</b>	C.E.M Joad - Civilization and History and History, Issac Asimov - The Fun They Had, Desmond Morris - An Observation And An Explanation, M.W Thring - A Robot About The House, Rabindranath Tagore - A Wrong Man in Workers' Paradise, L. Dudley Stamp - Using Land Wisely, Short Stories- Guy De Maupassant - The Diamond Necklace, R.K. Narayan - An Astrologer's Day, Mulk Raj Anand - A Pair Of Mustachios, O' Henry - The Gift Of the Magi, R.N Tagore - The Home-Coming, Leo Tolstoy - Three Questions, Somerset Maugham - The Luncheon,
<b>Paper II</b> <b>102</b>	<b>Applied Grammar</b>	Passage for précis writing, Translation of a Passage From Hindi to English, Narration, Use of Tenses, Use of Infinitive, Gerund, Participle, Conditional Sentences, Right use of Words.

<b>B.A II</b>  <b>Paper I</b> <b>201</b>	<b>Essays</b>	Herbert Read - Work & Play, J.B.S Haldane - The Laws of Nature, Aldous Huxley - Individuals And Masses, Rumer Godden - Children at Play, Jerome K. Jerome - Symptoms, Bertrand Russell - How To Avoid Foolish Opinions, Novelette - George Orwell - Animal Farm.
<b>Paper II</b> <b>202</b>	<b>Writing Skills</b>	Essay Writing, Letter Writing, Journalistic Writing, Story Writing, C.V. Writing, Punctuation, Substitution, Idioms And Phrases.

<b>B.A III</b>  <b>Paper I</b> <b>301</b>	<b>Essays</b>	Aurobindo Ghosh - Essence of Poetry, R.K. Narayan - Crime And Punishment, M.K. Gandhi - Spiritual Training, Jawahar Lal Nehru - Homage To Gandhi, Swami Vivekanand - Chicago Address, Dr. S. Radhakrishnan - Clean Advocate of Great Ideals.
<b>Paper II</b> <b>302</b>	<b>Communication For Business And Media</b>	Basic Communication, Business Communication, Language Sensitivity, Media And Communication, Writing For Electronic Media, Writing for Electronic

		Media.
<b>Paper III 303</b>	<b>Comprehension Skills</b>	Comprehension, Verbal Logic And Reasoning, Grammar And Usage Application of Grammatical Rules and Emphasis on Correct Usage, Para Jumbles to Check Logical Reasoning Along With Good Understanding of the Language.



# Urdu

<p><b>B.A I</b> <b>Paper I</b> <b>101</b></p>	<p><b>Fiction (Novel, Afsana)</b></p>	<ul style="list-style-type: none"> <li>• Novel- Taubat-un Nasuh or Ibnul waqt- Molvi Nazir Ahmad.</li> <li>• Mandarjazel Afsane: Kafan- Premchand, Noor o Nar- Ali Abbas Husaini, Kaloo Bhangi- Krishan Chander, Babbal- Rajinder Singh Bedi, Toba Tek Singh- Saadat Hasan Manto, Ishq Par Zor Nahin- Ismat Chughtai, Yeh Ghazi Yeh Tere Purisar Banday- Qurratulain Hyder.</li> </ul>
<p><b>Paper II</b> <b>102</b></p>	<p><b>Nazm</b></p>	<ul style="list-style-type: none"> <li>• Mundarjazel Nazmen: - <b>Nazeer Akbarabadi</b>- Aadmi Nama, Holi, Barsat ki Baharain, <b>Hali</b>- Marsiya Dilli, Musaddas-e Maddo Jazar-e-Islam, <b>Akbar Allahabadi</b>- Farzi Lateefa, Mustaqbil, Madarsa Aligarh, <b>Suroor Jahanabadi</b>- Padmani, Uroose Hubbe Watan, <b>Chakbast</b>- Ramayan Ka Ek Seen, Awaaz-e-Qaum, - <b>Iqbal</b>- Shua-e-Ummeed, Saqi nama, Lenin Khuda Ke Huzoor Mein, <b>Josh</b>- Shikaste Zindan ka Khwab, Badli Ka Chand, <b>Akhtar Sheerani</b>- Ek Nojawan But taraash ki Arzoo-, <b>Majaz</b>- Aawara, <b>Makhdoom</b>- Chand Taron Ka Ban, - <b>Faiz</b>- Tanhai, subh-e- Azadi, <b>Sahir</b>-Fankar, <b>Mulla</b>- Insaan, <b>Ali Sardar Jafri</b>- Ek Khwab Aur, <b>Akhtar- ul-Iman</b>- Ek Ladka.</li> </ul>

<p><b>B.A II</b> <b>Paper I</b> <b>201</b></p>	<p><b>Nasr (Prose)</b></p>	<ul style="list-style-type: none"> <li>• Mundarjazel Mazameen: Sir Syed Aur Urdu Literature- <b>Shibli Nomani</b>, Mirza Ghalib Ke Akhlaq-o-Aadaat- <b>Altaf Husain Hali</b>, Insan Kisi Haal mein Khush Nahi Rehta- <b>Mohammad Husain Azad</b>, Saf shikan Bater- <b>Ratan Nath Sarshar</b>, Umra-e-Rafta- <b>Sir Syed Ahmad Khan</b>, Intikhab Khatute Ghalib (Ibtidai 5 Khatut) - <b>Mirza Ghalib</b>, Jane Alam ka Tota- <b>Rajab Ali Beg Suroor</b>, Sair Pehle Darvesh ki- <b>Mir Amman</b>, Mujhe Mere Doston se Bachao- <b>Sajjad Haidar Yaldram</b>, Yarbash- <b>Farhat ullah Beg</b>, Lahore ka Geographia- <b>Pitras Bukhari</b>, Shaikh Peeru- <b>Rasheed Ahmad Siddiqui</b>, Hali- <b>Molvi Abdul Haq</b>, Urdu Literature ke Anasir-e-Khamsa- <b>Mehdi Afadi</b>, Adab ki Garzo Gaiyat- <b>Prem Chand</b>, Intikhab Rustam-o-Sohrab- <b>Agha Hashr Kashmiri</b>.</li> </ul>
<p><b>Paper II</b> <b>202</b></p>	<p><b>Ghazal</b></p>	<ul style="list-style-type: none"> <li>• Nisabi Kitab:-Intkhab e Manzumaat vol.2 by U.P Urdu Academy Lucknow.</li> <li>• Shora aur Ghazaliyat.</li> </ul>

		<ul style="list-style-type: none"> <li>• Wali ghazal no- 1,2,10,11,12, Dard ghazal no- 1,2,3,5,7, Meer ghazal no- 1,2,6,8,14, Aatish ghazal no- 2,5,8,9,10, Momin ghazal no- 1,2,4,7,8, Ghalib ghazal no- 2,5,6,9,16, Daagh ghazal no- 1,2,3, Shaad ghazal no- 1,2,5, Asghar ghazal no- 1,2,3, Faani ghazal no- 1,6,8, Hasrat ghazal no- 4,5,7, Yagana ghazal no- 1,3,6, Jigar ghazal no- 1,2,4, Firaq ghazal no- 1,2,3, Faiz ghazal no- 2,4,6.</li> </ul>
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<b>B.A III</b>  <b>Paper I</b> <b>301</b>	<b>Tareekh-e- Adab Urdu Aur Tanqeed</b>  <b>(History of Urdu Literature &amp; Criticism)</b>	<ul style="list-style-type: none"> <li>• Tareekh-e-Adab Urdu: Urdu zaban ki ibtidai nasho-wa-numa ka khaka, Fort William College ki adabi khidmaat, Dilli aur Lakhnau ke Dabistano ki khususiyat aur imteyazat, Sir Syed aur Aligarh tahreek, Taraqqi pasand tahreek, Jadidiyat ka rujhaan, Asnaf-e-adab Urdu.</li> <li>• Tanqeed: Nisabi Kutub.</li> <li>• Aab e Hayat by Mohd. Hussain Azad (Panchwan Daur).</li> <li>• Muqadma e Sher o Shayri by Hali (Sadgi-Asliyat-Josh).</li> <li>• Mawazna Anees o Dabeer by Shibli (Fasahat aur balaghat ki taarif o tafseel).</li> <li>• Urdu ki kahani by Ehtesham Hussain (Mukammal).</li> <li>• Asnaf e Adab by Khaliq Anjum &amp; Qamar Raees (Mukammal).</li> </ul>
<b>Paper II</b> <b>302</b>	<b>Qaseeda, Marsiya, Mas navi, Rubai</b>	<ul style="list-style-type: none"> <li>• Nisabi Kitab: intekhab e Manzumat (Vol 2) by U.P Urdu Academy, Lucknow.</li> <li>• Qaseeda: Sauda- Qaseeda Shahar Ashob, Zauq- Dar madah Bahadur Shah, Ghalib- Dar madah Bahadur Shah, Mohsin- Madeeh Khair ul Mursalin.</li> <li>• Marsiya, Anees : (Namak e khwane takallum hai fasahat meri), (Ibtidai 15 band) first 15 couplets, Dabeer: (Dast e Khuda ka quwwat e bazu Husain hai ), (Ibtidai 15 band) first 15 couplets.</li> <li>• Masnavi: Meer Hasan- Sahr ul Bayan (Talkhees) abstract.</li> <li>• Daya Shankar Naseem- Gulzar e Naseem (Talkhees) abstract.</li> <li>• Rubai: Anees, Ravaan , Amjad, Firaq ki 3-3 Rubai (3 Rubai each).</li> </ul>

<b>Paper III 303</b>	<b>Mazmoon, Tarjuma, Tareekh (Essay, Translation, History.)</b>	<ul style="list-style-type: none"><li>• Mazmoon: Nisaab me shamil tasneefat wa musannifeen se mutalliq.</li><li>• Tarjuma: Hindi se Urdu, Urdu se Hindi.</li><li>• Tareekh: Urdu zaban ki mukhtasar tareekh, Dilli aur Lakhnau ka numainda sheri Adab, Aligarh tahreek, urdu Sahafat ki tareekh (Sir Syed, Maulana Mohd. Ali Jauhar, Abul kalam Azad), Television aur Urdu.</li></ul>
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## Sanskrit (Literature)

बी० ए० प्रथम वर्ष  प्रथम प्रश्नपत्र	संस्कृतकाव्य, काव्यशास्त्र	<ul style="list-style-type: none"> <li>• कुमारसम्भव(पंचमसर्ग), किरातार्जुनीय (द्वितीयसर्ग), शिशुपालवध (प्रथम सर्ग), साहित्यदर्पण (काव्यलक्षण, काव्यप्रयोजन, अभिधा, लक्षणा, व्यंजना, नाटकलक्षण, कथा, आख्यायिका, अर्थोपक्षेपक)।</li> </ul>
द्वितीय प्रश्नपत्र	व्याकरण, अनुवाद, संस्कृत साहित्य का इतिहास	<ul style="list-style-type: none"> <li>• लघुसिद्धान्तकौमुदी-संज्ञा, सन्धि-प्रकरण, हल्-विसर्ग सन्धि-प्रकरण, अनुवाद, संस्कृत काव्य साहित्य का इतिहास (वाल्मीकि, व्यास, अश्वघोष, कालिदास आदि)।</li> </ul>

बी० ए० द्वितीय वर्ष प्रथम प्रश्नपत्र	नाटक, गद्यकाव्य, काव्यशास्त्र	<ul style="list-style-type: none"> <li>• अभिज्ञानशाकुन्तल, शुकनासोपदेश, साहित्यदर्पण (गुण, रीति, अलंकार)।</li> </ul>
द्वितीय प्रश्नपत्र	व्याकरण, निबन्ध, गद्यनाट्यसाहित्येति हास	<ul style="list-style-type: none"> <li>• मध्यसिद्धान्तकौमुदी-अजन्तप्रकरण (रूपसिद्धि, संज्ञापरिचय) हलन्तप्रकरण (युष्मद्, अस्मद्, तद्)।</li> <li>• निबन्ध लेखन नाट्यसाहित्येतिहास-(सुबन्धु, बाणभट्ट, दण्डी, अम्बिकादत्तव्यास, अभिज्ञानशाकुन्तल आदि)।</li> </ul>

बी० ए० तृतीय वर्ष प्रथम प्रश्नपत्र	वेदमन्त्र, अपठितांश, भारतीय संस्कृति	<ul style="list-style-type: none"> <li>• वेदसूक्त, ईशावास्योपनिषद्, अपठितांश का हिन्दी अनुवाद, भारतीय संस्कृति (पुरुषार्थचतुष्टय, वर्णाश्रम, संस्कार)।</li> </ul>
द्वितीय प्रश्नपत्र	नाटक, व्याकरण, छन्द	<ul style="list-style-type: none"> <li>• उत्तररामचरित, लघुसिद्धान्तकौमुदी-कृदन्तप्रकरण, छन्दलक्षण।</li> </ul>
तृतीय प्रश्नपत्र	अद्यतन संस्कृत साहित्य	<ul style="list-style-type: none"> <li>• अद्यतन संस्कृत कविता, शिवराजविजय (प्रथम निःश्वास), आधुनिक संस्कृत साहित्य का इतिहास।</li> </ul>

# Sanskrit (General)

बी0 ए0 द्वितीय वर्ष प्रथम प्रश्नपत्र	संस्कृत भाषा नैपुण्य	<ul style="list-style-type: none"><li>• रघुवंश (प्रथम सर्ग), ऋग्वेद (1.1), अथर्ववेद (1.2), वाच्य, लघुसिद्धान्तकौमुदी (समास प्रकरण), अनुवाद ।</li></ul>
द्वितीय प्रश्नपत्र	संस्कृत भाषा नैपुण्य	<ul style="list-style-type: none"><li>• कुमारसम्भव (प्रथमसर्ग), लघुसिद्धान्तकौमुदी (तिङन्त प्रकरण), अलंकार (काव्यदीपिका), अर्थावबोध ।</li></ul>

# Home Science

<p><b>B.A I</b> <b>Paper I</b></p>	<p><b>Food &amp; Nutrition</b></p>	<ul style="list-style-type: none"> <li>• Concept of Nutrition, Types of Nutrition, Classification of food &amp; function of Food.</li> <li>• Recommended of Dietary Allowances.</li> <li>• Digestion &amp; Absorption of Nutritions.</li> <li>• Minerals Major, Trace, Vitamins.</li> <li>• Basic Terminology used in Food Prepration, Basic Food groups.</li> <li>• Role of Beverages &amp; Appetizers in Diet.</li> <li>• Methods of cooking &amp; their effect on Nutritive Value.</li> <li>• Improving Nutritional quality of foods, Protein supplements.</li> </ul>
<p><b>Paper II</b></p>	<p><b>Extension Education &amp; Community Development</b></p>	<ul style="list-style-type: none"> <li>• Concept of health, Physical Health, social health, mental Health, Emotional health, occupational Health.</li> <li>• Measure of health, health Protection for workers, pollution.</li> <li>• Population education &amp; Difference between, Population education and family education.</li> <li>• Population growth in India, meaning, scope, needs of extension education.</li> <li>• Principles of extension worker, formal- Non formal education.</li> <li>• Community Development Programme, Principles, recent programme for- ICDS. DWCRA,IMY, MNREGA.</li> <li>• Dowry, Child laborn, Violence against women, Women Empowerment, Audio visual Aids (classification).</li> </ul>
<p><b>Paper III</b></p>	<p><b>Practical</b></p>	<ul style="list-style-type: none"> <li>• Food prepration- Beverages Cereals and flour mixtures, Pulse and legumes.</li> <li>• Vegetables Cures Fruits salad, Milk desserd and puddings, Cakes, Snacks, Peanut Chikki, Chart or poster.</li> </ul>

