**Curriculum Vitae**

Name: **ABUL KALAM MOHAMMAD ANWARUZZAMAN**

Designation: Associate Professor of Geography, Aliah University

Address: (University / Office): Deptt. Of Geography, Aliah University, Kolkata (WB), PIN– 700014

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**Total Service Rendered**: 22 Years (as on 17. 03. 2018)

**Other services** (Full-time):

i) Research Associate at IIM, Ahmedabad (February 1996 to July 1996).

 ii) Research Fellow, CCFCL, New Delhi (August 1996 to 10thMarch 1997).

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| **Examination Passed** | **Board / University** | **Subjects/Area** | **Year****Of passing** |
| Secondary Examination | W.B.B.S.E. | Beng, Eng, , Math, PhySc, Life Sc, Hist, Geo, W Ed. | 1986 |
| S SS C (+2) | AMU, Aligarh | Physics, Chem., Math &Eng | 1989 |
| Bachelor’s Degree (BA Hons) | AMU, Aligarh | Geography (Hons), Eng, Beng&Eng (compulsory) | 1992 |
| Master’s Degree (MA) | JNU, New Delhi | Geography | 1994 |
| P. G. Diploma equivalent to M.Tech/M. Phil | CEPT, Ahmedabad | Urban and Regional Planning | 1996 |
| Ph. D. |   Award: 31/01/2012 | NBU, Darjeeling | Human Fertility (Topic: **Differentials in Fertility by Religion: A Case Study of Darjeeling District)** | 2012 |

**Academic Qualifications:**

**Other course(s)/Short Term Courses/Training completed**:

1. Three weeks course on “Integrated Approach to Knowledge and Information for College and University Teachers” during 28th December 2005 to 17th January 2006, conducted by National Institute of Advanced Studies, IISc, Bangalore.
2. Short Term training course on “Digital Mapping and Geographic Information System (DMGIS)” during 04.04.2011 to 29.04.2011 at NATMO (Kolkata), DST, Government of India, CGO Complex, Salt Lake, Kolkata.
3. Certificate course on “Remote Sensing and GIS” during 14.05.2012 to 06.07.2012 at the WBCST, DST, Gov. of WB, BikashBhawan, Salt Lake, Kolkata.
4. Summer School on “Geo-information System” Geomatics-2014, during 25.06.2014 to 15.07.2014 at the Deptt. of Geography, University of Burdwan, Burdwan.
5. Short Term Course on “Computer Application” during 15.02.2016 to 21.02.2016 at the AMU Murshidabad Centre, AMU, Aligarh.

**Other examinations qualified:**

1. NET conducted by University Grants Commission, June 1994.
2. SLET accredited by UGC, conducted by Rajasthan PSC, Ajmer, April 1995.
3. NET conducted by Agricultural Scientist Recruitment Board, ICAR, New Delhi, December 1996.

**Research experience**:

1. **Research projects carried out:**

One UGC-MRP on “Differential in Fertility by Religion: A Comparative Study of Hindu-Muslim Fertility in Darjeeling District” of 02 Years completed and submitted Final Report to the UGC in January, 2008**.**

1. **Full-time Research Work:**
2. Research Associate at the IIM, Ahmedabad with Public System Group (February 1996 to July 1996).
3. Research Fellow, CCFCL, New Delhi (August 1996 to March 1997).
4. Teacher Fellow under UGC-FDP for completion of Ph. D. on “**Differentials in Fertility by Religion: A Case Study of Darjeeling District”,**CHS, NBU, Darjeeling.
5. **Other Research Activities:**
6. Six months in a project “Trend of Urbanization in Indian Sub-Continent” under Prof. AtiyaHabeebKidwai, CSRD, JNU, New Delhi (Part-Time).
7. Three months in a project “Property Tax Assessment for Ahmedabad Municipal Corporation” under Prof. SivanandSwamy in CEPT, Ahmedabad (Part-Time).
8. Three months in a project “Preparation of Development Status Report for Coastal Gujarat” in an NGO of Mr. Rajesh Shah, Ahmedabad (Part-Time).
9. Six months in an ICSSR project “Need Assessment for Rural Housing in Gujarat” under Prof. C. N. Ray in CEPT, Ahmedabad (Part-Time).
10. Six months as a Research Associates under Professor PremPangotra, Public system Group, IIMA, Ahmedabad for City Monitor Project (Full-Time).
11. Six months as Research Fellow under Joseph Gathia, CCFCL, MayurVihar Phase-II, New Delhi (Full-Time).