<p><b>B.A II</b> <b>Paper I</b></p>	<p><b>Family Resource Management</b></p>	<ul style="list-style-type: none"> <li>• Basic concept of management, Importance &amp; obstacles.</li> <li>• Factors motivating management- Value, Goals, Standards.</li> <li>• Family Resources and Decision making process-</li> </ul>
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		<p>Types, factors effecting, Steps and role.</p> <ul style="list-style-type: none"> <li>• Finance management- Income, Budget, Saving &amp; Guidelines of money management.</li> <li>• Time and energy management- Tools of time management &amp; work simplification.</li> <li>• Housing- Selection of house site and factors, Kitchen- Types.</li> <li>• Foundation of Art- Design, element of design, principles, Study of colours.</li> </ul>
<b>Paper II</b>	<b>Human Development</b>	<ul style="list-style-type: none"> <li>• Basic concept of Human development.</li> <li>• Growth &amp; development, Prenatal period.</li> <li>• Reproductive System (Internal).</li> <li>• Conception and sins of pregnancy care of pregnant mother.</li> <li>• Postnatal period- Types of delivery, care of new born.</li> <li>• Characteristics of Growth &amp; development (12 year).</li> <li>• Play- Types, Importance, Characteristics, Personality, development.</li> <li>• Common behavioral problem children &amp; remedies.</li> </ul>
<b>Paper III</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>• Greeting card, Envelops, Book Marks, Pot making.</li> <li>• Any teaching aid, Folder, Rangoli.</li> </ul>

<b>B.A III Paper I</b>	<b>Textiles and Clothing</b>	<ul style="list-style-type: none"> <li>• Classification of Textiles, General properties of fiber.</li> <li>• Manufacturing/Processing of Textile fiber, Study of yarn and fabrics.</li> <li>• Loom-Parts and process, Weaving- Basic weaves, Knitting- Properties and uses of knitting, fabric finish.</li> <li>• Selection of ready made garments for different age, Season, occupation and occasion.</li> <li>• Storage and care of fabrics, Consumer education, Consumer problem, Advertisements packing and labels.</li> <li>• Consumer right and duties, Consumer lows.</li> </ul>
<b>Paper II</b>	<b>Dietetics &amp; Therapeutic Nutrition</b>	<ul style="list-style-type: none"> <li>• Nutrients nutrition, Health, Dietelies &amp; theraputure nutrition.</li> <li>• Nutrition fact about fast food &amp; junk foods.</li> <li>• R.D.A for all age group, Balanced diet.</li> <li>• Energy require mul, B.M.R activity, age, climate diet meal planning.</li> <li>• Factors affecting meal planning, meal planning for special occasion.</li> </ul>

		<ul style="list-style-type: none"> <li>• Nutrition through the life cycle at Different activity of socio-economic labels.</li> <li>• Principles of diet therapy, Different types of diets, Full diet, Soft diet, Fluid diet, Bland diet.</li> <li>• Diet plan for deferent dieses, Weight management.</li> <li>• Therapeutic diet, Diabetes, Hypertension.</li> </ul>
<b>Paper III</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>• Tie and dye.</li> <li>• Drafting cutting &amp; stretching ( Frock, Blouse and Petticoat.</li> </ul>



# Political Science

<b>B.A I</b>  <b>Paper I</b> <b>101</b>	<b>Political Theory</b>	<ul style="list-style-type: none"> <li>• Definition, Nature, Scope of Political Science, Relation with other social sciences; methods and Approaches to the study of Political Science, Behavioral Approach.</li> <li>• The State: nature, origin, functions of state, Welfare State, Justice, Liberty, Equality.</li> <li>• Sovereignty, Law, Democracy, Parliamentary, Presidential and Plural types, Unitary and federal Government.</li> <li>• Public opinion, Political Parties, Pressure Groups, electoral System, Secularism.</li> </ul>
<b>Paper II</b> <b>102</b>	<b>National Movement and Constitution of India</b>	<ul style="list-style-type: none"> <li>• Nationalism In India, The Indian National Congress, Moderates and extremists, landmarks of Indian National Movements, The Independence Act, 1947.</li> <li>• Making of Indian Constitution, Salient Features of the Constitution, Fundamental Right and Duties, Directive Principles of State Policy, Indian Federal System, Centre-State Relations.</li> <li>• The Union Government, The President, the Prime Minister, The Council of Ministers, The Parliament, The Supreme Court, State Government, The Legislature, The Executive, The High Court, Panchayati Raj.</li> </ul>

<b>B.A II</b>  <b>Paper I</b> <b>201</b>	<b>An Outline History of Western Political Thought</b>	<ul style="list-style-type: none"> <li>• Plato, Aristotle.</li> <li>• Main characteristics of Medieval Political thought, St. Thomas Aquinas, Machiavelli, Jean Bodin.</li> <li>• Thomas Hobbes, John Locke, J.J Rousseau, Jeremy Bentham, J.S Mill, Karl Marx, T.H Green, Hegel.</li> </ul>
<b>Paper II</b> <b>202</b>	<b>Comparative Government</b>	<ul style="list-style-type: none"> <li>• United Kingdom: General Features, Constitutional Conventions: The Crown, Parliament, Cabinet System: The Rule of Law, The Party System.</li> <li>• U.S.A: General Features, Federalism, President: Congress, Federal Judiciary, Party System.</li> <li>• Switzerland: Main Features, Federal Executive, Federal Legislature, Judicial System, Devices of</li> </ul>

		<p>Direct Democracy, Method of Amendment in the Constitution.</p> <ul style="list-style-type: none"> <li>• France: making of the constitution of the Fifth Republic and its characteristics, The President, The Government, The National Assembly, The Senate, The Judicial System, The Administrative Law, The Party System.</li> </ul>
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<p><b>B.A III</b> <b>Paper I</b> <b>301</b></p>	<p><b>Principles of Public Administration</b></p>	<ul style="list-style-type: none"> <li>• Meaning, nature, scope of Public Administration, Public and Private Administration, Role of Public Administration in modern state, Responsive Administration.</li> <li>• Bases of Organization, Principles of Organization, Hierarchy, Span of Control, Delegation of Authority, Centralization and Decentralization, Control over Administration: Legislative, executive and Judicial.</li> <li>• The Chief Executive, Line, Staff and Auxiliary Agencies, the Department, Public Corporations.</li> <li>• Independent Regulatory Commissions, Training and Promotion, Position classification, Financial Administration, budget, audit.</li> </ul>
<p><b>Paper II</b> <b>302</b></p>	<p><b>Indian Political Thought</b></p>	<ul style="list-style-type: none"> <li>• Manu, Kautilya: The Indian Renaissance, Raja ram Mohan Roy, Swami Dayananda Saraswati, Swami Vivekananda, Bal Gangadhar Tilak, Gopal Krishna Gokhale, M.N Roy.</li> <li>• M.K. Gandhi, Jawaharlal Nehru, Jai Prakash Narayan, Sir Saiyad Ahmad Khan.</li> </ul>
<p><b>Paper II</b> <b>303</b></p>	<p><b>International Politics</b></p>	<ul style="list-style-type: none"> <li>• Meaning, nature, scope of International Politics, Theories and Approaches: Traditional, Scientific, Behavioral, Idealist, Realist, System, Game, Communication, Decision making.</li> <li>• The Modern State System, Power, National Interest, Balance of power, Collective security, Ideology, foreign policy-its determinants and Instruments.</li> <li>• Arms Control and disarmament, Cold War, Détente, New Cold War, Post Cold war International politics.</li> <li>• Non-alignment: Its Movement, Problem of Third world.</li> <li>• International Law, Global organization.</li> <li>• The UN: Regional organizations, the European</li> </ul>

## Economics

<b>B.A I</b>  <b>Paper I</b>	<b>Principles of Economics Analysis</b>	<ul style="list-style-type: none"> <li>• Economics scope and methods, (Equilibrium, utility, elasticity) Mathematical concepts, Theory of consumer Behavior, Demand Analysis.</li> <li>• Production function, Short-run and long-run, Optimum and representative firms.</li> <li>• Market and price determination nature of market, perfect competition monopolistic competition.</li> <li>• Economics system, theory of distribution and factor pricing (Theories of rent wages, interest and profit).</li> </ul>
<b>Paper II</b>	<b>Indian Economics Problems</b>	<ul style="list-style-type: none"> <li>• Nature and structure of Indian economy interrelationship, resources, poverty, unemployment polies.</li> <li>• Agriculture: Productivity, problem of irrigation and supply rural development programme labour, financial and project change in Agriculture strategy.</li> <li>• Industry and service sector policies of major industries, large small and cottage.</li> <li>• Industrial Labour, Trade Union movement and wage regulation.</li> <li>• Economy of uttar Pradesh Infrastructure, sources, planning Industry policies poverty inter-Regional.</li> </ul>
<b>B.A II</b>  <b>Paper I</b>	<b>National Income Analysis money and Banking</b>	<ul style="list-style-type: none"> <li>• National income concepot and methods of measurement, Classical and Keynesian system</li> <li>• Value of money: Fisher and combridge, Keynes quantity theory.</li> <li>• Price: inflation, deflation, keynesia approach and relation between Inflation and unemployment P.C curve and okan's law.</li> <li>• Bank structure, RBI bank, Commercial bank, central Banking Indian monetary market.</li> <li>• Foreign exchange, IMF and IBRD exchange control, object and methods.</li> </ul>

<b>Paper II</b>	<b>Public Finance and International Trade</b>	<ul style="list-style-type: none"> <li>• Private and public goods Government Budget, Public Revenue Taxation.</li> <li>• Wagner's law, wise man peacock hypothesis effect of public expenditure, Public debt effects.</li> <li>• Fiscal Policy and economic growth, Sources of Income cen</li> <li>• trol state Indian Tax system Indian federal Finance.</li> <li>• Internation Trade: Theory of comparative and Refinements cost terriff and non Tariff methods foreign trade of India and trade policy.</li> </ul>
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<b>B.A III Paper I</b>	<b>Economics of Developing Countries</b>	<ul style="list-style-type: none"> <li>• Economic growth and economic development, non economic factors, Resources endowments Agriculture, Mineral energy.</li> <li>• Vicious circle of poverty lewis, Rosentein Rodan, Leibestein, Nelson and Rostow theory.</li> <li>• Trade and economic development movement and prospectsi nternational Finance, WTO .</li> <li>• Development and planning strategy plans models and achievement of India five year plans.</li> </ul>
<b>Paper II</b>	<b>Economics Polocies of India</b>	<ul style="list-style-type: none"> <li>• Macro- Economics policy in Developing countries and contring inflation and unemployment , new economic policy.</li> <li>• Industrial policy private and public sector MRTP ACT, MNC Industrial policy for small and scales and large scale policies.</li> <li>• Agriculture policy in India Development project and panchayati Raj new agriculture strategy evaluation of swarna jayanti Rojgar MNRGA food policy and food distribution green revolution.</li> <li>• ExchangeRate policy and Devaluation, foreign capital Inflow and multi lateral Assistance.</li> </ul>
<b>Paper III</b>	<b>History of Economic Thought</b>	<ul style="list-style-type: none"> <li>• Pre- classical and Indian economics thought melcantilism physiocracy kautilya, Naoroji Ranade R.C Dutt Crandhian thought and J.K Mehta.</li> <li>• Adam Smith, David Ricardo Malthusian and glutl mathusian theories and principles and theories.</li> <li>• J.B say law Keynes law J.S mil synthesis of classical ideas, Historical and Sociales theory marxism theory.</li> <li>• Debate on methods of economics Analysis Historical classical marginal revolution, Walras and Jevons theory and marshall, political philosophical new theory menger words Bohm- bawerk, Marshall,</li> </ul>

## Psychology

<b>B.A I Paper I</b>	<b>Basic Psychological Processes</b>	<ul style="list-style-type: none"> <li>• Definition, Nature, Scope and Methods of Psychology, Receptor, Effectors and Adjustors, The Nervous System, Sensory Processes, Attention Processes and Perceptual Processes.</li> <li>• Learning: Theories of Learning, Memory and Emotion; James - Lange, Cannon- Bard.</li> <li>• Thinking, Intelligence, Personality: Concept and Determinates.</li> </ul>
<b>Paper II</b>	<b>Methodology and Statistics</b>	<ul style="list-style-type: none"> <li>• Nature of Science and Scientific Methods.</li> <li>• Problem and Hypothesis: Nature, Types and Sources.</li> <li>• Variables; Types and Control of Variables.</li> <li>• Psychophysics: Nature, Method, Weber Fechner's Law.</li> <li>• Meaning and Purpose of Statistics in Psychology, Frequency Distribution and their Graphical Presentation.</li> <li>• Mean, Median, Mode Range, QD, MD, AD, SD, Meaning Application and Computation.</li> </ul>
<b>Paper</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>• Bilateral Transfer of Training.</li> <li>• Influence of Set of Perception.</li> <li>• Psychophysics ( any one Method).</li> <li>• Effect of Knowledge of Result on Performance.</li> <li>• Intelligence Test (Verbal).</li> <li>• Memory Span for Digits and Words.</li> </ul>

<b>B.A II</b>	<b>Psychopathology</b>	<ul style="list-style-type: none"> <li>• The Concept of Normality and Abnormality, Mental Illness, Psychological</li> </ul>
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<b>Paper I 201</b>		<p>Models.</p> <ul style="list-style-type: none"> <li>• Stress, Psychosomatic Disorder: Causes, Symptoms and Treatment, Anxiety Disorder, Phobia, OCD, GAD, Somatoform.</li> <li>• Disorder: Conversim Hysteria.</li> <li>• Psychotic Disorder-(a) Schizophernia, (b) Delusional Disorder</li> <li>• Mood Disorder, Personality Disorder.</li> </ul>
<b>Paper II 202</b>	<b>Social Psychology</b>	<ul style="list-style-type: none"> <li>• Methods of Studing Social Behavior, Socialization, Social Interaction, Prejudice, Sterotypes, Conflict, Inter-persnol Attraction, Attitudes: Likert, Thurston and Bogardas.</li> <li>• Group Dynamics and Influence, Leadership: Trait, Situational, Interactional, Behavioural and Contingency Approaches to Leadership Effetivenss.</li> <li>• Communication: Verbal, Non Verbal, Language and Social Interaction.</li> <li>• Agression: Deteminants and Theoretical Perspectives, Helping Behavior: Personal Social and Cultural Determinants.</li> </ul>
<b>Paper 203</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>• Attitude Scale.</li> <li>• Test of Aggression, Anxiety.</li> <li>• S.C.T (Sentence Competition Test).</li> <li>• EPI (Eysenck Personality Inventory).</li> <li>• Stress/Coping Test.</li> <li>• Anxiety.</li> </ul>

<b>B.A III Paper I 301</b>	<b>Measurement and Statistics</b>	<ul style="list-style-type: none"> <li>• Paired Comparison, Rating and Ranking Nomical, Interval and Ratio Scales.</li> <li>• Text: Types and Characteristics of a Good Test, Standarlization of Test, Research Design, Concet of Probability, NPC, Skewness and Kurtosis.</li> <li>• Hypothesis, Testing and Making, Interences, T-distribution Values, Type I and Type II errors in Intereence Making.</li> <li>• Non Parmetric Statistics: Chisquare, Median and Sign Test.</li> </ul>
<b>Paper II</b>	<b>Counseling and</b>	<ul style="list-style-type: none"> <li>• Purspective of Counseling: Psychoanalytic behavioral and cognitive, Types of</li> </ul>