**Seminars, Conferences, Symposia etc.attended and presented paper:**

**National Level:**

1. Paper presented entitled “Violation of Human Rights in the form of Child labour: A Regional Perspectives” presented in the UGC sponsored seminar on “Education and awareness of human rights” organized by A C. College, Jalpaiguri(WB) during 21st -22nd July, 2001.
2. Paper presented entitled “Wetland in Danger: A Case of Wetland in Malda District” presented in the UGC sponsored seminar on “Standard of living, social disruption and environmental degradation” organized by Malda Women’s during 10th -11th August, 2001.
3. Paper presented entitled “Threatened Wetland of Malda District” presented in the UGC sponsored seminar on “Geography in the new millennium: Emerging trends, issues and prospects” organized by Deptt. Of Geography and Applied Geography, NBU during 19th-21st March, 2002.
4. Paper presented entitled “Gorgon Cultivation: A Serious Threat to Wetland Biodiversity” in the UGC sponsored seminar on “Bio-diversity: Its’ Environmental Impact and Associated Diseases” organized by P D Women’s college, Jalpaiguri during P D Women’s college, Jalpaiguri during 27th -28th Nov, 2004.
5. Paper presented entitled “Desertification in Barind: An Unrecognised Calamity” presented in UGC sponsored seminar on “Society, Economy and Development Perspectives in North Bengal” organized by NetajiSubhashMahavidyalaya, Haldibari during 5th -6th March, 2005.
6. Paper presented entitled “Immigration in the Foothills of Eastern Himalaya: A Serious Threat to Local Economy, Ecology and Security” presented in UGC sponsored seminar on “Geopolitical Situations in the Eastern Himalayas with special reference to security issues” organized by CHS, NBU during 21st -22nd March, 2005.
7. Paper presented entitled “Quality of Evaluation as an Index of Quality of Education” presented in the UGC-NAAC sponsored seminar on “Concept of quality education in the context of ‘National Education Policy” organized by Balurghat College, Balurghat during 10th -11th June, 2005.
8. Paper entitled “In-migration in Jalpaiguri: Nature and Trend” presented jointly with Swati Mollah in the UGC sponsored seminar on “In-migration in Jalpaiguri: Nature and trend” organized by Mainaguri College, Jalpaiguri during 11th -12th July, 2007.
9. Paper presented entitled “Inter-linking of Rivers: Development or Disaster ” presented jointly with Swati Mollah and NoorjahanKhatoon in the UGC sponsored seminar on “Changing Perspective o Development and Regional Imbalances” organized by Malda Women’s College, during 28th – 29th September, 2007.
10. Paper presented entitled “Transformation of Foothills of Jalpaiguri District and Resultant Environmental Consequences” presented jointly with Dr. R. Sahu in the UGC sponsored seminar on “Science, Technology and Development in Himalayas” organized by CHS, NBU during 23rd –24th March, 2009.
11. Paper presented entitled “Mining of Sands and Lifting of Gravels from the Balason Bed: Promoting Development or Inviting Disaster?” presented in the UGC sponsored seminar on “Geography, Society and Politics in the Himalayas” organized by CHS, NBU during 30th -31st March, 2010.
12. Paper presented entitled “Backwardness of River Islanders: A Case study of Panchanandapur River Island in Malda District” presented in the ICSSR, Kolkata sponsored seminar on “Regional Backwardness: Social Consequences and Concerns” organized by during17th -19th May, 2010.
13. Paper entitled “Gender Gap in Literacy in Urban West Bengal: A Regional Analysis” presented in the UGC sponsored seminar on “Urbanization: Issues and Challenges” organized by APG, Patiala during 17th to 18th November, 2010.
14. Paper presented entitled “Backwardness of Piarpur (Char) River Islanders: A Geographical Analysis” jointly with Swati Mollah in the UGC-DST-Survey of India sponsored conference (32nd NAGI Congress) on “Population, Resource and Development” organized by NAGI-Deptt. Of Geography, Panjab University during 19th November to 21st November, 2010.
15. Paper presented,as a key speaker, entitled “Country-Town Symbiosis and Delineating City Region of English Bazar (WB)” in the UGC sponsored seminar on “City Regions: Perceptions, Policies and Practices to Formulate Future Urban Regional Planning and Development Strategies” organized by ISPER, Panchkula (Haryana) during 20th to 21st April, 2012.
16. Paper presented (jointly) entitled “Quality of Higher Education and State of Academic Libraries with Special Emphasis on College Libraries of Murshidabad District” in the UGC Sponsored seminar on “Quality Education and Role of Teachers’ in the Changing Scenario”, Organised by Govt. Teachers’ Training College, Malda, from 13th to 14th September, 2012.
17. Paper presented entitled “Encouraging Growth, Compromising Sustainability: Glimpses of Some Development Activities in Barind Region” in the UGC Sponsored seminar on “North Bengal: Issues in Social Development”, Organised by Deptt. of Sociology, NBU on 25th March, 2014.
18. Paper presented (jointly) entitled “Urban Growth without Urbanism: Perspectives on the Urbanization in India with special emphasis on West Bengal” in the UGC Sponsored national seminar on “Population, Urbanization and State of Environment”, Organised by Birpara College, Birpara, Jalpaiguri, from 11th and 12th September, 2014.
19. Paper presented entitled “Barrier to Spread of Education and Flow of Information in Geographically Smooth Land: A Case Study of Selected Bangladeshi Exclaves in Cooch” in the UGC Sponsored seminar on “Geopolitics in the Eastern Frontier of India with Special Reference to Indo-Bangla Border”, Organised by Deptt. of Geography, Malda College, Malda on 13th February , 2015.
20. Paper presented entitled “Knowledge and Skill as the New Ingredient of Production in the Present Century” in the workshop on “Distance Learning: Prospects and Challenges”, Organised by Deptt. of Women’s College, Malda in collaboration with DODL,University of Kalyani, Kalyani on 27th September, 2015.
21. Paper presented entitled “Loss of Biodiversity in the Wetland of MaldaDisitrict: Nature, extent and Reasons” in the UGC Sponsored seminar on “Biodiversity-Prospects and Threats: Present Scenario”, Organised by Deptt. of Botany and Zoology, TufanganjMahavidyalay, Cooch Behar on 26th -27th February, 2016.
22. A joint paper presented as second author entitled “Assessment of Vulnerability to Flood for Murshidabad District with Special Reference to Kandi Block: A Re-examination of Approach”in the 29th IGI National Conference on “Geomorphology and Natural Hazards” organized by Institute of Indian Geomorphologists, Deptt. of Geography, University of Calcutta during 24th-27th November, 2016.

### Paper presented as a key speaker entitled “Survival Strategies and Plight of ‘Neo-refugees’ in the PPP Islands: Nature, Extent and Reasons” in the West Bengal Government Sponsored seminar on “Livelihood Challenges and Spatial Transformation in India”, Organised by Deptt. of Geography, Raiganj University, Raiganj on 24th-25th March, 2017

### A joint paper presented as second author entitled “Regional Pattern of Women’s Empowerment in West Bengal - A Reflection through Educational Attainment and Political Participation*”* in the West Bengal Government Sponsored seminar on “Livelihood Challenges and Spatial Transformation in India”, Organised by Deptt. of Geography, Raiganj University, Raiganj on 24th -25th March, 2017

### A joint paper presented as second author entitled “Bank Erosion and Its Impact on Women’s Empowerment and Child Health – A Study of Vulnerability of PPP Islanders*”* in the West Bengal Government Sponsored seminar on “Livelihood Challenges and Spatial Transformation in India”, Organised by Deptt. of Geography, Raiganj University, Raiganj on 24th -25th March, 2017.