302	<b>Guidance</b>	<p>Counseling: (a) Directive, Non directival electric,(b) Individual and Group Counselings.</p> <ul style="list-style-type: none"> <li>• Counseling process, Skills, Phase and Areas of Counseling.</li> <li>• Need, Nature, Goals and Functions of Guidance, Areas of Guidance.</li> <li>• Testing Techniques in Guidance: Intelligence, Personality, Aptitude, Interest, Achievement Tests.</li> </ul>
<b>Paper 303</b>	<b>Organizational Behaviour</b>	<ul style="list-style-type: none"> <li>• Nature and Scope, Contribution of Taylor F.W and Elton Mayo Selection and Placement: Basic Selection Models, Techniques of Selection: Interview and Psychological Testing.</li> <li>• Training Methods: Training on the Job and off the Job.</li> <li>• Motivation: Major Theories, Maslow, Adams, Vroom.</li> <li>• Job Satisfaction and Industrial Morale and theories: (Herzberg Vroom).</li> <li>• Organizational Stress: Source, Role and Effect on Job Behaviour.</li> <li>• Human Engineering: Man, Machine System, Design, Control and Action.</li> <li>• Accident and Safety Risk Taking, Safety Measures in Industries.</li> </ul>
<b>Paper 304</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>• Ranking Paired Comparison.</li> <li>• Intelligence Test (Non Verbal),.</li> <li>• Achievement Test.</li> <li>• Job Satisfaction.</li> <li>• Interest Test(V.I.R).</li> <li>• Mental Health.</li> </ul>

# Sociology

<p><b>B.A I</b> <b>Paper I</b> <b>101</b></p>	<p><b>Introduction to Sociology</b></p>	<ul style="list-style-type: none"> <li>• Nature of Sociology, Meaning of Sociology :- Origin, Definition, Scope, Subject Matter, Nature and Relation of Sociology with other Social Sciences.</li> <li>• Basic Concepts:- Society, Community, Institution, Association, Group, Social Structure, Status and Role, Function and Dys Function.</li> <li>• Institutions:-family and Kinship, religion, education, Individual and society, culture, Socialization, relation between individual and Society.</li> <li>• Use of Sociology, Introduction to applied, Sociology, Sociology and Social Problems, Environment Society- Impact of Industrialization and unbanizatn.</li> </ul>
<p><b>Paper II</b> <b>102</b></p>	<p><b>Society in India Structure and Change</b></p>	<ul style="list-style-type: none"> <li>• Basic Structure of Indian Society: Purusharth, Ashram, Dharma, Varna.</li> <li>• Composition of Indian Society: Villages cities, Weaker section, Dalits, O.B.C's, women minorities and tribes.</li> <li>• Basic institutions of Indian Society: Caste marriage religion and joint family.</li> <li>• Culture: material and Non material culture.</li> <li>• Cultural lag changes in Indian society, Factors affecting National Integration, cultural diversity, diversities in respect of language, caste, regional and beliefs.</li> </ul>

<p><b>B.A II</b> <b>Paper I</b> <b>201</b></p>	<p><b>Indian Society Issues and Problems</b></p>	<ul style="list-style-type: none"> <li>• Structural: Inequality of caste and gender, Problems of minorities, back ward classes and Dalits, Human rights violation.</li> <li>• Familial: Dowry, domestic violence, divorce, intergenerational conflict, Problems of elderly.</li> <li>• Developmental: Development induced</li> </ul>
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		<p>displacement, naxalism and Regionalism, Consumerism.</p> <ul style="list-style-type: none"> <li>• Disorganizational: Crime and Delinquency, White collar crime and criminals, drug Addiction, terrorism, cyber crime, corruption in Public sphere.</li> </ul>
<b>Paper II 202</b>	<b>Social Change and Social Control</b>	<ul style="list-style-type: none"> <li>• Social change: meaning nature and factors of social change, Biological factors Demographic factors, Technological factors, Economic factors, culultural factors, infotech factors.</li> <li>• Theories of Social change: Demographic and Biological theories, Evolutionary, Diffusionist and marxist theory, Technological Deterministic theory, Linear and cyclical theories of social change.</li> <li>• Other concepts relating to social change- Social Process: Indus trialization, Urbanization, modernization and Sanskritization, social Evolution, Social change in India.</li> <li>• Social control: Definition, need and importance of Social control, Types of social control, theories of social control Agencies of social control: family,propaganda, Public opinion, Education and state, Religion.</li> </ul>

<b>B.A III Paper I 301</b>	<b>Foundation of Sociological Thought</b>	<ul style="list-style-type: none"> <li>• The Emergence of Sociology: History of Social thought, Enlightenment the social, economic and political forces: The French and Industrial Revolutions.</li> <li>• The pioneers: August comte: Positivism, Herbert Spencer: Social Darwinism, Super-organic evolution, Emile Durkheim: Social solidarity and suicide.</li> <li>• Karl Marx: Materialistic conception of History, Class and class conflict, Max Weber: power, Authority and social action, Pareto: circulation of elites.</li> <li>• Schools of sociological theory, functionalism, conflict school, social action perspective, Development of sociological thought in India.</li> </ul>
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<b>Paper II</b> <b>302</b>	<b>Social Research</b> <b>Methods</b>	<ul style="list-style-type: none"><li>• Meaning, significance and steps of social research, conceptualization and formulation of hypothesis.</li><li>• Scientific study of social phenomena, the scientific method, logic in social science, objectivity and subjectivity in social science.</li><li>• Types of Research: Basic and applied, historical and Empirical, Descriptive, Exploratory and Experimental.</li><li>• Types, techniques and tools of data collection: Sampling observation, questionnaire, Schedule and Interview, Primary and Secondary data.</li><li>• Measures of central tendency: mean, median, mode and Bar diagram.</li></ul>
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## Drawing & Painting

<b>B.A I Paper I 101</b>	<b>Fundamentals of Visual Art &amp; Indian Folk Art</b>	<ul style="list-style-type: none"> <li>• Simpla Study: Definition and Meaning of Art.</li> <li>• Elements of Painting: Line, Form, Colour, Tone, Texture, Space.</li> <li>• Principles of Composition: Proportion, Rhythm, Dominance, Harmony, Unity, Balance.</li> <li>• Medium and Techniques Medium: Dry Medium, Powder Colour, Pastel Colour, Water, Oil, Acrylic, Water Colour, Tempera Colour, Acrylic Colour.</li> <li>• Indian Folk Art: Origin, Definition, Types- Rangoli, Mandna, Alpna, Sanjhi, Apna, Leela Gudwana, Ahpan.</li> </ul>
<b>Practical Paper 102</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>• Creative Designing: (Ornamental/Geometrical/folk/computer) with minimum one human figure is compulsory.</li> <li>• Still Life Painting.</li> </ul>

<b>B.A II Paper I 201</b>	<b>(Primitive Art and Ist Century to 17<sup>th</sup> Century A.D)</b>	<ul style="list-style-type: none"> <li>• Primitive art with reference ti Indian Painting: Pre-historic Painting, Indus Valley, Jogimara.</li> <li>• Buddhist Art: (Buddha Period), Ajanta, Bagh, Sittanvasal, Badami, Elephanta, Ellora.</li> <li>• Medieval Art (Medieval Period): pal School, Apbhransha/jain School.</li> <li>• Rajasthani Style: Mewar, Jaipur, Kishan Garh, Kota-Bundi.</li> <li>• Mughal School: Akbar, Jahanghir, Shahjahan.</li> <li>• Pahari School: Basholi, Kangra, Garhwal.</li> </ul>
<b>Practical Paper 202</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>• Copy from Old Master(Miniature painting).</li> <li>• Cast Study Bust/Antique/Life/Study.</li> </ul>

<b>B.A III Paper I</b>	<b>Philosophy of Art and</b>	<ul style="list-style-type: none"> <li>• Simple Study: Definition and Meaning of Art Six Limbs of Indian painting (Shadang).</li> </ul>
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301	<b>Modern Indian Painting</b>	<ul style="list-style-type: none"> <li>• Philosophy of Art: Concept of beauty according to Indian Philosophers and Western Philosophes Art and Symbolism Art and Society Art and Modernity.</li> <li>• Modern Art in Indian Painting : Patna/Company Scool: Life and style of Raja Ravi Verma.</li> <li>• Bengal School/Rennainssacen period: Life and style Abanindranath Tagore, Asitkumar, Haldar, Nandlal Bose, Kshitindranath Mazumdar.</li> <li>• New Trends in Modern Indian paintings: Life and Style of Jamini Roy, RAvindranath, Tagore, Gagandranath Tagore, Amrita Shre Gill.</li> <li>• Contemporary Indian Painting after Independence upto present age: Life and Style of Satish Gujrat, M.F. Husain, K.S. Kulkarni, K.K Habbar, N.S Bendre, B. Prabha, Sailoz Mukhrjee, B.C. Sanyal, Ram Kumar.</li> </ul>
<b>Practical Paper 302</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>• Pictorial composition: (with minimum two human figures are compulsory).</li> <li>• Portrait Study(Colored).</li> </ul>

# Education

<p><b>B.A I</b> <b>Paper I</b></p>	<p><b>Principles of Education</b></p>	<ul style="list-style-type: none"> <li>• Education- Its meaning, nature and scop- Aims of education, functions of educations Agencies of education formal, Informal and non formal.</li> <li>• Mass media of Communication education and Social change, education and democracy, education and culture.</li> <li>• Value education and Yoga education, education for National Integration and International Understanding.</li> <li>• Human Right education, human rights and duties in Indian Constitution.</li> </ul>
<p><b>Paper II</b></p>	<p><b>History and Development of Indian Education</b></p>	<ul style="list-style-type: none"> <li>• Education in Ancient and medical India characteristics of Gurukul, Matha/Vihar, Madaros and Maktabs, British education in India-Oriental- Occidental Controversy, macaulay’s minut, wood’s dispatch.</li> <li>• Hunder commission, Gokhle-bill, Sadler commission, Wardha Scheme, Main recommendations of commissions in India University Education of commissions in India University Education .</li> <li>• Commission on (1948-49), Secondary Education, Commission on (1952-53), Report of the Education, Commission (1964-66), National Policy on Education 1986, Programme of Action, Revision of National Policy on Education- 1990-92.</li> <li>• Problems of Pre-Primary Education, Primary, secondary Education, Higher Education.</li> </ul>

<p><b>B.A II</b> <b>Paper I</b></p>	<p><b>Educational- Psychology</b></p>	<ul style="list-style-type: none"> <li>• Definition and Nature of educational Psychology, relation between education and Psychology, Importance of Educational Psychology for a teacher, Methods of Education Psychology.</li> <li>• Introspection, Observation, Experimental and case study concept and learning, theory,</li> </ul>
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		<p>theory of trial and error, insight theory, Role of Motivation in learning laws of learning.</p> <ul style="list-style-type: none"> <li>• Individual difference and its Educational Importance concept of Intelligence and I.Q. Concept of Emotional intelligence and E.Q., Definition of Personality and its determinants,</li> <li>• Mental Health, Education of exceptional children- Gifted, Creative and Backward.</li> </ul>
<b>Paper II</b>	<b>Thought and Practices in Education</b>	<ul style="list-style-type: none"> <li>• Philosophy and Education-Concept, Nature and relationship, definition of Education al Philosophy, Essential aspects of following Schools of Philosophy- Idealism Naturalism, Pragmatism and Realism, Educational thought and Contribution of Sri Aur bindo, Geeju Bhai, Tagore, Gandhi ji and vivekanand, In reference to Banasthali, Vidyapeeth, Shanti Niketan, Pondiciery Ashram, Educational Practices- Kindergarten, Montessory, Dalton Plan, Project Method.</li> </ul>

<b>B.A III</b>	<b>New Trends and Innovations in Education</b>	<ul style="list-style-type: none"> <li>• Innovation- Concept and need of innovation in view of technological and Social change obstacles in innovation. Role of education in bringing innovations- Role of UNICEF in introducing innovations in Indian School Education.</li> <li>• Early childhood care and education under Article 45 of the Constitution of India, Balwadi, Aanganwadi and otherefforts in Public and Private Sectors innovation, Sarva Shiksha Abhiyan, Lok Jumbish, Eklavya, Mahila samakhya, National level- Brief Account of right to education, national literacy Mission &amp; Adult Education.</li> <li>• Life Skill Education, Changing face of school and University in the age of information, Communication technology, Education through radio, T.V. Computer and video conferencing, EDUSAT, Role of e-learning and e-content in education etc..</li> <li>• Distance Education-concept, need benefits and limitations, Distance Education and</li> </ul>
<b>Paper I</b>		

		open Education nurturing rural talent, changing school in the era of liberation, Privatization and globalization.
<b>Paper II</b>	<b>Measurement and Evaluation in Education</b>	<ul style="list-style-type: none"> <li>• Measurement and Evaluation: Concept, need and relation shp, Purpose of evaluations Levels of Measurement, Techniques of Evaluation, Meaning and Definition of Statistics, Frequency distribution, Measures of Central tendency, Measure of Variability, Correlation, Graphical Representation of data.</li> </ul>
<b>Paper III</b>	<b>Practical-Test in Education</b>	<ul style="list-style-type: none"> <li>• Object- To make students aware of various standardized tests, Testing with Scores and using different test in Research work.</li> <li>• Educational test is given- Education al Aspiration as V.I.R, Life Satisfaction as S.V.T, Aptitude as A.S.C.T, Self Confidence as I.E.I, Emotional Intelligence as A.I.S.S.</li> </ul>

## Vocal/Instrumental Music (Stringed)

<p><b>B.A I</b> <b>Theory</b> <b>Paper I</b></p>	<p><b>Vocal/Instrumental Music (Stringed)</b></p>	<ul style="list-style-type: none"> <li>• Study of theoretical details of ragas and talas prescribed for practical course of first year and their comparative study.</li> <li>• Ragas- Yaman, Brindavani Sarang, Bageshri, Deshkar, Kamod, Chayanut.</li> <li>• Talas- Trital, Ektal, Choutal, Jhaptal, Dhamar, Dadra, Kaherua.</li> <li>• Definition of technical terms- saptaak, Alankar, Vaadi, Samvadi, Anuvaddi, Vivaadi, That, Rag, Sandhi Prakash Rag, Permale Praveshak rag, Meend Ghaseet, Kritan Janjama, Bol of Mizraf.</li> <li>• Definition and difference between shruti and Swar give the name of 22 shruties.</li> <li>• Naad, Gram and Moorchana.</li> <li>• Give the Classification of Indian Instruments give details knowledge of your own Instrument with diagram.</li> <li>• General knowledge of the biographies and the contributions of the following musicians.</li> <li>• Amir Khusro, Swami Haridas, Tansen, Alauddin Khan, Nikhil Bannerjee.</li> </ul>
<p><b>Practical</b> <b>Paper I</b></p>	<p><b>Vocal/Instrumental Music (Stringed)</b></p>	<ul style="list-style-type: none"> <li>• Candidate have to learn three Maseetkhani gats/Vilambit khyal in the following ragas in details, with alap and Toras-Yaman, Brindavani Sarang, Bageshri.</li> <li>• Candidate should learn Razakhani gats/ Drut Khyal in the following three ragas with toras/tans- Deshkar, Kamod, Chayanut.</li> <li>• Study of the following talas- Trital, Ektal, Choutal, Jhaptal, Dhamar, Dadra, Kaherva.</li> </ul>