1. A joint paper presented as second author entitled “Food, Nutrition and Health Security in Indo-Bangladesh Frontier: A Study of Selected Villages of Kuchlibari Gram Panchayat, Koch Bihar, West Bengal” in the West Bengal Government Sponsored seminar on “Livelihood Challenges and Spatial Transformation in India”, Organised by Deptt. of Geography, Raiganj University, Raiganj on 24th -25th March, 2017.
2. Paper presented entitled “Physio-Political Dimensions of Identity Crisis: A Comparative Study of Survival strategies of Inhabitants of Enclaves and River Islands” in the UGC DRS Phase II (SAP-I) Programme Sponsored seminar on “Changing Physio-Cultural Landscape: Threats and Opportunities”, Organised by Deptt. of Geography, Calcutta University, during on 29th-30th March, 2017.

**International Level:**

1. Paper entitled “Desertification in Barind: An Unappreciated Calamity” presented in the UGC sponsored seminar on “Globalization, Technology and Economic Transformation” organized by Deptt. Of Geography and Economic Planning, Barkatullah University, Bhopal during 7th to 9th March, 2008.
2. Paper presented entitled “Population Growth, Development and Man-animal Conflict: A Study of Jalpaiguri District” presented in the UGC sponsored International Conference on “Resource development, environmental changes: emerging issues and challenges” organized by Deptt. Of Geography, AMU, Aligarh during 27th to 29th January, 2009.
3. Paper presented entitled “Effect of Age at Marriage on Fertility: A Cross Religion Analysis” presented in the UGC-DRS-II sponsored International Conference on “Population Dynamism and Sustainable Resource development” organized by Deptt. Of Geography, AMU, Aligarh during 25th to 27th January, 2012.
4. Paper presented entitled “Age at Marriage and Fertility: A Cross Religion Analysis for the District of Darjeeling” presented in the 3rd International Conference on “Man is Part of Nature: Heuristics and Political Ecology” organized by ISPER, Panchkula during 16th to 18thNovember, 2012.
5. Paper presented entitled jointly on “Dimensions of Choice Based Credit System (CBCS) with Special Reference to LIS Education in India” presented in the KuLine Conference on “Libraries in Next Era” organised by the DLIS, Kalyani University, Kalyani , Nadia during 16-17 , December, 2016.
6. Paper presented entitled jointly on “An appraisal of rural settlements on river islands and its impact on elementary education under Malda district of West Bengal” presented in 48th Regional Science Conference and International Conference on “Rural Habitat, Institutions and Development: Changing Nature and Challenges” organisedbythe Department of Geography, Tripura University, Agartala during 5-7th January, 2017.
7. Paper presented entitled jointly on “Role of Panchayati Raj Institution in Implementation of NSAP in Murshidabad” presented in 48th Regional Science Conference and International Conference on “Rural Habitat, Institutions and Development: Changing Nature and Challenges” organised by the Department of Geography, Tripura University, Agartala during 5-7th January, 2017.
8. Paper presented entitled jointly with NitiMollahon “Ethics in Academics with Special Reference to Plagiarism in Research and Publication” presented in International Seminar on “MORAL VALUES AND ETHICS IN SOCIAL LIFE” organised by Kaliachak College, Kaliachak, Malda during 11-12th December, 2017.
9. Paper presented entitled jointly with Rubia Biswas on “Issue of Ethics in Dealing Erosion and Flood Victims in Malda District” presented in International Seminar on “MORAL VALUES AND ETHICS IN SOCIAL LIFE” organised by Kaliachak College, Kaliachak, Malda during 11-12th December, 2017.
10. Paper presented entitled jointly with Rentu Biswas on “Question of Ethics in Implementation of Development Schemes with Special Reference to PMGSY” presented in International Seminar on “MORAL VALUES AND ETHICS IN SOCIAL LIFE” organised by Kaliachak College, Kaliachak, Malda during 11-12th December, 2017.
11. Paper presented entitled jointly with Aratrika Mukherjee on “Estimation of selected components of congestion cost along selected stretch of road in Kolkata Municipal Corporation” presented in 12th Regional Science Association International (RSAI) World Congress on “Spatial System: Social Integration, Regional Development and Sustainability” organised by Regional Science Association of India during May 29 - June 01, 2018 at BITS, Goa.
12. Paper presented entitled jointly with Rentu Biswas on “Role of PMGSY to Connect Rural Bharat to Urban India: A Evaluative Study of Murshidabad District, West Bengal” presented in 12th Regional Science Association International (RSAI) World Congress on “Spatial System: Social Integration, Regional Development and Sustainability” organised by Regional Science Association of India during May 29 - June 01, 2018 at BITS, Goa.
13. Paper presented entitled jointly with Amjed Mondal on “Regional and Communal pattern of child nutrition and influencing factors: a case study of North 24 Parganas, West Bengal” presented in 12th Regional Science Association International (RSAI) World Congress on “Spatial System: Social Integration, Regional Development and Sustainability” organised by Regional Science Association of India during May 29 - June 01, 2018 at BITS, Goa.

**Chairing Technical Session in a Seminar/Symposium/Workshop:**

1. Chaired a seminar on “Conservation of resources for sustainable development” organized by Deptt. Of Geography, Malda Women’s College, Malda (WB) on?
2. Chaired entire workshop “Framing New Syllabus for UG courses under University of GourBanga” organized by Deptt. Of Geography, Malda Women’s College, Malda (WB) in collaboration with the Deptt. Of Geography, Malda College, Malda on 13-14 January, 2011.
3. Chaired Technical Session-III in seminar on “Population, Urbanization and State of Environment”, a UGC Sponsored national seminar organized by the Deptt. of Geography, Birpara College, Jalpaiguri during 11th and 12th September, 2014.
4. Chaired Technical Session-VI in seminar on “Population, Environment and Development: Issues and Challenges”, a national seminar organized by the Deptt. of Geography, Samsi College, Samsi, Malda, 14thSeptember, 2014.
5. Chaired Technical Session-IV in seminar on “Changing Scenario of Society and Culture in the Context of Globalization”, a UGC Sponsored national seminar organized by the Deptt. of Geography, Birpara College, Jalpaiguri during 27th and 28th August, 2015.
6. Chaired Technical Session-IV in seminar on “Biodiversity-Prospects and Threats: Present Scenario”, a UGC Sponsored national seminar organized by the Deptt. of Zoology and Botany, Tufanganj College, Tufanganj, Cooch Behar, during 26th-27th February, 2016.
7. Chaired Technical Session-VI in seminar on “Biodiversity-Prospects and Threats: Present Scenario”, a UGC Sponsored national seminar organized by the Deptt. of Zoology and Botany, Tufanganj College, Tufanganj, Cooch Behar, during 26th-27th February, 2016.
8. Chaired Technical Session-II in national seminar on “Child Marriage and Its Impact in the Society”, a UGC Sponsored national seminar organized by the Deptt. ofPolitical Science, Malda College, Malda during 11th-12th February, 2016.
9. Co-chaired the Technical Session-I (I B Chatterjee Hall) in the 29th IGI National Conference on “Geomorphology and Natural Hazards” organized by Institute of Indian Geomorphologists, Deptt. Of Geography, University of Calcutta during 24th-27th November, 2016.
10. Co-chaired the Prof. ArabindaBasu Memorial Lecture (Technical Session-IV in the Seminar Hall) in the National Seminar on “Geography: A Science of Man and Environment” organized by the Foundation of Practising Geographers, Anthropological Survey of India, Salt Lake, Kolkata during 24th-25th February, 2017.
11. Co-chaired the Technical Session-V (Research Scholar Enclave) in the National Seminar on “Geography: A Science of Man and Environment” organized by the Foundation of Practicing Geographers, Anthropological Survey of India, Salt Lake, Kolkata during 24-25th February, 2017.
12. Co-chaired the Technical Session-V (Research Scholar Enclave) in the National Seminar on “Geography: A Science of Man and Environment” organized by the Foundation of Practicing Geographers, Anthropological Survey of India, Salt Lake, Kolkata during 24-25th February, 2017.
13. Chaired the Technical Session-II(Livelihood Challenges, Migration and Urbanization) in the National Seminar on “Livelihood Challenges and Spatial Transformation in India” Organised by Deptt. of Geography, Raiganj University, Raiganj on 24th -25th March, 2017.
14. Chaired Technical Session-I on “Urban Growth, Urbanization and Environmental Problems and Man-Environment Conflict” in national seminar on “Environmental Change, Human Adaptation and Sustainability” organised by Deptt. Of Geography, PMRS Mahavidyalaya, Jamboni, Bankura on 24/02/2018.
15. Chaired a session (Technical Session-Von “The World of disaster Management and Environmental Sustainability” in the Fermion Hall) in the National Seminar on “The World of Geography” organized by the Foundation of PractisingGeographers at S N Bose Centre for Natural Sciences, Salt Lake, Kolkata during 23th-24th March, 2018.

**Attended seminar/workshop/conference without paper:**

1. Attended UGC sponsored national seminar on “Financial Reporting Analysis and Governance of Entities” organized by D N College, Aurangabad, Dist.Murshidabadon 29th March, 2003.
2. Attended state level seminar on “Social Inequality and Caste System in India” organized by South Malda College, Maldaon 9th August, 2004.
3. Attended UGC sponsored national seminar on “Remote Sensing and GIS” organized by Malda Women’s College, Malda during14th -15th, February, 2006.
4. Attended UGC sponsored seminar-cum workshop on “Laboratory Counseling- cum-Evaluation Session on” organized by NSOU, Kolkata on 14th September, 2006.
5. Attended UGC sponsored on “Application of Remote Sensing and GIS in Resource Management” organized by Deptt. of Geography and Applied Geography, NBU during 28th - 30th January, 2008.
6. Attended UGC sponsored National on “Qualitative Research Methods” organized by CHS, NBU during 15th –16th January, 2009.
7. Attended UGC sponsored on “Access to e-Resources under UGC-INFONET Digital Library Consortium” organized by Deptt. Of Library and Information Sciences, NBU during 25th March, 2009.
8. Attended National seminar on “Literature in Translation: India and Abroad”, organized byDeptt. of Bengali, GBU, Malda during 2nd -3rd March, 2010.
9. Attended UGC sponsored on “Geo-Hazards in the Himalayan North Bengal” organized by Deptt. of Geography and Applied Geography, NBU during 6th -7th “March, 2010.
10. Attended College level seminar on “National Movements and Our Scientist 1876-1947” organized by P. G. Department of History, Malda College, Malda on 16th Dec. 2010.
11. Attended UGC sponsored workshop on “Formulation of New Syllabus for Geography (UG Level) Under University of GourBanga” organized by Malda Women’s College, during 13th-14th January, 2011.
12. Attended College level seminar on “A Tribute to AcharyaPrafulla Chandra Ray: Life and Works” organized by the Departments of Physics and Chemistry, Malda College, Malda on 2nd March 2011.
13. Attended College level seminar on “Promotion of Research in the Institute of Higher Learning ” organized by the Research and Consultancy Committee, Malda College, Malda on 15th November, 2013.