<b>Practical Paper II</b>	<b>Vocal/Instrumental Music (Stringed)</b>	<ul style="list-style-type: none"> <li>• Intensive study of any one ragas as choice raga covering Alap, Maseetkhani Gata/Vilambit Khyal, Toras, Razakhani Gata/Drut Khyal, Toras Jhaala of the ragas prescribed in the practical paper-1</li> <li>• Study of one Madhya laya Gatas/Khyal other talas than tritaal out of the ragas prescribed in practical paper-1</li> <li>• Ability to demonstrate (orally by giving taali and khali on hand) talas prescribed in practical paper 1 with their Dvigan and Chaugun.</li> </ul>
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<b>B.A II Theory Paper I</b>	<b>Vocal/Instrumental Music (Stringed)</b>	<ul style="list-style-type: none"> <li>• Study of theoretical details of ragas and talas prescribed for practical course of first year and their comparative study.</li> <li>• Ragas: Shuddh Kalyan, Malkouns, Todi, Gaur Malhar, Vibhaas, Gaur Sarang.</li> <li>• Talas: Dhamar, Rupak, Teevra, Jhaptal, Ektal, Chautal, Jhoomra.</li> <li>• Reading and writing of Notation of Gats/Khyal - Vilambit, Drut prescribed in the practical course of Second Year.</li> <li>• Writing of Talas in notation with dugun, tigan and Chaugun Layakaries.</li> <li>• Comparative study of Pandit Bhatkhande and Pandit Vishnu Digamber Paluskar notation system.</li> <li>• Difference between Hindustani and Karnataki Swar and taal.</li> <li>• Short History of Music, Detailed Study of Classification of ragas.</li> <li>• Definition of the following:- Nyas, Apanyas, Sanayas and Vinyas, Alap, Jod, Alpatava, Bahutava, kampan, Lag-dat, maseetkhani and razakhani gat, Toda, Jhala.</li> </ul>
<b>Practical Paper I</b>	<b>Vocal/Instrumental Music (Stringed)</b>	<ul style="list-style-type: none"> <li>• Candidate have to learn three Maseetkhani gats/Vilambit khyal in the details, with alap and Toras/Tans- Gaud Sarang, Malkouns, Todi.</li> <li>• Candidate should learn Razakhani gats/ Drut Khyal in the following three ragas with toras/tans- Gaur Malhar, Vibhas, Sudh Kalyan.</li> <li>• Study of the following talas- Dhamar , Rupak, Teevra, Jhaptal, Ektal, Chautal, Jhoomra.</li> </ul>

<b>Practical Paper II</b>	<b>Vocal/Instrumental Music (Stringed)</b>	<ul style="list-style-type: none"> <li>• Intensive study of any one ragas as choice raga convering Alap, Maseetkhani, Gata/Vilambit Khyal, Toras/ Tans Razakhani, Gata/Drut Khyal, Toras/Tans and Jhaala our of the ragas prescribed in the practical paper-1.</li> <li>• Study of one Madhya laya gats/Drut Khyal in other talas than tritaal out of the ragas prescribed in practical paper-1.</li> <li>• Ability to demonstarate(orally by giving taali and khlai on hand) talas prescribed in practical paper 1 with their Dwigun and Chagun.</li> </ul>
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<b>B.A III Theory Paper I</b>	<b>Vocal/Instrumental Music (Stringed)</b>	<ul style="list-style-type: none"> <li>• Study of theoretical details &amp; notation of ragas and talas prescribed for practical course of first year and their comparative study.</li> <li>• Ragas- Pooriya, Darbari Kanada, Chandrakouns, Jai Jaiwanti, Adana, Miyan ki Malhar, Sohini.</li> <li>• Talas- Adachaaatal, Deepchandi, Sawari, Punjabi, Tilwada, Sooltal.</li> <li>• Detailed Study of musical compositions- Dhrupad, Dhamar, Khayal, Tappa, Thumri, Bhajan, Ghazal, Holi.</li> <li>• Elementary knowledge of Tabla Vadya, Difference between Harmony and Melody, Detailed Study of Staff Notation, Method of placing the Shuddha and Vikrit swaras on Veena by Pr. Sri Nivas.</li> </ul>
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<b>Theory</b>  <b>Paper II</b>	<b>Vocal/Instrumental Music (Stringed)</b>	<ul style="list-style-type: none"> <li>• Nibaddha-Anibaddha-Gana, Alapti (Ragalap and Rupakalap) their definition and varieties, Alap ka swasthan Niyam, Musical Intervals.</li> <li>• Detailed study of different schools (gharanas) as played on instrumentals and their comparative study.</li> <li>• History and development of your own musical instruments offered.</li> <li>• Short Study of Sangeet Granth- Natya Shastra &amp; Sangeet ratnakar.</li> <li>• Contribution of the following granthkaras (authors) and introduction of the granthas.</li> <li>• Ramamatya- Swarmel Kalanidhi, Venkatmukhi- Chaturdandi Prakashika.</li> <li>• Biographies and contribution of following musicians.</li> <li>• Pt. V.N. Bhatkhande, Pt. Vishnu Digamber Paluskar, Pt. Orkarnath Thakur, Pt. Ravi Shanker, Ustad Alauddin Khan.</li> <li>• Essay on any musical topic.</li> </ul>
<b>Practical</b>  <b>Paper I</b>	<b>Vocal/Instrumental Music (Stringed)</b>	<ul style="list-style-type: none"> <li>• Candidate have to learn three Maseetkhani gats/Vilambit khyal in the details, with alap and Toras/Tans- Miyan ki Malhar, Darbari Kanada, Chandrakouns.</li> <li>• Candidate should learn Razakhani gats/ Drut Khyal in the following three ragas with toras/tans- ,Jai Jaiwanti, Adana, Pooriya, Sohini.</li> <li>• Study of the following talas- Adachautal, Deepchandi, Sawari, Punjabi, Tilwada, Sooltal.</li> <li>• Candidates must have a thorough knowledge of the talas prescribed in the B.A. Part I and Part II Syllabus with simple and difficult patterns i.e.dugun, chaugun and Adilaya (2 by layakaries).</li> </ul>
<b>Practical</b>  <b>Paper II</b>	<b>Vocal/Instrumental Music (Stringed)</b>	<ul style="list-style-type: none"> <li>• Intensive study of any one ragas as choice raga covering Alap, Maseetkhani, Gata/Vilambit Khyal, Toras/ Tans Razakhani, Gata/Drut Khyal, Toras/Tans and Jhaalas out of the ragas prescribed in the practical paper-1.</li> <li>• Study of one Madhya laya gates/Khyal in other talas than tritaal out of the ragas prescribed in practical paper-1.</li> <li>• Ability to demonstrate (orally by giving taali and khali on hand) prescribed in practical paper 1 with their Dwigun and Chagun and Adilaya (2 by 3 layakaries).</li> </ul>

# Bachelor of Commerce

<p><b>B.com I</b> <b>Group A</b> <b>Paper I</b></p>	<p><b>Business Communication</b></p>	<p>Introducing Business Communication, Theories of communication, Self-Development, development of positive personal attitudes, Corporate Communication, Mock interviews, Seminars report writing, Principles of Effective Communication writing skills Business letters and memo formats, Sales letters, Office memorandum, Report preparation, Principles of presentation, training presentation, Body language, Interviewing Skills modern forms of Communicating Fax, E-mail, Video context etc, International Communication.</p>
<p><b>Paper II</b></p>	<p><b>Business Environment</b></p>	<p>Indian Business Environment Concept, components, Finance, Prices, Poverty, Industrial sickness, Role of Government monetary and fiscal policy, Privatization, Export-Import policy, Regulation of foreign investment, The Current Five Year Plan, International Environment international trading environment ( overview) .International economic institution- GATT, WTO, UNCTAD, World Bank, IMF.</p>
<p><b>GroupB</b> <b>Paper III</b></p>	<p><b>Financial Accounting</b></p>	<p>Scope of accountancy, classification of receipt and expenditures, adjustment entries. Royalties account, Branch account dependent branch wholesale branch foreign branch. Purchase and installments payments system, legal provisions regarding hire-purchase contract .Partnership accounts Partnership deed, Goodwill, Change in Profit Sharing, Retirement of a partner, Death of a partner.</p>

<b>Paper IV</b>	<b>Business Regulatory Framework</b>	Law of Contract Classification, Legality of object, Agreement declared void. Discharge of contracts, Remedies for breach of contract. Guarantee, Bailment and Agency. Sale of Goods Act 1930 formation of contracts conditions and warranties, Performance of the contract of sales, Unpaid seller and his right. Negotiable Instrument Act 1881. Bill of exchange & cheque, crossing of a cheque, types of crossing. Dishonour and discharge of negotiable instrument. The Consumer Protection Act 1986. Salient features.
<b>GroupC Paper V</b>	<b>Business Economics</b>	This course is meant to acquaint the students with the principles of Business Economics as are applicable in business. Introduction meaning and scope of business economics function and duties of a business economist. Concept and theory of demand elasticity of demand, concept and measurement of elasticity of demand price, demand forecasting- meaning and method. Cost concepts, fixed, variable, average, marginal total. Perfect Competition price and output determination. Determination of price under monopoly. Meaning scope appraisal of capital project-payback period methods ARR and ROI Methods present Value Methods. Cost of Debt preference, equity capital, retained earning.
<b>GroupC Paper VI</b>	<b>Business Statistics</b>	Meaning, Scope, Importance and Limitation of Statistics. Census and sampling methods, collection of primary and secondary data. Diagrammatic and Graphic Presentation are dimensional, histogram, histogram, frequency polygon, frequency. Arithmetic, geometric harmonic means uses and limitations of different averages. Deviation and their coefficients, Skewness and its coefficients. Karl Pearson's- coefficient of correlation interpretation of coefficient of correlation. Problem in the construction of index weighted index number, fisher's ideal index number

<b>B.com II</b>  <b>Group A</b>  <b>Paper I</b>	<b>Principles Of Business Management</b>	<p>Introduction concept process significance of management classical and neo-classical system.Planning process and types decision making.Organizing concept process, and types.Decision making organizing concept process and significance.Centralization and decentralization,Organization structure-forms and contingency factors.Motivating and Leading people at work motivation theories,Financial and non-financial incentives,leadership styles.Techniques of control concept,nature and process of planned change.</p>
<b>Group A</b>  <b>Paper II</b>	<b>Fundamentals Of Entrepreneurship</b>	<p>The entrepreneur Emergence of entrepreneurial. Role of socio-economic environment promotion of a venture External environmental analysis venture capital.Entrepreneurial Behaviour innovation Social responsibility entrepreneurial Development programmes EDP,Role of Government in organizing EDPs,Role of Entrepreneur role of an entrepreneur in economic growth as an innovator.</p>
<b>Group B</b>  <b>Paper III</b>	<b>Cost Accounting</b>	<p>Nature and scope of cost accounting,Installation of costing system.Meterial control concept and techniques,Pricing time and piece rates,Incentive schemes.Classification and departmentalization unit costing,contract costing,process costs process profits by-products.</p>
<b>Group B</b>  <b>Paper IV</b>	<b>Income Tax</b>	<p>Basic concepts income casual income assessment year previous year Scope of total income,residence and tax liability.“Income from salaries”income from house property,profits and gains of business or profession,income capital gains.Income from other sources set deductions from gross total income individual.</p>
<b>Group C</b>  <b>Paper V</b>	<b>Public Finance</b>	<p>Meaning &amp; scope of public finance public goods vs. Private goods,public Expenditure classification distribution and economics stability.Main sources of revenue,Tax revenue,Direct and indirect taxes,Value added tax,Incidence of a tax,taxable capacity.Public debt role and classification of public debts Indian public finance commission review of Indian Tax system financial control in India.</p>

<b>GroupC Paper VI</b>	<b>Industrial Law</b>	Provisions of the Factories Act relating of Health,Safety,meaning of Industrial Disputes,Disputes Act,their Definition and Registration of Trade Unions right and liabilities .Constitution and Functions of Employees Medical Benefit Council,provisions brief study of the provision to compensation of workman.
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<b>B.com III Group A Paper I</b>	<b>Information Technology &amp; Its Implications In Business</b>	Information Revolution and Information Technology social fabric. Fundamentals of computers Data information and EDP Levels of information from data Computer Arithmetic and gates logic gates applications minimization and K-maps, System software - Role of software Computer - based Business Application, Word Processing meaning and role of word processing in creating of documents, editing, formatting, and printing documents, Electronic data Interchange, basic of EDI,FEDI fore international trade transaction .the Internet and its Basic Concepts Internet-concept, Information System, Sifferene with the traditional concepts of audit.
<b>Group A Paper II</b>	<b>Money And Financial System</b>	Money Functions, their different components, their different components Finance role of finance in an economy kinds of finance, financial system, Indian banking System Commercial banks-importance and functions, credit creation process, Development Banks other Non-banking Financial Institutions, The Reserve Bank of India Functions, Instruments of monetary and credit control.
<b>GroupB Paper III</b>	<b>Corporate Accounting</b>	Issue, Forfeiture and Re-issue of shres Redemption of preference shares, Issue and redemption of debentures, Valution of Goodwill and shares. Accounting for Amalgamation of Companies as per Indian Accounting Standard Accounting for Banking companiesgeneral insurance companies.
<b>GroupB Paper IV</b>	<b>Optional Paper-IV (A) Auditing</b>	Origin of Audit in India, meaning and objective of auditing qualification, Audit process audit and books, Internal Check System Internal control, Verification of assets and liabilities, Audit of Limited Companies Divisible profit and dividend. Auditor's report - standard report and qualified repor.Audit report - meaning, specimen.

<b>GroupC Paper V</b>	<b>Financial Management</b>	<p>Financial Management: financial goals, Profit vs weath maximization, Capital Budgeting: Nture of investment decisions, investment evaluation criteria, Operating and Financial Leverage, Combined financial and operating leverage, Dividend Policies: Issues in dividend policies,management of working Capital: significance of working capital, management of working capital.</p>
<b>GroupC Paper VI</b>	<b>Management Accounting</b>	<p>Mangement Accounting: meaning, scope and functions of Management Accounting, Role of Management Accounting. Financial Statements, Objectives and Methods of financial statements analysis,Funds Flow Statement as per Indian accounting standard 3,cash flow statement.Marginal Costing Marginal costing as a tool decision making - make or buy, Standard Costing and variance Analysis: variance analysis - material and Labour, Variances.</p>



# Bachelor of Science(Botany)

<p><b>B.sc I Paper I 101</b></p>	<p><b>Diversity of Viruses, Bacteria, &amp; Fungi</b></p>	<ul style="list-style-type: none"> <li>• Student will understand the knowledge of–</li> <li>• Achlorophylls plants with their special point.</li> <li>• History nature classification &amp; economic Importance of virus Bacteria &amp; fungi.</li> <li>• Gain the knowledge of plant virus TMV.</li> <li>• Gain the knowledge of Bacterial classification &amp; economic Importance.</li> <li>• Gain the knowledge of life cycle of different fungi &amp; imperfect fungi.</li> </ul>
<p><b>Paper II 102</b></p>	<p><b>Diversity of Algae, Lichens, and Bryophytes</b></p>	<ul style="list-style-type: none"> <li>• Student will gain the knowledge of-</li> <li>• Different Algae classification based on pigmentation &amp; their economic Importance.</li> <li>• First Amphibians, Bryophytes &amp; Moss Pogonatum was Learned very are fully.</li> <li>• Gain the knowledge of Gametophytic&amp;saprophytic left cycle &amp; classification of Bryophyta.</li> </ul>
<p><b>Paper III 103</b></p>	<p><b>Diversity of Pteridophyta, Gymnosperms &amp; Elementary Palaeobotany</b></p>	<ul style="list-style-type: none"> <li>• Student will gain the knowledge of first Vascular Plants &amp; organization of Stellar System &amp; seed habit &amp;Heterospory in plants.</li> <li>• Student will gain the knowledge Gymnosperms &amp; reproduction.</li> <li>• Elementary knowledge of Palaeobotany, fossilization and Geological time scale.</li> </ul>
<p><b>Botany Practical 104</b></p>	<p><b>Botany Practical</b></p>	<ul style="list-style-type: none"> <li>• Students will gain the knowledge of -</li> <li>• Internal and external structure of algae, Fungi, Bryophyte, Pteridophyta and gymnosperms.</li> <li>• Study of development of stellar system in Pteridophyta and vascular organization of gymnosperms</li> </ul>

<b>B.sc II Paper I 201</b>	<b>Diversity of Angiosperms Systematics, Development &amp; Reproduction</b>	<ul style="list-style-type: none"> <li>• Student will gain the knowledge of Nomenclature of Natural Artificial &amp; Phylogenetic classification.</li> <li>• Students will gain the knowledge of Meristematic tissue, Secondary growth &amp; Root Stem transition with anomalies.</li> <li>• Students will gain the knowledge of male &amp; female Gametophyte, Fusion, and Nature of endosperm &amp; Polyembryony.</li> </ul>
<b>Paper II 202</b>	<b>Cytology, Genetics, Evolution &amp; Ecology</b>	<ul style="list-style-type: none"> <li>• Student will gain the knowledge of-</li> <li>• Cell Structure &amp; different Structure of chromosomes cell Division mitosis &amp; meiosis its significance.</li> <li>• Genetics - Mendilian law of inheritance linkage &amp; sex determination.</li> <li>• Mutation Mutagens, Ploidy role in evolution &amp; evidence theories of evolution.</li> <li>• Ecological studies of plants succession Hydroxere and Xerosere.</li> </ul>
<b>Paper III 203</b>	<b>Plant Physiology and Biochemistry</b>	<ul style="list-style-type: none"> <li>• Student will gain the knowledge of-</li> <li>• Plants water relationship plasmolysis effect of Nutrients &amp; translocation of Solution in Plants &amp; their theories.</li> <li>• Photosynthesis and its Procedure, Role of Respiration &amp; its Mechanism by Kreb's, Glycolysis, PPP(Pentose Phosphate Path way) &amp; oxidative phosphorylation.</li> <li>• N<sub>2</sub> Cycle &amp; Phytoharmones role in Plants.</li> <li>• Senescence &amp; movements in plants.</li> <li>• Gain the knowledge of Bio molecules &amp; enzymes Nomenclature regulation &amp; Mechanism of action of Enzyme action.</li> </ul>
<b>Botany Practical 204</b>	<b>Botany Practical</b>	<ul style="list-style-type: none"> <li>• Students will gain the knowledge of ---</li> <li>• Plant physiology -water relation osmosis, biochemistry, and cell biology cell division.</li> <li>• Nomenclature of plants and herbarium technique and plant collection</li> </ul>

<b>B.sc III</b>  <b>Paper I</b> <b>301</b>	<b>Plant Resource Utilization paly-nology</b>	<ul style="list-style-type: none"> <li>• Student will gain the knowledge of-</li> <li>• Sustainable development cultivation &amp; production Monocot cereal crops.</li> <li>• Future fuel pteroplantsfiber, Medicinal oil &amp; beverages production plant.</li> <li>• Conservation of biodiversity plants &amp; Animals.</li> <li>• Structure and viability of pollen grain&amp; Basic knowledge of structures.</li> </ul>
<b>Paper II</b> <b>302</b>	<b>Molecular Biology &amp; Biotechnology</b>	<ul style="list-style-type: none"> <li>• Student will gain the knowledge of-</li> <li>• DNA toRNA Replication, Transcription, Translation &amp; Genetic Code.</li> <li>• Enzyme regulation &amp; Bioenergetics.</li> <li>• Harmonal Action and secondary Messenger.</li> <li>• Introduction to Biotechnology Tissue culture &amp; environmental biotechnology.</li> </ul>
<b>Paper III</b> <b>303</b>	<b>Environmental Botany &amp; Plant Pathology</b>	<ul style="list-style-type: none"> <li>• Conservation of mineral resources water, &amp; types of water.</li> <li>• Pollution reduction Causes, impact &amp; effect on human health with Special reference to global warming, Acid rain, Ozone layer Depletion.</li> <li>• Different fungal Disease, bacterial Disease &amp; viral Disease, and integrated pest management.</li> </ul>
<b>Botany Practical</b> <b>304</b>	<b>Botany Practical</b>	<ul style="list-style-type: none"> <li>• Students gaining the knowledge of--</li> <li>• Economic botany</li> <li>• Tissue culture technique and biochemistry</li> <li>• Soil science and texture of soil with vegetation of earth.</li> </ul>

# Chemistry

<p><b>B.sc I</b> <b>Paper I</b> <b>101</b></p>	<p><b>Inorganic Chemistry</b></p>	<p>Students will gain the knowledge of - Atomic structure &amp; application and Properties of periodic table. Various chemical bond and their theories to understand bonding nature &amp; shape of molecule. Students must understand s- block elements &amp; their function in biosystem. Pollution with ozone layer depletion, Global warming, BOD, COD etc. p-block elements &amp; Noble gases.</p>
<p><b>Paper</b> <b>102</b></p>	<p><b>Organic Chemistry</b></p>	<p>Students gain the basic knowledge of- Structure and bonding of Carbon. Mechanism of different organic reactions. A deep knowledge of alkanes and cycloalkanes with name reaction and orientation of molecules. Concept of Isomerism and its types. Nomenclature of alkenes &amp; cycloalkenes, Oiens, Alkenes, with special name chemicalreaction &amp; the polymerization of alkenes. Arenes and Aromaticity of Aromatic compounds. Alkyle&amp; Aryl halide with cyclic compound DDT &amp; BHC.</p>
<p><b>Paper</b> <b>103</b></p>	<p><b>Physical Chemistry</b></p>	<p>Students gain the knowledge of - Mathematical concept and brief knowledge of Computer. Different molecular state &amp; their inter-relationship. Structure of solid state and classification of colloids and their properties. Chemical kinetic of different order of reaction and catalysis.</p>

<p><b>B.sc I</b> <b>Practical Paper</b> <b>104</b></p>	<p><b>Inorganic Chemistry</b></p>	<p>Students will gain the practical knowledge of - Separation and identification of cations and anions group O and I to VI<sup>th</sup>. Volumetric Analysis of double titration from Acid base, redox and Complexometric type.</p>
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	<p><b>Organic Chemistry</b></p>	<p>Students will gain the knowledge of element detection and functional group detection.            Calibration of thermometer Naphthalene, urea &amp; Acetanilide.            Determination of boiling point Melting point, crystallization, decolourization by using charcoal.            Sublimation of camphor, Nephthalene, Pthalic Acid and succinic Acid Determine specific rate of methyl Acetate by Hydrogen effect of Acid.            Strengthby ester hydrolysis HCl &amp; H<sub>2</sub>SO<sub>4</sub>by studying the kinetics and Hydrolysis of ethyl acetate</p>
	<p><b>Physical Chemistry</b></p>	<p>Determine specific rate of methyl Acetate, ethyl Actateby Hydrogen.            Effect of Acid strength by ester hydrolysis.            HCL &amp; H<sub>2</sub> SO<sub>4</sub> by studying the kinetics and Hydrolysis of ethyl/Acetate to gain the knowledge of distribution on between iodine and water carbon tetrachloride &amp; Benzoic Acid Benzene &amp; water.            How to prepare sol &amp; gel precipitating power of mono, bi- and trivalent ions.            Students will gain the knowledge of viscosity, Surface Tension, Method used to know composition.</p>

<p><b>B.sc II Paper I 201</b></p>	<p><b>Inorganic chemistry</b></p>	<p>Students gain the knowledge of I,II and III transition series and their physical &amp; chemical properties.            Students are specially known about the Co-ordination Compound and their structure by valency bond theory, Nomenclature and isomerism.            Chemistry of Lanthanides and Actinides with special reference of separation and isolation.            Gain the knowledge of Oxidation, Reduction, Homogenous solvents.</p>
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<b>Paper II</b> <b>202</b>	<b>Organic Chemistry</b>	<ul style="list-style-type: none"> <li>Students will be beware of- Electromagnetic Spectrum Specially Absorption UV &amp; IR spectrum.</li> <li>Different Alcohol preparation physical &amp; chemical properties and their industrial production.</li> <li>Different phenolic Compound prepared by name reaction.</li> <li>Nomenclature of Ether &amp; Epoxide and their properties.</li> <li>Nomenclature, Structure and properties of Aldehyde &amp; Ketones.</li> <li>Different Carboxylic acids and their derivatives.</li> <li>Organic Compounds of Nitrogen.</li> </ul>
<b>Paper III</b> <b>203</b>	<b>Physical Chemistry</b>	<ul style="list-style-type: none"> <li>Students gain the deep knowledge of- Definition of thermodynamic and Explanation of First, Second and Third law with thermo dynamics.</li> <li>Chemical equilibrium and law of mass action.</li> <li>Solution &amp; their normal &amp; abnormal properties.</li> <li>Deep knowledge of Electrochemistry I &amp; II.</li> <li>Different phase equilibrium of solid &amp; liquid Composition.</li> </ul>

<b>B.sc II</b>  <b>Practical</b> <b>204</b>	<b>Inorganic Chemistry</b>	<p>Students will gain the practical knowledge of Volumetric Analysis of vinegar Antacid tablet, chalk as calcium oxalate hardness of water, ferric &amp; ferrous and copper using thio sulphate.</p>
<b>Practical</b>	<b>Organic Chemistry</b>	<p><b>Gravimetric Analysis</b>          Analysis of cu as CuSCN and Ni as Ni-dimethyl glyoxime and Ba as BaSO<sub>4</sub>.          Systematic Qualitative organic Analysis TLC &amp; Paper chromatography circular and ascending method.</p>
<b>Practical</b>	<b>Physical Chemistry</b>	<p>Students will gain the knowledge of-          Transition temperature of given substance by thermometric &amp; dialometric method.          Phase equilibrium- phenol, water system phase diagram of two component system.  <b>Thermo-chemistry</b>          Students gain the knowledge of-          Solubility, enthalpy of neutralization of weak acid/weak base &amp; enthalpy of calcium chloride by Born Haber</p>

cycle.

<b>B.sc III Paper I</b>	<b>Inorganic Chemistry</b>	Students have a better knowledge of - Metal ligand with limitation of VBT. Thermodynamics of Complex Compound. Magnetic properties of Transition Metal Complex. Types of Spectroscopic ground state $d^1$ and $d^9$ state. Chemistry of organometallic compound Li,Al,Hg,Sn, and Ti. Silicon & phosphazenes of as inorganic polymer. HSAB Theory and classification of Acid and Base according to strength. Awareness of essential & trace elements with special reference to Haemoglobin and Myoglobin and process of Nitrogen fixation.
<b>Paper II</b>	<b>Organic Chemistry</b>	Students gain the deep knowledge of- a) NMR, UV & IR Spectroscopy used in structure elucidation of molecules. b) Organometallic compound of Mg,Zn and Li formation & synthetic proportion. (c) Organosulphur compound. d) Structure of Mechanism & properties of fivemembered & six membered heterocyclic compounds. (e) Different carbohydrates, Interchange of higher & lower molecules of carbohydrate.
<b>Paper III</b>	<b>Physical Chemistry</b>	Students must gain some additional knowledge of- (a) Elementary quantum Mechanics. b) Spectroscopy with special reference of Rotational, Vibrationspectrum with IR,Raman & Electronic spectrum c) Physical properties of Molecular Structure and Magnetic Properties Paramagnetic, Diamagnetic & Ferromagnetic Compound. (d) Photochemistry its law and Enrgy transfer with. Fluorescence and phosphorescence. Ideal & Non-Ideal solutions and their Colligative properties.

<b>B.sc III Practical</b>	<b>Inorganic Chemistry</b>	Students will gain the practical knowledge of - Synthesis and Analysis of sodium
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304		trioxalatoferrate(III), Ni-dmg complex, tetra Amine complex, cis and trans-bisoxalatodiaquo chromate (III)ion. <b>Instrumentation-</b> <b>Colorimeter-</b> Job's method, mole ratio, Adutereation&effluent analysis solvent extraction and ion exchange method.
<b>Practical</b>	<b>Organic Chemistry</b>	Students will gain the practical knowledge of - Separation and identification of two organic compounds by using water, sodium bi carbonate solution Synthesis of Acetylation, diazotization etc Students will gain the knowledge of steam distillation, column chromatography, and stereo chemical study of organic compounds.
<b>Practical</b>	<b>Physical Chemistry</b>	Students will gain theknowledge of- Strength of acid by condometrically. Determination of solubility & solubility product by electrolyte condometrically gain the knowledge of Refractometry and polarimetry. Students will practicized about molecular weight determination. Colorimeterused for the absorbance measurement.

## Zoology

<b>B.sc I</b> <b>Paper I</b> <b>101</b>	<b>Lower Non Chordata (Protozoa to Helminthes)</b>	<ul style="list-style-type: none"> <li>• Students gain the detailed knowledge of the types in each-</li> <li>(a) Protozoans (Euglena, Monocystics).</li> <li>(b) Porifera (Sycon)</li> <li>(c) Coelenterata (obelia) &amp; ctenophore silent features.</li> <li>(d) Platyhelminthes [fasciola (liver fluke) &amp; Taenia] &amp; Nematehelminthes (Ascaris).</li> <li>(e) Habits, morphology, physiology, reproduction, development &amp; classification of all the above.</li> </ul>
<b>Paper II</b> <b>102</b>	<b>Higher Non Chordata (Annelida to Echinodermata)</b>	<ul style="list-style-type: none"> <li>• Students have gone through detailed knowledge of-</li> <li>• The habits, morphology, physiology, reproduction, development in outline &amp; classification of following group of animals.</li> <li>• Annelida-Nereis, Arthropoda- Palemon, Mollusca-Pila, Echinodermata- Asterias.</li> </ul>



<b>Paper III</b> <b>103</b>	<b>Cell Biology and Genetics</b>	<ul style="list-style-type: none"> <li>• Students have deep knowledge of-</li> <li>(a) Cell biology: Structure &amp; function of cell &amp; plasma membrane.</li> <li>(b) Cell biology: Structure &amp; function of cell organelles.</li> <li>(c) Genetics: <ul style="list-style-type: none"> <li>• Structure of chromosomes, DNA, RNA, Cell division, Mendel's law, linkage, crossing over.</li> <li>• Sex determination, sex differentiation, genetic disease &amp; abnormalities, chromosomal aberrations, Eugenics.</li> </ul> </li> </ul>
<b>Practical Paper</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>• Students have study and examine.</li> <li>• Invertebrates- Species of different phylums of invertebrate i.e. protozoa, Porifera, Coelenterata, Platyhelminthes, Nematelminthes, Annelida, Arthropoda, Mollusca, Echinodermata.</li> <li>• Cytology- Prepared slides of cell structure, division onion root tip for stages of mitosis and giant chromosomes.</li> <li>• Dissection- Prawn &amp; Pila (Nervous System) &amp; spotting &amp; identifying species.</li> </ul>