**Seminar/Workshop/Conference/Symposium etc**.**Organised**

1. Organized UGC sponsored national seminar on “Conservation and Management of Natural Resources to Check Environmental Degradation’ from 11th to 12th January, 2003, delegates participated 73.
2. Organized workshop on “Exploring and Measuring the Earth’s Surface” on 25/05/2005, number of participants 46.
3. Organized workshop on “Value Education and art of Living” on 31/01/13, number of participants 63.
4. Organized workshop on “Techniques of Determination of age of Fossils and Rocks” on 17/12/2013, number of participants 67.
5. Organized seminar on “Socio-Spatial Exclusion in India” on 21/12/2013, number of participants 94.
6. Organized Professor S P Chatterjee Memorial Lecture on “Geography of Inequality: Indian Panorama in the Context of Globalization”, on 29/11/2014, number of participants 110.
7. Organized workshop on “Application of GIS in Spatial Analysis” on 30/12/2014, number of participants 28.
8. Organized state level seminar on “Geopolitics in the Eastern Frontier of India with Special Reference to Indo-Bangla Border” on 13/02/2015, number of participants 121.
9. Organized workshop on “Under Graduate Studies in General Courses” on 08/08/2015, number of participants 78.
10. Organized workshop on “Quality Upliftment on Higher Education: Measures to be Taken by the Faculties” on 01/12/2015, number of participants 50.
11. Organized state level workshop on “Quality Enhancement in College Administration and Academics” on 18/09/2015, number of participants 93.
12. Organized workshop on “Multivariate Aspects of Studying Chemistry” on 15/11/2015, number of participants 71.
13. Organized workshop on “Quality Enhancement in Departmental Activities” on 11/12/2015, number of participants 94.
14. Organized workshop on “Open Source Software and Open Access Resources” on 23/12/2015, number of participants 55.
15. Organized seminar on “Tolerance in Indian Society: Contemporary Issues and Challenges” on 08/01/2016, number of participants 53.
16. Organized seminar talk on “Remote Sensing and GIS: A New Avenue for Geographers” on 26/10/2016 with Prof. BasudebBhatta, JU as speaker. Number of participants 211.
17. Organized seminar on “Significance of Quantification in Geography, Census Data: Social Reality and Beyond and Development and Displacement: Causes and Consequences” on 14/11/2016 with speaker Prof. AslamMahmood, CSRD, JNU. Number of participants 185.
18. Organized seminar on “Development and Displacement: Causes and Consequences” on 14/11/2016 with speaker Prof. SushilDalal, Pt. N. R. S. Government College, Rohtak. Number of participants 185.
19. Organized seminar on “Climate Change: Evidences from Bangladesh” on 08/11/2016, with speaker Prof. (Dr.) J A M Shoquilur Rahman, University of Rajshahi, Bangladesh. Number of participants. Number of participants 174.
20. Organized seminar on “Population studies and Research: Prospects and Challenges” on 08/11/2016, with speaker Prof. (Dr.)S U V Somyajulu, CEO, Sigma Research and Consultancy (President Indian Association for the Study of Population (IASP)). Number of participants. Number of participants 174.
21. Organized seminar on “Climate Change: Evidences from Bangladesh” on 08/11/2016, with speaker Prof. (Dr.) J A M Shoquilur Rahman, University of Rajshahi, Bangladesh. Number of participants. Number of participants 174.
22. Organized seminar on “Improving Quality of Research with Special Emphasis on Writing Thesis and Dissertation” on 14/11/2016 with speaker Prof. Noor Mohammad, Delhi School of Economics, DU. Number of participants 130.

**Invited lectures delivered:**

* 1. Delivered special lecture on “Effect of Meteorological Hazards on Agriculture” in the training course for the KrishiSahayaks organized by Agricultural Training College, Malda (WB).
	2. Delivered an invited lecture on “Framing New Syllabus for UG courses under University of GourBanga”,in a UGC sponsored workshop for revision of Existing Syllabus of UG Level in Geography, Deptt. Of Geography, Malda Women’s College, Malda (WB) in collaboration with the Deptt. Of Geography, Malda College, Malda, University Level (Malda-Uttar Dinajpur-DakshinDinajpur), 13-14 January, 2011.
	3. Delivered an invited lecture on “Effect of Climate Change on Agriculture with Special Reference to Indian Agriculture”, UGC Sponsored National Level Workshop, Moran College, Moran, Assam, 6th-7th February, 2012.
	4. Delivered an invited lecture on “Attrition of Identity as a Mode of Survival: Tale of Bangladeshi Exclave Dwellers in Cooch Behar” in a UGC sponsored National Seminar on “Population, Environment and Development: Issues and Challenges”, Department of Geography, Samsi College, Samsi, Malda, 14th February, 2015
	5. Delivered an invited lecture on “Farmer’s Suicide: Nature, Extent and Reasons” in a UGC sponsored National Seminar on “Changing Scenario on of Society and Culture in the Context of Globalization”, Deptt. Of Sociology, Birpara College, Jalpaiguri, 27th and 28th August, 2015.
	6. Delivered an invited lecture on “Agrarian Crisis and Farmers’ Suicide: Nature, Extent and Causes and Consequences” in a UGC sponsored National Seminar on “Financial Inclusion: Prospects and Challenges” Organised by the Deptt. Of Commerce, Malda College, Malda, 12th and 13th September, 2015.
	7. Delivered an invited lecture on “Transparency, Democracy and Inclusiveness in Approach in College Administration” in a seminar on “Enhancement of Quality of College Administration and Academics” organized by Malda Women’s College, Malda in collaboration with DODL, University of Kalyani, Kalyani on 27th September, 2015.
	8. Delivered an invited lecture on “Early Marriage of Girls in India: A Regional Perspective” in a seminar on“Child Marriage and Its Impact in the Society”, a UGC Sponsored national seminar organized by the Deptt. of Political Science, Malda College, Malda during 11th-12th February, 2016.
	9. Delivered an invited lecture on “Survival Strategies and Plight of ‘Neo-refugees’ in the PPP Islands: Nature, Extent and Reasons” in the West Bengal Government Sponsored seminar on “Livelihood Challenges and Spatial Transformation in India”, Organised by Deptt. of Geography, RaiganjUniversity, Raiganj on 24th-25th March, 2017.
	10. Delivered an invited lecture on “Urban Growth, Urbanization and Environmental Problems in India with Special Reference to Kolkata” in national seminar on “Environmental Change, Human Adaptation and Sustainability” organised by Deptt. Of Geography, PMRS Mahavidyalaya, Jamboni, Bankura on 24/02/2018.

**Publications (India):**

1. **Article/Research Paper**
2. Anwaruzzaman, A. K. M. (2009): “In-migration in Jalpaiguri district: nature, trend and consequences” The Geographical Review of India, Geographical Society of India (CU), Kolkata, Vol. 71, No. 2, pp.91-95. (Single Author) **ISSN 0375-6386.**
3. Anwaruzzaman, A. K. M. and Khatoon, N. (2010): “Desertification in Barind: An Unrecognized Calamity” The Geographer, The Geographical Society (AMU), Aligarh, Vol. 56, No. 2, pp. 121-134. (First Author) **ISSN 0072-9090 (print), ISSN: 0975-9522.**
4. Anwaruzzaman, A. K. M. (2009): “Indo-Bangla Enclaves: A Chronological and Chorological Study” Punjab Geographer, Association of Punjab Geographers, Patiala, Vol. 5, pp.6-19. (Single Author) **ISSN 0973-3485.**
5. Anwaruzzaman, A. K. M. (2010): “Regional pattern of fertility in West Bengal with special reference to religious differentials”, Indian Journal of Regional Science, ARSI, Kolkata, Vol. 42, pp.116-126. (Single Author) **ISSN 0046-9017.**
6. Anwaruzzaman, A. K. M. (2009): “Gorgon Cultivation in the Wetlands in Malda District – Economy and Effect”, Hill Geographer, NEHU, Shillong, Vol. XXV, No. 1 & 2, pp.61-69. (Single Author)**ISSN 0970-5023.**
7. Anwaruzzaman, A. K. M. (2008): “Stateless in their own land: a study of sub-human life of residents of KishmatBatrigachh”, National Geographer, The Allahabad Geo. Society, Allahabad, Vol. 44, No. 1 & 2, pp. 97-109 (Single Author)**ISBN 0470-0929.**
8. Anwaruzzaman, A. K. M. (2010): “In-migration in the foothills of Jalpaiguri: a serious threat to economy, ecology and security”, The Himalayan Miscellany, Centre for Himalayan Studies, NBU, Vol. 19, pp. 49-65. (Single Author) **ISSN 0970-492.**
9. Anwaruzzaman, A. K. M. and Sahu, R. (2010): “Analysis of Income as Economic Determinant of Fertility: A Cross Religion Study of Darjeeling District”, The Himalayan Miscellany, Centre for Himalayan Studies, NBU, Vol. 19, pp. 31-48. (Second author) **ISSN 0970-492.**
10. Anwaruzzaman, A. K. M. (2010) “Differentials in Fertility by Religion in Darjeeling District, India”, Population Geography, Association of Population Geographers of India, PU, Chandigarh, Vol. 32, 2010, pp. 15-36. (Single Author)**ISSN 0256-5331.**
11. Anwaruzzaman, A. K. M., MollahNiti and Kundu, ShyamSundar (2010) “College Libraries in Murshidabad District: Growth and Development and Users’ Perception”, Golden Research Thoughts, Vol. II, Issue No. II, pp. 106-114.(Second Author) **ISSN 2231-5063.**
12. Anwaruzzaman, A. K. M. and JahanaraKhatoon(2012) “Gorgon Cultivation: a Serious threat to wetland bio-diversity”, Golden Research Thoughts, Vol. II, Issue No. III (September, 2012), pp. 1-9 (Second Author)**ISSN 2231-5063.**
13. Anwaruzzaman, A. K. M. and NoorjahanKhatoon(2012) “Backwardness of Piarpur River Islanders: A Geographical Analysis”, Research Expo International Multi-Disciplinary Journal, Vol. II, No. II (August), pp. 58-69. (First Author) **ISSN 2250-1630.**
14. Anwaruzzaman, A. K. M. and NoorjahanKhatoon (2012) “Educational Attainment as Determinant of Fertility: a comparative study of two Minority Groups in Rural Darjeeling”, IJSS, Vol. 3, No. 2 (August), pp. 11-17. (Second Author) **ISSN 2249-3921 (Print)** and **ISSN 2249-4316 (Online).**
15. Anwaruzzaman, A. K. M. and Sahu R. (2012): “Differentials in Fertility by Religion: A Case Study of Darjeeling District” (Abstract of Doctoral Thesis) Punjab Geographer, Association of Punjab Geographers, Patiala, Vol. 8, pp. 130-133, (First Author) **ISSN 0973-3485.**
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17. Anwaruzzaman, A. K. M. (2013): “Statelessness and Sub human life in Indo-Bangla enclaves”, Research Expo International Multi-Disciplinary Journal, Vol. III No. I, pp. 1-9, **ISSN 2250-1630**.
18. Anwaruzzaman, A. K. M. and Mollah, Niti (2014): “Gender Gap in Literacy in Urban West Bengal: A Regional Analysis”, Indian Journal of Multi-Disciplinary Research Journal, Vol. I, No. I, pp. 38-44, **ISSN: 2347-9884**.
19. Anwaruzzaman, A. K. M. and Mollah, N. (2014): “The Country-Town Symbiosis and Problem of Delineation of City Region of English Bazar (WB)”, Indian Journal of Multi-Disciplinary Research Journal, Vol. I, No. II, pp. 33-46, **ISSN: 2347-9884**.
20. Anwaruzzaman, A K M &Mollah, N. (2018): “What Ails Indian Higher Education?”Research Expo International Multi-Disciplinary Journal, Vol. 8, No. 1 (January), pp. 82-96. (First Author) **ISSN 2250-1630.**
21. Anwaruzzaman, A. K. M. and Mollah, N. (2014): “State of Higher Education in Malda District and Road Map for Development”, Indian Journal of Multi-Disciplinary Research Journal, Vol. 5, No. 1, pp. ??, ISSN: 2347-9884. (accepted)
22. Anwaruzzaman, A. K. M. & Rentu, Biswas (2018 communicated): “Demographic Divide in a Riverine Region: An Impact Assessment of Physico-Political Process” The Geographical Review of India, Geographical Society of India (CU), Kolkata, Vol.??, No. ??, (First Author) pp ISSN: 0375-6386.
23. Hoque, Samsul, Anwaruzzaman, A. K. M., & Kasemi, N Z (2018): “Chronological and Chorological Dimensions of Literacy in Malda District with Special Reference to Gender Gap” Konkan Geographer, Vol. 19 (June/July), ISSN: 2277-4858. Accepted.
24. Anwaruzzaman, A. K. M. & Rentu Biswas (2018 communicated): Connecting “Rural Bharat’ to ‘Urban India’ Through PMGSY: An Evaluative Study of Murshidabad District” Punjab Geographer, Association of Punjab Geographers, Patiala, Vol.?? pp.??. (Second Author) ISSN: 0973-3485.
25. Anwaruzzaman, A. K. M. & Biswas, Rentu (2018 communicated): “Impact of PMGSY on Socio-Economic Development: A Case Study of Chandpur- Kushabaria Road, Murshidabad District, West Bengal” Konkan Geographer, Vol. 19 (June/July), ISSN: 2277-4858.
26. **Publications (Abroad):**
27. Anwaruzzaman, A. K. M. (2010): “Hindu-Muslim Differentials in Fertility in India with Special Reference to Darjeeling District, West Bengal”, Pakistan Journal of Geography, Peshawar University, Peshawar, Pakistan, XIX, No. 1 & 2, pp. 75-98. (Single Author) **ISSN 1023-5108.**
28. Anwaruzzaman, A. K. M. and Sahu R. (2011): “Differentials in Fertility by Religion with special emphasis on Hindu-Muslim Fertility Differential in Darjeeling District”, Asian Profile, Asian Research Service, Canada, Vol. 39, No.2, pp. 137-150. (First Author) **ISSBN 03048675.**
29. **i) Books**
	1. Anwaruzzaman, A. K. M. (2018), “Fertility Differentials and Religious Groups: A Demographic Study of Darjeeling District, West Bengal” R K Books, Daryaganj, New Delhi , Reference book (Sole author), ISBN: 978-93-82847-93-9