<b>B.sc II Paper I</b> <b>201</b>	<b>Chordata</b>	<ul style="list-style-type: none"> <li>• Students gain the detailed information about-</li> <li>(a) Classification, affinities &amp; detailed study of Hemichordata(Balanoglossus) &amp; Cephalochordata [Branchiostoma (Amphioruxes)], Urochordata (Herdmania).</li> <li>(b) Classification of different classes of Vertebrates. <ul style="list-style-type: none"> <li>• Pisces, Amphibia, Reptilia ( parental care).</li> <li>• Aves &amp; mammalian (dentition in mammals, respiration in pigeon &amp; migration of bird).</li> <li>• Upto order with charaters &amp; examples.</li> </ul> </li> </ul>
<b>Paper II</b> <b>202</b>	<b>Animal Distribution, Evolution &amp; Developmental Biology</b>	<ul style="list-style-type: none"> <li>• Students come to know about-</li> <li>(a) Animal distribution ( Geological &amp; Geographical) with their character fauna, fossils.</li> <li>(b) Origin of life (classical &amp; modern concept), Evolution: evidence, theories of evolution, evolution of man mutation.</li> <li>(c) Developmental Biology: <ul style="list-style-type: none"> <li>• Aims &amp; scope Gametogenesis, fertilization, egg &amp;</li> </ul> </li> </ul>

		<p>cleavage with their types.</p> <ul style="list-style-type: none"> <li>• Process of Blastulation &amp; gastrulation, fate map development of chick upto formation of primitive streak placentation &amp; types of placenta.</li> </ul>
<b>Paper III 203</b>	<b>Physiology and Biochemistry</b>	<ul style="list-style-type: none"> <li>• Students have gained deep knowledge about general physiology with special reference to mammals.</li> <li>(a) Physiology of excretion &amp; osmoregulation neural transmission, muscles.</li> <li>(b) Physiology of digestion respiration &amp; blood &amp; blood circulation endocrine system, thermoregulation.</li> <li>(c) General chemistry &amp; classification of carbohydrates, lipids &amp; protiens, enzymes.</li> </ul>
<b>Practical Paper</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>• Students have deep knowledge of-</li> <li>• Vertebrates- Species of different phylums of vertebrates i.e.- Urochordata, Cephalochordata, Cyclostomata, Chondrichthyes, Osteichthyes, Amphibia, Reptilia, Aves, Mammalia.</li> <li>• Histology- Slides of tissue, different types of muscles etc, Bones &amp; Cartilages.</li> <li>• Physiology- Test of amylase, Haemin crystal &amp;, Sugar &amp; acetone in urine.</li> <li>• Dissection- Major cranial nerves of scoliodon.</li> </ul>

<b>B.sc III Paper I 301</b>	<b>Applied &amp; Economic Zoology</b>	<ul style="list-style-type: none"> <li>• Students have got deep knowledge of-</li> <li>(a) Parasitology: <ul style="list-style-type: none"> <li>• Structure, life cycle, pathogenicity, including diseases, causes, symptoms &amp; control of domestic animals &amp; humans parasite.</li> </ul> </li> <li>(b) Vectors &amp; pests life cycle &amp; their control.</li> <li>(c) Animal breeding culture like aquaculture, pisciculture, poultry, sericulture, apiculture &amp; Lac culture.</li> <li>(d) Wild life of India in which they get knowledge of endangered species, important sanctuaries, National parks.</li> <li>• Project launched for preservation of conservation of wild life.</li> </ul>
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<b>Paper II</b> <b>302</b>	<b>Biotechnology, Immunology, Biological Tools &amp; Techniques &amp; Biostatics</b>	<ul style="list-style-type: none"> <li>• Students have better knowledge of-</li> <li>(a) Biotechnology:</li> <li>• Genetic engineering, Biotechnology of food processing, pharmaceuticals &amp; fermentation.</li> <li>(b) Immunology:</li> <li>• Concept &amp; types of immunity, antigen &amp; antibodies vaccine of different diseases &amp; immunological reactions.</li> <li>(c) Principle &amp; user of instruments like PH meter, calorimeter, microtome spectrometer &amp; centrifuge.</li> <li>(d) Microscopy chromatography &amp; Electrophoresis: Biostatics in which sampling, central tendency &amp; dispersion, correlation &amp; regression are involve.</li> </ul>
<b>Paper III</b> <b>303</b>	<b>Ecology, Microbiology Animal Behavior and Pollution &amp; Taxicology</b>	<ul style="list-style-type: none"> <li>• Students have gained detailed &amp; deep knowledge of-</li> <li>(a) Ecology- ecosystem, energy flow, food chain, food web etc, Biotic &amp; Abiotic factors population, adaption etc.</li> <li>(b) Microbiology: Morphology physiology &amp; infection of Bacteria &amp; virus &amp; diseases caused by them.</li> <li>(c) Behavior of animals, Ethology, patterns of behavior, biorhythms, migration of birds &amp; fisher.</li> <li>(d) Concept, sources &amp; types of pollution &amp; control of environmental pollution exposure of toxicants, dose-response relationship categories of toxic effects.</li> </ul>
<b>Practical Paper</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>• Students have prepare &amp; study slides of-</li> <li>• Entamoeba, Giardia, Leishmania, Trypanosoma, Plasmodium, Fasciola etc.</li> <li>• Permanent preparation of cimex/Pediculus, Haematopinus etc &amp; wing, mouth part etc of mosquito &amp; housefly.</li> <li>• Larval stages of helminthes &amp; arthropods.</li> <li>• Demonstration of counting of cells by haemocytometer.</li> <li>• Dissection- Central Nervous System of cockroach, Practical exercises based on Biostatics, Microbiology, Immunology, Biotechnology, Animal , Behavior, Pollution &amp; Toxicology.</li> </ul>

# Master of Arts (M.A) 2Years Degree Course

## Music Vocal

<b>M.A (Previous)  Theory Paper I</b>	<b>General and Applied Music Theory</b>	<ul style="list-style-type: none"><li>• Knowledge of Raganga classification and intensive Study of the following Rangangas: kalian, Bilawal, Bhairav, Kafi, Sarang, Bihag and Malhar.</li><li>• Genesis of Music (India and Western Views about development of Music).</li></ul>
<b>Theory Paper II</b>	<b>History and Aesthetics of Music</b>	<ul style="list-style-type: none"><li>• Vedic Music, Music of Ramayana and the Mahabharata the Puranas, Prati SaKhyas and Shikhas.</li><li>• Music of Jains, Buddhist, Maurya and Gupta age.</li><li>• Music at the time of Bharat, Matanga and Sharang Deva.</li><li>• Ancient principles regarding relationship of music with Rasa and its concept (Swar, Rasa, Laya-Rasa, Raga-Rasa, Chhanda Tal Rasa).</li><li>• General idea of the Western Philosophy of Arts and Aesthetics.</li></ul>
<b>Practical Paper I</b>	<b>Intensive and detail Study of Ragas</b>	<ul style="list-style-type: none"><li>• Shyam Kalyan, Hem Kalyan, Devgiri Bilawal, Yamuna Bilawal, Ahir Bhairav, Bairagi, Bageshwari, Dhanasri, suddha Sarang, Madmad Sarang, Maru Bihag, Bihagada, Sur malhar, Megh Malhar.</li></ul>
<b>Practical Paper II</b>	<b>Stage Performance</b>	<ul style="list-style-type: none"><li>• Dhrupad, Dhamars Singing with Layakaris. Students is Supposed to Perform Thumri and Tappa.</li></ul>

<b>Practical Paper III</b>	<b>Revision of Basic Ragas</b>	<ul style="list-style-type: none"> <li>• Intensive Study of Basic Ragas with Vilambit Alap and Drut composition.</li> <li>• Yaman, Alhaiya Bilawan, Bhairav, Purvi, Miya Ki Todi, jaunpuri, Malkosh, Bihag and Kedar.</li> <li>• Study of Light and folk songs.</li> <li>• Student has to submit five own compositions in the form of dissertation along with the notation.</li> </ul>
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<b>M.A (Final) Theory Paper III</b>	<b>Applied Music theory and musical compositions</b>	<ul style="list-style-type: none"> <li>• Intensive Study of the following Ranganagas Tori, Kanada, Gauri, Nata, Ashwari, Shri.</li> <li>• Nibadh a Gan and its varieties (From Prabandha to Modern Composition).</li> </ul>
<b>Theory Paper IV</b>	<b>History and Acoustics and Voice culture</b>	<ul style="list-style-type: none"> <li>• History (from the post Sharangdev period to Modern period).</li> <li>• The relation of ancient classification of India music during the middle ages with the other musical System, evaluation of the prevalent Views regarding influence of foreign music in India Music.</li> <li>• Comparative study of the Hindustani and Karnataka music system with special reference to Swara Raga, Tala and compositional patterns.</li> <li>• Principles of hearing-listening and physiology of ear 25 general principles of acoustics and study of the ancient and modern basic Scale Major Minor and Semitones.</li> </ul>
<b>Practical Paper IV</b>	<b>Intensive and detailed Study of Ragas</b>	<ul style="list-style-type: none"> <li>• Bilaskhani Todi, Bhopal Todi, kaunshik kanada, Sahna kanada, Gorui, Mali Gouri, Shuddha Nata, Nata-Bhairava, Komal Ashvari, gandhari etc.</li> </ul>
<b>Practical Paper V</b>	<b>Stage performance</b>	<ul style="list-style-type: none"> <li>• Dhrupad Dhamars gats with Layakaris.</li> <li>• Thumri, Tappa in in any one of following Ragas Desh, Pilu, Bhairavi.</li> </ul>

<b>Practical Paper VI</b>	<b>Revision of basic Ragas</b>	<ul style="list-style-type: none"><li>• Bhupali, Suddha Kalyan, Miyaki Malhar, Darhari Kanada, Chhayant, Bhipalasi, Puriya, Puriya Dhanashri, Multani, Lalit etc.</li><li>• Study of Light and Styles.</li><li>• One composition each from the following styles Rabindra Sangit, Bhajan, Gazal, Geet, Folk song.</li></ul>
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## Sanskrit (Literature)

एम0 ए0 प्रथम वर्ष  प्रथम प्रश्नपत्र	वैदिक भाषा तथा साहित्य	<ul style="list-style-type: none"> <li>• ऋग्वेद सूक्त, अथर्ववेद सूक्त, तैत्तिरीयोपनिषद्, निरुक्त, पणिनीय शिक्षा ।</li> <li>• छात्राओं को वैदिक साहित्य एवं वेद की जानकारी प्रदान करना वैदिक शब्दों के निर्वचन की प्रक्रिया से अवगत कराना एवं भाषा के महत्व को स्पष्ट करते हुए वर्ण उच्चारण की जानकारी प्रदान करना ।</li> </ul>
द्वितीय प्रश्नपत्र	व्याकरण एवं भाषा विज्ञान	<ul style="list-style-type: none"> <li>• संज्ञा एवं परिभाषा :सिद्धान्त कौमुदी संज्ञा एवं परिभाषा प्रकरण, कारक एवं विभक्त्यर्थ (सिद्धान्त कौमुदी, कारक प्रकरण), पालि प्राकृत, वाक्य संरचना सिद्धान्त, अर्थ विज्ञान—सिद्धान्त ।</li> <li>• भाषा के विविध रूपो एवं वाक्य संरचना व अर्थ विज्ञान सिद्धान्तो से छात्राओं को अवगत कराना ।</li> <li>• व्याकरण शास्त्र के आचार्यों का सामान्य परिचय प्रदान करते हुए व्याकरण के सिद्धान्तो यथा संज्ञा,परिभाषा,कारक विभक्ति आदि की जानकारी प्रदान करना ।</li> </ul>
तृतीय प्रश्नपत्र	भारतीय दर्शन	<ul style="list-style-type: none"> <li>• संख्यकारिका, वेदान्तसार, तर्कभाषा, चार्वाकदर्शन ।</li> <li>• दर्शन के अर्थ को स्पष्ट करते हुए दर्शन की विविध शाखाओं से सम्बन्धित आस्तिक—नास्तिक दर्शन के अन्तर्गत आने वाले दर्शनों की विस्तृत जानकारी प्रदान करना । सांख्य,न्याय,वेदान्त एवं चार्वाक दर्शन के सिद्धान्तो की विस्तृत व्याख्या ।</li> </ul>
चतुर्थ प्रश्नपत्र	साहित्य शास्त्र तथा सौन्दर्यशास्त्र	<ul style="list-style-type: none"> <li>• साहित्यशास्त्र के प्रमुख ग्रन्थ एवं प्रमुख सिद्धान्तों का संक्षिप्त परिचय, भरत—नाट्यशास्त्र (प्रथम अध्याय), भामह काव्यालंकार (प्रथम अध्याय), दण्डी—काव्यादर्श (प्रथम अध्याय), आनन्दवर्धन—ध्वन्यालोक (प्रथम उद्योत), काव्यप्रकाश (नवम एवं दशम उल्लास) ।</li> <li>• काव्य के अर्थ उसके भेद एवं काव्यशास्त्र की सामान्य जानकारी तथा नाट्यशास्त्र का परिचय प्रदान करना । भामह, आनन्दवर्धन दण्डी मम्मट आदि काव्यशास्त्रीय आचार्यों की रचनाओं का विस्तृत ज्ञान प्रदान करना ।</li> </ul>

एम0 ए0 द्वितीय वर्ष  पंचम प्रश्नपत्र	काव्य	<ul style="list-style-type: none"> <li>• मेघदूतम्, मृच्छकटिकम्, वेणी संहार, नैषधीयचरितम् (प्रथम सर्ग) ।</li> <li>• काव्य के विविध रूपो यथा महाकाव्य,खण्डकाव्य आदि तथा नाट्य के महत्व को स्पष्ट करना एवं मेघदूत,वेणीसंहार नैषधीयचरितम् तथा मृच्छकटिकम् आदि रचनाओं का विस्तृत विवेचन कर छात्राओं को उनसे परिचित कराना ।</li> </ul>
षष्ठ प्रश्नपत्र	संस्कृति धर्म दर्शन एवं कला	<ul style="list-style-type: none"> <li>• (अ) संस्कृति का अभिप्राय, भारतीय संस्कृति की विशेषतायें, संस्कृति एवं सभ्यता में अन्तर । (ब) वैदिक संस्कृति (स) रामायण तथा महाभारत कालीन संस्कृति, (द) मौर्य कालीन संस्कृति, (य) गुप्त कालीन संस्कृति, प्रमुख भारतीय दर्शन, कला, वैदिक एवं उपनिषद् कालीन धार्मिक परम्परा ।</li> </ul>

		<ul style="list-style-type: none"> <li>● संस्कृति के अर्थ को स्पष्ट करते हुए भारतीय संस्कृति की विशेषताओं की जानकारी प्रदान करना। विविध संस्कृतियों की पूर्ण जानकारी देना तथा विविध भारतीय दर्शन, कला एवं धर्म से छात्रों को परिचित कराना।</li> </ul>
सप्तम् प्रश्नपत्र वर्ग (ख)	संस्कृत काव्य तथा संस्कृत काव्य परम्परा	<ul style="list-style-type: none"> <li>● मुद्राराक्षस नाटक—विशाखदत्त, कुमारसम्भवम् (4 एवं 5 सर्ग), दशरूपक (प्रथम एवं चतुर्थ प्रकाश), संस्कृत काव्य परम्परा में महाकाव्य, खण्डकाव्य गद्य एवं चम्पू विधाओं का विकास। भामह, दण्डी, विश्वनाथ के द्वारा प्रदत्त उनके लक्षण, संस्कृत नाटक का उद्भव और विकास।</li> <li>● काव्य के सभी भेदों की विस्तृत जानकारी, दशरूपक के अनुसार रूपक के भेद, मुख्य तत्व, रस आदि का विस्तृत विवेचन तथा संस्कृत साहित्य की सभी विधाओं का परिचय प्रदान करना।</li> </ul>
अष्टम् प्रश्नपत्र	गद्य पद्य एवं चम्पू काव्य	<ul style="list-style-type: none"> <li>● पद्य, गद्य एवं चम्पू काव्य, हर्ष चरितम्, सौन्दर्यलहरी—शंकराचार्य लक्ष्मीधर कृत टीका, नल चम्पू (प्रथम), घटकर्पूर काव्य, गद्य, पद्य एवं चम्पू काव्य का सामान्य परिचय।</li> <li>● चम्पू का अर्थ, विशेषताओं एवं चम्पू काव्य के विकास का विस्तृत विवेचन। सौन्दर्यलहरी काव्य रचना के माध्यम से देवी पार्वती के स्वरूप का दार्शनिक दृष्टिकोण से अध्ययन कराना। गद्य—काव्य और गद्य—काव्य रचना हर्षचरित का विस्तृत विवेचन।</li> </ul>
नवम् प्रश्नपत्र	मौखिक परीक्षा	<ul style="list-style-type: none"> <li>● एम0 ए0 संस्कृत के सम्पूर्ण पाठ्यक्रम का सूक्ष्म एवं गहन अध्ययन कराना।</li> </ul>