**ii) Chapter in a Book:**

1. Anwaruzzaman, A. K. M. (2013), Chapter entitled “Age at Marriage and Fertility: A Cross Religion Analysis for the District of Darjeeling” in a book entitled **“Readings in Population, Environment and Spatial Planning”**, eds. Sharma, K.D. at al., (2013) ISPER, Panchkula (Haryana), pp. 103-114. **ISBN: 978-81-927014-0-0**.
2. Anwaruzzaman, A. K. M. and Mollah, Niti (2014): Chapter entitled “Urban Growth without Urbanism: Perspectives on the Urbanization in India with special emphasis on West Bengal”, in a book entitled *“****Population, Urbanization and State of Environment”*,** eds. Dr. N Kasemi and Dr. Tarun Das (2014) published by Birpara College, Jalpaiguri, **ISBN: 978-93-84671-04-4**.
3. Anwaruzzaman, A. K. M. (2014): Chapter entitled “Impact of Climate Change on Agriculture with Special Reference to Indian Agriculture”, in a book entitled **“Climate Change: Dimension and Direction”**, ed. Dr. MouchumiGogoi (2014) published by Touch the Earth, Moran, Assam, **ISBN: 978-93-5126-569-6**.
4. Anwaruzzaman, A. K. M. (2015): Chapter entitled “Effect of Age at Marriage on Fertility: A Cross Religion Analysis”, in a book entitled **“Population Dynamism and Resource Utilization”,** Volume 1 (Population Composition and Development), ed. Dr. Farasat Ali Siddiqi (2015) published by Academic Publication, New Delhi, **ISBN: 978-93-83931-18-7**.
5. Anwaruzzaman, A. K. M. (2015): Chapter entitled “Financial Exclusion: A Politico-Geographical Process Too”, in a book entitled “**Financial Inclusion in India: Challenges and Prospects** ed. DrManas Kumar Baidya (2015) published by Kabita,Rangamati, Medinipur,**ISBN:978-93-85248-85-6**.
6. Anwaruzzaman, A. K. M. and Khan,Soleman (2017): A chapter entitled “Early Marriage of Girls in India: A Regional Perspective” in a book entitled“**Child Marriage: The Root of Social Maladies**” edited by GandhariSaha, Levant Books, Kolkata, pp. 85-97. ISBN: 978-93-84106-12-6.
7. Khan, Soleman and Anwaruzzaman, A. K. M. (2017): A chapter entitled “Child Marriage in West Bengal: Nature, Extent, Causes and Regional Dimensions” in a book entitled “**Child Marriage: The Root of Social Maladies**” edited by GandhariSaha, Levant Books, Kolkata. pp. 20-34. ISBN: 978-93-84106-12-6.
8. Anwaruzzaman, A. K. M. & Mukherjee, Aratrika (2018): A chapter entitled "Population Change in Statutory Towns in the Kolkata Metropolitan Area during 2001-2011: Nature, Causes, Consequences and Future Trend” in an edited book entitled “Massive Urbanization; Town Planning, Pedagogy and Research”, edited by H S Mangat&Surjit Singh, IEPER, Panchkula, pp.133-140 ISBN: 978-81- 927014-0-4.
9. Anwaruzzaman, A. K. M. and Mollah, Nit (in the press): A chapter entitled “Ailing Indian higher education, heading towards being entangled” in a book entitled“Higher Education and Ethics” edited by GandhariSaha, Levant Books, Kolkata, pp. ??. ISBN: ??. (First author).
10. Anwaruzzaman, A. K. M. & Mollah, Niti (in the press): A chapter entitled “Ethics in Academic Sphere from the Perspective of Plagiarism in Research and Publication” in a book entitled “Higher Education and Ethics” edited by GandhariSaha, Levant Books, Kolkata. pp. ??. ISBN: ??.(Second author).

**Publication in Seminar/Conference Proceedings:**

1. Anwaruzzaman, A. K. M. (2001): Article entitled “Violation of Human Rights in the Form of Child Labour”, in the seminar proceedings of the National Seminar organized by A. C. College of Commerce, Jalpaiguri entitled “?????????” eds. Dr ????????? , pp.?????
2. Anwaruzzaman, A. K. M. (2001): Article entitled “Wetlands in Danger: Case of Wetland in Malda District”, in the Proceedings of the National Seminar organized by Malda Women’s College, Malda entitled “Standard of Living; Social Disruption and Environmental Degradation” eds. Dr. Krishna Guha , pp.56-63.
3. Anwaruzzaman, A. K. M. (2003): Proceedings entitled “Management of Natural Resources to Check Environmental Degradation” of the National Seminar organized by Malda College, Malda edited by Dr A K M Anwaruzzaman, pp. 1-152.
4. Anwaruzzaman, A. K. M. (2016): Article entitled “Loss of Biodiversity in the Wetland of Malda Disitrict: Nature, extent and Reasons”, in a book entitled “Biodiversity-Prospects and Threats: Present Scenario”eds. Dr R. P. Mukherjee and Dr. D. Banarjee (2016), pp. 17-25. ISBN: 978-93-5258-521-2.