# Sociology

<p><b>M.A(previous)</b>  <b>Paper I</b></p>	<p><b>Classical Sociological Tradition</b></p>	<p>Historical Socio- Economic Background of the emergence of Sociology.Traditional feudal economy and social structure.Marx’s theory of social change.Increasing division of labour in the capitalist society. Theory of Suicide: Review or earlier theories of suicide.Suicide rate..Theory of social action.Views on the role of ideas and values in social change with reference to the relationship between protestant.Theory of Bureaucracy.Capitalism Concept of status, class and power.Classification of Social action, logical and non -logical,circular of Elites.</p>
<p><b>Paper II</b></p>	<p><b>Methodology of Social Research</b></p>	<p>Philosophical Roots as Social Research. Nature of social Reality and Approaches. Quantitative methods and Survey research. Statistics in Social Research. Qualitative Research Techniques.</p>
<p><b>Paper III</b></p>	<p><b>Social Demography</b></p>	<p>Importance of its study in India. Basis Concept Theories of Population. Growth of population in India. Population Control and Family Welfare.</p>
<p><b>Group I-Paper I</b> <b>Paper IV</b></p>	<p><b>Rural Society In India</b></p>	<p>Rural Society in India as agrarian and peasant social structure. Family,caste,religions,habital and settlement. Mode of production and agrarian relation.Rural poverty Planned Change for Rural Society, Community Development Programmes and Rural Development. Major Agrarian Momets in India. Globalisation.</p>

<b>M.A (Final) Paper I</b>	<b>Theoretical Perspective in Sociology</b>	Relationship between theory and research. The idea of social structure: The problems of role analysis: Functional dimensions of social system: Neofunctionalism. Structuralism and Post-structuralism: Conflict Theory:Functional analysis of conflict. Frankfurt school Structuralism Marxism. Interactionist perspective. Phenomenological Sociology. Ethnomethodology: Structuration: Postmodernism.
<b>Paper II</b>	<b>Sociology of Change and Development</b>	Meaning and Forms of Social Change: Social Change in Contemporary India: Changing Conceptions of Development: Paths and agencies of Development: Culture and Development:
<b>Group II-I Paper III</b>	<b>Criminology</b>	Concept Approaches to crime.White-coller. Maxian,Changing profile of Crime and Criminals. Cyber crimes,theories of punishment. Correction and its forms of correction prison-based. Community-based correctional Programmes in Prisons: Prison reforms in India. Probation,parole-open prisons.
<b>Group III-I Paper IV</b>	<b>Environment and Society</b>	The rise,decline and resurgence of Environmental Sociology issues pertaining to population. Social impact assessment of environmental issues. Global Environmentalism: A Challenge to post-materialism thesis.

# Master of Science Chemistry

<p><b>M.Sc (Previous)</b></p> <p><b>Paper I</b></p>	<p><b>Inorganic Chemistry</b></p>	<ul style="list-style-type: none"> <li>• Student will gain the knowledge of</li> <li>• -Transition metal complexes, energy Profile of a reaction, inert and labile complex, acid and base hydrolysis Substitution reactions in square planer complex, the trans effect and its mechanism.</li> <li>• Crystal Field Theory, Molecular Orbital Theory.</li> <li>• Higher boranes, Carboranes Isopoly and heteropoly acid.</li> </ul>
<p><b>Paper II</b></p>	<p><b>Organic Chemistry</b></p>	<ul style="list-style-type: none"> <li>• Students gain the knowledge of Delocalized chemical bonding-conjugation Hyper conjugation tautomerism Aromatic in benzoid and non-benzoid compounds alternate and non alternate hydrocarbon.</li> <li>• Conformational analysis of alkanes, sugar, elements of symmetry and stereo chemistry.</li> <li>• A deep knowledge of Name Reaction mechanism .</li> <li>• Deep knowledge of Substitution, Addition and Elimination Reaction.</li> <li>• Hydrogenation of unsaturation.</li> <li>• Types of free radical-Free radical substitution mechanism, mechanism of an aromatic substrate allylic halogenations sandmayer's reaction molecular orbital Symmetry.</li> </ul>
<p><b>Paper III</b></p>	<p><b>Physical Chemistry</b></p>	<ul style="list-style-type: none"> <li>• Students gain the knowledge of quantum chemistry.</li> <li>(I) Introduction to exact Quantum mechanism, Schrodinger.</li> <li>(II)The variation theorem Linear Variation principle.</li> <li>(III)Ordinary momentum Engen function of angular ladder operators.</li> <li>• Thermodynamics classical &amp; statistical thermodynamic, Debye-Huckle theory of activity coefficient of electrolytic solution fermi Dirac statistics and Bose Einstein statistics partition functions and its type.</li> <li>• Determining rate laws collision theory of reaction rates. Activated complex theory HBr HCl reaction Homogeneous catalysis.</li> </ul>

		<ul style="list-style-type: none"> <li>• Surface chemistry.</li> <li>• Micro molecules, polymer and its type's polarography theory, Iikovin equation.</li> </ul>
<b>Paper IV</b>	<b>Spectroscopy and Diffraction Methods</b>	<ul style="list-style-type: none"> <li>• Students gain the deep knowledge of-</li> <li>• UV, IR and Raman Spectroscopy.</li> <li>• Electronic spectroscopy, Atomic spectroscopy and molecular spectroscopy frank condon principal.</li> <li>• NMR, ESR spectroscopy.</li> <li>• Electron diffraction low energy electron diffraction and surfaces.</li> </ul>
<b>Practical Paper</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>• <b>Inorganic chemistry-</b> Qualitative and Quantitative Analysis, Separation and determination of two metal ions, Chromatography of inorganic compounds.</li> <li>• <b>Organic Chemistry-</b> Qualitative Analysis Separation, Purification and identification of compound of binary mixture, Organic Synthesis- Acetylation, Aldol Condensation, Sandmayer reaction, Cannizzaro reaction.</li> <li>• <b>Physical Chemistry -</b> To Study Surface tension concentration relationship for solution.</li> <li>• Determination of the velocity constant of hydrolysis of an ester.</li> <li>• Determination of molecular weight of non-variable and non- electrolyte by Cryscopic method to determine the activity coefficients of on electrolyte.</li> <li>• Determination of solubility solubility product of sparing soluble salts conductometrically.</li> <li>• Determination of the strength of strong and weak acid in a given mixture conductometrically or p<sup>H</sup> meter.</li> <li>• Acid base titration in a non-aqueous media using a p<sup>H</sup> meter.</li> </ul>

<p><b>M.Sc. (Final)</b></p> <p><b>Paper I</b></p>	<p><b>Inorganic General Chemistry</b></p>	<ul style="list-style-type: none"> <li>• Students gain the knowledge of Vibrational spectroscopy symmetry and shapes</li> <li>• NMR spectroscopy of Paramagnetic substances</li> <li>• Awareness of essential trace elements with special reference to Hemoglobin and Myoglobin and Nitrogen fixation.</li> <li>• Bioenergetics and ATP cycle, DNA polymerization Glucose storage, photosystem I and II in cleavage of water.</li> <li>• Students must understand composition micro and macro nutrients pollution fertilizers, pesticides and plastics metals BOD and water purification.</li> </ul>
<p><b>Paper II</b></p>	<p><b>Organic General Chemistry</b></p>	<ul style="list-style-type: none"> <li>• Students gain the deep knowledge of-</li> <li>• Mass and NMR spectrometry.</li> <li>• A deep knowledge of photo chemistry.</li> <li>• Enzyme, Coenzymes, Apoenzyme transition state theory acid base catalysis covalent catalysis addition and elimination reaction enzyme catalyzed carboxylation decarboxylation.</li> </ul>
<p><b>Paper III</b></p>	<p><b>Physical General Chemistry</b></p>	<ul style="list-style-type: none"> <li>• Students gain the knowledge of</li> <li>• Solid state Reaction study of Frenkel and Schottky defects semiconductors p-n junction super conductors quantum theory of paramagnetic.</li> <li>• Thermodynamics of Biopolymers solution.</li> <li>• Bioenergetics Hydrolysis of ATP polypeptide and protein structures.</li> <li>• Cell membrane and transport of ions hydrogen on titration curves.</li> </ul>
<p><b>Paper IV</b></p>	<p><b>Organic Special Chemistry</b></p>	<ul style="list-style-type: none"> <li>• Student gain the deep knowledge of - Terpenoids, <math>\alpha</math>-terpeneol, Zingiberene <math>\beta</math>-Carotene, citral and its synthesis.</li> <li>• Structure and analysis of Alkaloid, Steroids, Plant pigments.</li> <li>• Students have a better knowledge of Antibiotics chloramphenicol tetracycline and streptomycin.</li> </ul>

<b>Practical Paper</b>	<b>Organic Chemistry Practical</b>	<ul style="list-style-type: none"><li>• Separation and identification of components of mixture of three organic compound.</li><li>• Multi step synthesis of organic compounds.</li><li>• Extraction of organic compounds from natural sources, Isolation of caffeine from tea leaves, casein from milk, lactose from milk.</li><li>• Paper chromatography- separation and identification of sugar present in mixture of glucose, fructose, determination of RF values.</li><li>• Spectrophotometric estimation Amino acid, Carbohydrate, Aspirin, Caffeine.</li></ul>
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# Zoology

<p><b>M.sc (Previous)  Paper I</b></p>	<p><b>Structure &amp; Function in Invertebrates</b></p>	<ul style="list-style-type: none"> <li>• In this Paper students have gained a better knowledge of-</li> <li>• Principles of Animal Taxonomy, ICZN, animal collection &amp; preservation.</li> <li>• Locomotion through flagella &amp; ciliary movement in protozoa &amp; hydrostatic movement in animals.</li> <li>• Nutrition &amp; digestion (with different patterns of feeding), Respiration, excretion mechanism.</li> <li>• Primitive &amp; Advance Nervous System.</li> <li>• Invertebrate larval forms with their evolution and minor phyla.</li> <li>• Parasites of Protozoans &amp; Helminthes.</li> </ul>
<p><b>Paper II</b></p>	<p><b>Tools &amp; techniques for Biology, Cell Biology &amp; Biostatics</b></p>	<ul style="list-style-type: none"> <li>• Students came to know about-</li> <li>• Different tools &amp; techniques for Biology.</li> <li>• Deep study of Cell Biology, Cytoskeleton, cilia, flagella and cell cycle.</li> <li>• Molecular structure of chromosomes.</li> <li>• Biostatics, Variation, standard deviation, co-efficient of variation.</li> <li>• Sampling, presentation of different types of graphs, pie chart etc.</li> <li>• Test of significance, t- test, chi square test, f- test.</li> <li>• Probability distribution, correlation &amp; regression.</li> </ul>
<p><b>Paper III</b></p>	<p><b>Genetics, Molecular Biology &amp; Biotechnology</b></p>	<ul style="list-style-type: none"> <li>• Student gain the basic knowledge of-</li> <li>• Genetics: basic concept of genetics, Inborn human diseases.</li> <li>• DNA replication, Transcription, Translation.</li> <li>• Recombination of DNA &amp; repairing and Molecular mapping of genome.</li> <li>• Biotechnology: basic Concept of genetic engineering and its application in industry</li> <li>• Hybridization technology, cell &amp; tissue cultures and DNA finger printing.</li> </ul>

<b>Paper IV</b>	<b>Environmental Biology, Toxicology &amp; Ethology</b>	<ul style="list-style-type: none"> <li>• Students have a better knowledge of -</li> <li>• Detailed study of Environmental Biology, Biotic community, Population ecology, pollution types effects &amp; control.</li> <li>• Conservation and protection of Natural resources and endangered species.</li> <li>• Toxicology: Environmental Toxicology and food additives.</li> <li>• Human Toxicology &amp; medical ethics, Development of toxicology as special branch of science.</li> <li>• Ethology: Elementary movement of animal &amp; migration. Breeding behavior &amp; parental care.</li> <li>• Pheromones, learning &amp; motivation.</li> <li>• Means of communication, Hormonal control of behavior, Behavior genetics.</li> </ul>
<b>Practical Paper</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>• Determines and observe the following, BOD, COD, Chloride, Sulphate, Alkalinity, Acidity, Hardness &amp; PH determination.</li> <li>• Biostatistical analysis</li> <li>• Biotechnology- Cell culture study, Cell division etc.</li> <li>• Toxicology- Determination of LC<sub>50</sub> &amp; LD<sub>50</sub> (96 hrs).</li> <li>• Other items &amp; Dissection- Major-Squilla, Prawn, Pila, Loligos, Sepia, minor- Leech, Echinus.</li> </ul>

<b>M.sc (Final) Paper I</b>	<b>Comparative Anatomy of Vertebrates &amp; Developmental Biology</b>	<ul style="list-style-type: none"> <li>• Here students get the knowledge of-</li> <li>• Comparative anatomy and morphology of vertebrates.</li> <li>• Origin of chordate &amp; classification.</li> <li>• Vertebrate integuments &amp; its derivatives.</li> <li>• Circulation, Blood &amp; evolution, Respiratory system, Skeletal system, Urinogenital system, sense organs, Nervous system in vertebrate.</li> <li>• Developmental Biology: Gametogenesis, Different types of eggs, Cleavage, Blastulation &amp; Gastrulation, Organogenesis (of chick) &amp; placenta in mammals.</li> </ul>
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<b>Paper II</b>	<b>Physiology &amp; Biochemistry</b>	<ul style="list-style-type: none"> <li>• Students have a deep knowledge about.</li> <li>• <b>Physiology:</b> Respiration, circulation, Nutrition, digestion &amp; absorption, Excretion, Coordination, Thermoregulation &amp; osmoregulation.</li> <li>• Endocrinology and muscle contraction.</li> <li>• Chemistry of amino acids &amp; peptide carbohydrates, Vitamins, proteins, Nucleic acid &amp; Nucleotides.</li> <li>• Analytical &amp; separation techniques in biochemistry.</li> <li>• Regulation of metabolism carbohydrates, lipids, nucleotides &amp; amino acid metabolism.</li> </ul>
<b>Paper III</b>	<b>Entomology- Morphology, Anatomy, Physiology &amp; development</b>	<ul style="list-style-type: none"> <li>• Students gain deep knowledge of -</li> <li>• <b>Insect Morphology:</b> Integuments, head, thorax, abdomen, integuments, wings, antennae &amp; genital organs of insect.</li> <li>• <b>Insect Anatomy:</b> Deep study of Digestive, Excretory, Respiratory, Circulatory, Nervous &amp; Reproductive System of Insects.</li> <li>• <b>Insect Physiology:</b> Physiology of Digestion, excretion, production &amp; reception of sound, Insect eye Hormones &amp; Hormonal control.</li> <li>• Developmental biology &amp; types of metamorphosis, Hormonal control of metamorphosis &amp; Ecdysis.</li> </ul>
<b>Paper IV</b>	<b>Entomology System Ecology &amp; Applied Entomology</b>	<ul style="list-style-type: none"> <li>• Students will know about entomology &amp; its classification deeply.</li> <li>• Systematic: Knowledge of <b>International code of Nomenclature</b> with special reference to law of priority.</li> <li>• Linnean Hierarchy, Evolution &amp; History of Entomology.</li> <li>• Ecology: Biotic &amp; Abiotic factors.</li> <li>• Economic importance of insects, Life History, damage and control by insecticides.</li> <li>• Apiculture, Sericulture, Lac culture industry in India and Insects as vectors of various diseases.</li> </ul>
<b>Practical Paper</b>	<b>Practical</b>	<ul style="list-style-type: none"> <li>• Students have gain deep knowledge of-</li> <li>• <b>Dissection Vertebrate-</b> Major- Cranial nerves and Afferent, Efferent Branchial Arteries of dog fish, Minor- Internal ear Dog fish &amp; Electric organs of Electric Ray.</li> </ul>

		<ul style="list-style-type: none"><li>• <b>Entomology</b>- Major- N.S of grasshopper, Minor- sting apparatus of honey bee.</li><li>• Osteology- bones of skull, vertebrate column, limbs girdle) Amphibia, Reptiles, Mammalian, etc.</li><li>• Permanent mounting- Histological slides of various insects &amp; larvas &amp; various organ systems.</li><li>• Spotting &amp; identifying vertebrate specimens, Study of permanent slides of chick embryology.</li><li>• Physiology &amp; Biotechnological experiments.</li></ul>
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# Bachelor of Home Science (6 semester Course)

## Semester (I)

<b>Paper I</b>	<b>Applied Mathematics</b>	<ul style="list-style-type: none"><li>• Numbers System, Test of Divisibility, LCM, HCF Application of Numbers, Simplification, General Arithmetic, Simple, Compound Interest, Work time &amp; Speed, Percentage, Profit Loss &amp; Discount, Algebra-Fundamental operation factorization, Simultaneous equations, Menstruation, Statistics.</li></ul>
<b>Paper II</b>	<b>Chemistry I</b>	<ul style="list-style-type: none"><li>• Introduction, definition, Branches of chemistry.</li><li>• Elementary Study of Atomic structure- Ionization- Idea of pH and buffer solution, Elementary Idea of oxidation &amp; Reduction, Water-Hard &amp; Soft-water, Catalysis types theory, Elementary idea of colloidal solutions.</li><li>• Radioactivity-Study of <math>\alpha, \beta, \gamma</math>.</li></ul>
<b>Paper III</b>	<b>General English I</b>	<ul style="list-style-type: none"><li>• Vocabulary Building- Word formation, Synonyms, Antonyms, Homophones, Idiomatic phrases, Prepositions- Model verbs, Conditional sentence, transformation and synthesis precise writing, Essay Writing, Letter &amp; Application for job and Resume.</li><li>• Language work, Identification of phonetic sound and symbols, Stress and Intonations, listening Comprehension, Speaking English.</li></ul>
<b>Paper IV</b>	<b>Environmental Studies</b>	<ul style="list-style-type: none"><li>• Multidisciplinary Nature of Environment studies.</li><li>• Human Population, Population growth, Environment and human health, Environment Pollution, Solid waste Management, Ecosystem function of an ecosystem food chain pyramids.</li><li>• Energy flow in the ecosystem.</li></ul>
<b>Paper V</b>	<b>Horticulture and Gardening</b>	<ul style="list-style-type: none"><li>• Gardening Layout of Garden soil preparation watering.</li><li>• Manures and fertilizes, Preparation of Artificial, Kitchen garden, Principles and planning, Lawn Designing, Principles care &amp; cultivations, Plan deceases bacterial fungal &amp; viral.</li><li>• General characteristics morphology &amp; economic importance of algae, fungi &amp; moulds.</li></ul>

## Semester (II)

<p><b>Paper VI</b></p>	<p><b>Computer Application</b></p>	<ul style="list-style-type: none"> <li>• Windows operating system- Introduction &amp; what is windows like XP mouse, basic, concept and application, my computer- opening your device &amp; window explorer, windows accessories like clip board, calculator, m-s point, word pad etc, word processing basics &amp; paragraph formation &amp; formatting, managing writer document, tables and graphics in writer- Introduction &amp; creating table inserting new table with text wrapping &amp; using the writer &amp; drawing tools etc.</li> </ul>
<p><b>Paper VII</b></p>	<p><b>Chemistry II</b></p>	<ul style="list-style-type: none"> <li>• Fuel &amp; fuel gases- definition, types and characteristics of a good fuel, Prevention of fire &amp; types of fire extinguishers with uses, IUPAC nomenclature of organic compounds, Elementary study of drugs-definition classification, application and their mode of actions antibodies, antiseptic, analgesic etc.</li> <li>• Carbohydrates- definition, preparation, properties &amp; uses of glucose &amp; sucrose, Amino acids &amp; proteins- definition classification, preparation &amp; uses and simple test of protein.</li> </ul>
<p><b>Paper VIII</b></p>	<p><b>Elementary Physiology</b></p>	<ul style="list-style-type: none"> <li>• Elementary study of cell structure, component and their function, elementary anatomy of various systems like cardiovascular system, blood &amp; its composition, blood etc, Gastrointestinal system, structure and functions of various organs of the G.I tract, digestion and absorption, Muscular- skeletal system, formation of bone, respiratory system, structure of lungs etc., Excretory system- structure and function of kidney, bladder, formation of urine etc.</li> <li>• Nervous system, functions and sense organs and their functions.</li> </ul>
<p><b>Paper IX</b></p>	<p><b>Psychology</b></p>	<ul style="list-style-type: none"> <li>• Definition of psychology with their scope branches like social, clinical, educational, abnormal etc.</li> <li>• Importance and applications, Methods of studying human behavior, Personality, Motivation, frustration and conflicts, Learning, memory and forgetting, individual differences, Intelligence, Attention and interest in with definition, characteristic types and</li> </ul>

		condition, Administration of personality and frustration test and adolescent.
<b>Paper X</b>	<b>Bio Chemistry</b>	<ul style="list-style-type: none"> <li>• Introduction of biochemistry and relationship with other biological schemes, Carbohydrates- Introduction classification structure and general properties and digestion with absorption of carbohydrates in human body, Metabolism of carbohydrate like glycolysis and kreb's cycle.</li> <li>• Metarotation of carbohydrates, lipids: composition, classification and general properties and lipid metabolism, Elementary knowledge of different sterols cholesterol, ergosterol etc, Proteins &amp; amino acid, Minerals &amp; harwomen- Introduction &amp; protiens with their uses.</li> </ul>

### Semester (III)

<b>Paper XI</b>	<b>Human Development- I</b>	<ul style="list-style-type: none"> <li>• Principles of growth- Determinants of Development, Prenatal development- Antenatal care, Signs and symptoms of pregnancy, Discomforts, diagnostic test, EDD, Labor and its stage, types of birth, IUGR.</li> <li>• SFDC, Physical &amp; psychological preparation, Care of the mother &amp; Newborn, Puerperium period, Immunization, Infancy(0-2years), Early childhood period (2-6 years), Childhood period (7-11 years).</li> </ul>
<b>Paper XII</b>	<b>Fundamental Of Nutrition &amp; Food Science</b>	<ul style="list-style-type: none"> <li>• Functions of food, Nutrients, Fat Soluble vitamins, Water soluble vitamins minerals, Basic food groups, Methods of cooking &amp; preventing Nutrient losses.</li> <li>• Nutritional Improvement of foods.</li> </ul>
<b>Paper XIII</b>	<b>Fundamental Of Textiles</b>	<ul style="list-style-type: none"> <li>• Classification of Textile fibers, Raw Material Properties &amp; uses of- Natural fibers &amp; synthetic fibers, Yarn properties, Types of Yarn, Blends, Fabric-Techniques of various fabric construction, Study of hand loom, Fabric faults &amp; Defects, Finishing-Basic &amp; functional, Care of Textiles, Stain Removal, Dry cleaning, Disinfecting the fabric, Storage of various clothing.</li> </ul>

<b>Paper XIV</b>	<b>Family Finance &amp; Consumer Education (FRM-I) Education</b>	<ul style="list-style-type: none"> <li>• Meaning, Importance of family finance, Family Income, Types of Income, Budget &amp; Saving, Saving-Importance &amp; methods of saving, Consumer education, Meaning objectives &amp; need of consumer education in India.</li> <li>• Consumer rights &amp; Responsibilities, Market, Problems of consumer.</li> </ul>
<b>Paper XV</b>	<b>Extension Education and Community Development (ECM-I)</b>	<ul style="list-style-type: none"> <li>• Extension education, Formal &amp; non formal education, Difference between extension education &amp; Adult, Social &amp; Functional Education.</li> <li>• Role of Home Science extension education in National development, Role and qualities of extension personal, History perspective-Pre-independence &amp; Post.</li> <li>• Community development and panchayati Raj, Community development programme, Types of community development, Institution for community development in India.</li> <li>• Support Structures and their function, GO's NGO,s Central &amp; State Social welfare board, National level voluntary Agencies, DRDA, CAPART, KVK's, KVIC &amp; NIPCCD extension Teaching models.</li> </ul>

## Semester (IV)

<b>Paper XVI</b>	<b>Early Childhood Care And Education</b>	<ul style="list-style-type: none"> <li>• Early childhood education, Recent trends and achievement in ECCE, Curriculum for ECCE, Play, Principles of program planning, Literature for children-Understanding need for literature for children, Play.</li> <li>• Activities in the pre-school, Creative Activities, Music and dance, Science experiences, Nature study and field trips, Activities to develop mathematical concept.</li> </ul>
<b>Paper XVII</b>	<b>Nutrition for the Family</b>	<ul style="list-style-type: none"> <li>• Food groups, Food exchange list, Meal planning, Dietary guidelines for Indians food pyramid, Nutrients requirements, Energy Metabolism, Nutrition during the Adult years, Nutritional during childhood, Nutrition for special conditions.</li> </ul>
<b>Paper XVIII</b>	<b>Textile Design TAD-II</b>	<ul style="list-style-type: none"> <li>• Elements of Design &amp; Principles of Design, Types of Design, Dyeing, Textile &amp; Environment, Printing, Batik and tie &amp; Dye, Traditional fabrics, Traditional painted fabric, Traditional woven fabric.</li> </ul>

<b>Paper XIX</b>	<b>Concept &amp; Principles of Home Management FRM-II</b>	<ul style="list-style-type: none"> <li>• Definition, Importance of Home management, the management process planning, organization, controlling and Evaluation, System Approach to management, Decision making process, Values, goals, standered, Family resources, Factors affecting resources.</li> </ul>
<b>Paper XX</b>	<b>Teaching Methods and Media</b>	<ul style="list-style-type: none"> <li>• Teaching learning process, Approaches in extension education, Methods of extension education to Approaches, Audio-visual Aids, Media, Folk media, Print media, Electronic media.</li> </ul>

## Semester (V)

<b>Paper XXI</b>	<b>Human Development-II (HDFS-II)</b>	<ul style="list-style-type: none"> <li>• Puberty and Adolescence (11 to 21 years), Primary and secondary sexual characteristics, Identity, Social Relationship, Heterosexual, Adolescent's emotions, Problems, Young Adulthood (20-35 year).</li> <li>• Choosing a career, Responsibilities &amp; adjustment-occupational, marital, parenthood, Middle Adulthood(35-55 years), Reproductive changes, Stresses in middle age, Preparation for retirement, Late adulthood (55 to 65 years) &amp; (65 years onwards), Retirement-effect of Retirement, emotional, Old age, Issues, National policies, Death.</li> </ul>
<b>Paper XXII</b>	<b>Diet Therapy</b>	<ul style="list-style-type: none"> <li>• Principles of Diet Therapy, Planing Implementation, Evaluation of Nutruition care, Therapeutic Adaptation of normal Diet, Qualitative &amp; Quantitative adaption, Weight manegment, Ealing Disorders, Nututional Manegment of Infection or fevers, Small &amp; large Intestine Disorders, Cardiovascular &amp; common metabolic disordes, Diabetes millites type I-II, Gout.</li> </ul>
<b>Paper XXIII</b>	<b>Family Clothing (TAD-III)</b>	<ul style="list-style-type: none"> <li>• Origin and psychology of clothing, Clothing needs of family various stages, fashion.</li> <li>• Making garments-drafting, draping, pattern making, Advantages limitations and scope, Importance of body measurement, Fabric grain, Preshrinking, straightening and truing, Lay-out for patterns, Lay-out for fabrics, Pinning, making, cutting, fabric foulds, Selection of fabric for various ends, Selection of clothes in view.</li> <li>• Appropriate labels on fabric and garments.</li> </ul>

<b>Paper XXIV</b>	<b>Family Housing (FRM-III)</b>	<ul style="list-style-type: none"> <li>• Housing-needs, importance, scenario in India, Renting &amp; ownership, House planning- Selectin of site, vastu shastra, Types of house plans, Construction and Building material, Housing Legislation and schemes, Building codes, Bye-laws, NBO &amp; Govermental housing schemes.</li> </ul>
<b>Paper XXV</b>	<b>Programme Planing for Rural Development- ECM-III</b>	<ul style="list-style-type: none"> <li>• Need of programme planning, Meaning principles objectives of programme planning, Steps in programme planning, Plan of work, Programme Execution criteria &amp; types of evaluation, Leades &amp; Leadership, Rural Development Programme, Planing commission of India in Brief.</li> </ul>

## Semester (VI)

<b>Paper XXVI</b>	<b>Marriage and Family Dynamics</b>	<ul style="list-style-type: none"> <li>• Marriage in Indian society, Marital Adjustment, Legal laws related to marriage in India, family, Dysfunctional families and family counseling, Dysfunction families, Family counseling.</li> </ul>
<b>Paper XXVII</b>	<b>Community Nutrition</b>	<ul style="list-style-type: none"> <li>• Scope of community nutrition, Food related behavior, Assessment of Nutritional status, Nutritional problems PEM, Anemia, Vitamin A, Iodine disorder, fluorosis.</li> <li>• Nutrition policy &amp; programme in India, Nutrition education.</li> </ul>
<b>Paper XXVIII</b>	<b>Fashion and Apparel Design (TAD IV)</b>	<ul style="list-style-type: none"> <li>• Dynamics of fashion Fashion and consumar, Fashion marketing, Fashion retailing, Location of Retail store, Types of Retail, Retail fashion sales promotion, fashion as career.</li> </ul>
<b>Paper XXIX</b>	<b>Interior Design and Home Decoration (FRM-IV)</b>	<ul style="list-style-type: none"> <li>• Interior design and Home decaration design, Colour- Colour theory, colour, system, Dimensions of colours, colour wheel, colour, schemes, furnishing, flower arrangements.</li> </ul>
<b>Paper XXX</b>	<b>Communication Process &amp; Adoption (ECM-IV)</b>	<ul style="list-style-type: none"> <li>• Meaning of communication, Key Elements, Models of communication, Types of communication, Barriers of communication, Innovation &amp; Diffusion, Rate of Adoption, Development of communication.</li> </ul>