**Refresher and Orientation Courses Attended**:

1. Orientation Course of four weeks conducted by Academic Staff College during 21st January to 16th February, 2001 at the University of Rani Durgavati, Jabbalpur, Madhya Paradesh.
2. Refresher Course of three weeks conducted by Academic Staff College/RCC during 14th November 4th February, 2000 at the University ofBurdwan University, Burdwan.
3. Refresher Course of three weeks conducted by the Academic Staff College/RCC during 6th July to 27th July, 2006 at the University of Kerala, Thiruvananthapuram, Kerala.
4. Refresher Course of three weeks conducted by Academic Staff College/RCC during 20th November to 9th December 2006, Kashmir University, Srinagar (J&K).
5. Refresher Course of three weeks conducted by Academic Staff College, University of North Bengal (WB) during 9th August to 29th August 2011.

**Member of U. G./P. G. Board of Studies in Geography:**

1. Member, UG & PG Board of studies, Department of Geography, Aliah University, Kolkata since 13/11/2017.
2. Member, UG & PG Board of studies, Department of Bengali, Aliah University, Kolkata since 06/11/2016.
3. Member, UG & PG Board of studies, Department of Economics, Aliah University, Kolkata since 01/12/2016.
4. Member of board of Studies in Geography, 2002-03 to 2080-09, University of North Bengal.
5. Member of UG board of Studies in Geography, since 2007-2008 onwards till December 2012, University of Gour Banga, Malda.

**Member of Research Board of Studies in Geography:**

1. Member of Research Board of Studies in Geography, Aliah University, Kolkata.
2. Member of Research Board of Studies in Geography, Raigunj University, Raigunj

**Membership of Professional Organizations**:

1. Life Member (No. LM-1443), Indian National Cartographic Association (INCA), SOI, Hyderabad.
2. Life Member (No. LM-1089), National Association of Geographers, India (NAGI), DSE, University of Delhi, Delhi.
3. Life Member (No. L/A-11), the Geographical Society of India, Deptt. Of Geography, CU, Kolkata.
4. Life Member, the Association of Punjab Geographers, Patiala, Punjab.
5. Life Member, the Allahabad Geographical Society, Allahabad.
6. Life Member (No. L-245), the Geographical Society of the North-Eastern Hill Region, Shillong.
7. Annual Member, Association of Regional Science, Kolkata (2010).
8. Annual Member, IGI, Kolkata (2010)

**Editorship**:

1. Edited the Abstract volume as well as Proceedings including full length papers presented in the seminar organized during 11th and 12th January, 2003 at Malda College, Malda.
2. Co-editor of Indian Journal of Multi-Disciplinary Research Journal, Malda College, Malda (WB), India, ISSN: 2347-9884.
3. Associate Editor, Practising Geographer, Foundation of Practicing Geographers,ISSN: 09753850.

**Acted as Reviewer of Journals:**

1. Punjab Geographer (on several occasions), APG, Patiala, Punjab (India), ISSN 0973-3485.
2. Global Advanced Research Journal of Library and Archival Studies for Article: GARJLIAS-12-013 entitled “How the Presence of a Technologically Supported Library Influences High School Students’ Reading Habits and Skills” [www.garj.org](http://www.garj.org).
3. Indian Journal of Multi-Disciplinary Research Journal, Malda College, Malda (WB), India, ISSN: 2347-9884.

**Academic Projects Completed:**

1. “Health, Housing and Sanitation Status of Kalwas Village, Hissar, Haryana” at M. A. Second Semester, JNU, New Delhi.
2. “J. N. U. Environment and Level of Consciousness of the Residents” M. A. at Third Semester, JNU, New Delhi.
3. “Geomorphologic Study of Lahaul to Assess the Prospects of Regional Development”, M. A. at Third Semester, JNU, New Delhi.
4. “Site Plan for Western Periphery of Ahmedabad”, at Second Trimester, Urban and Regional Planning, CEPT, Ahmedabad.
5. “Study of Sewerage and Storm Water Drainage to Assess Health Risks of Ahmedabad Municipal Corporation”, at 3rd Trimester, Urban and Regional Planning, CEPT, Ahmedabad.
6. “Tourism Development Plan for Eastern Gujarat”, at 4th Trimester, Urban and Regional Planning, CEPT, Ahmedabad.
7. “Problems of Industrial Child Labour in India: A Comparative Study of Working Children in Lock Factory and Glass Manufacturing Industry,” at the 5th Trimester, Urban and Regional Planning, CEPT, Ahmedabad.
8. “Problems of Industrial Child Labour: A Case Study of Working Children in Glass Manufacturing Industry,” at the 6th Trimester, Urban and Regional Planning, CEPT, Ahmedabad.

 **Courses Designed for UG Programme of University of North Bengalw.e.f. Academic Session 2003-04**

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| **UG Programme (Hons)** |
| SL. No. | Paper | Title of the course | Weightage (Marks) | Theory/ Practical/ Field Study |
| 1 | Paper-I | Physical Geography | 50 | Theory |
| 2 | Paper-II | Physical Geography and Geomorphology | 50 | Theory |
| 3 | Paper-III | Geography of Resources | 50 | Theory |
| 4 | Paper-IV | Practical-I (Scale, Toposheet, Map Proj, Minor Instr) | 50 | Practical |
| 5 | Paper-V | Geography of Economic Activity | 50 | Theory |
| 6 | Paper-VI | Population Geography | 50 | Theory |
| 7 | Paper-VII | Settlement and Political Geography | 50 | Theory |
| 8 | Paper-VIII | Practical-II (Rocks & Minerals, Surveying, Geological Map, Area Measurement) | 50 | Practical |
| 9 | Paper-IX | Climatology | 50 | Theory |
| 10 | Paper-X | Pedology and Bio-geography | 50 | Theory |
| 11 | Paper-XI | Geography of India | 50 | Theory |
| 12 | Paper-XII | Nature and Methodology of Geography | 50 | Theory |
| 13 | Paper-XIII | Social and Cultural Geography | 50 | Theory |
| 14 | Paper-XIV | Optional (Agriculture, Population, Urban, Cartography) | 50 | Theory |
| 15 | Paper-XV | Practical-III (Stat, RS & GIS, Cartogram, Weather Map, Met Instruments) | 50 | Practical |
| 16 | Paper-XVI | Practical-IV (Field Survey) | 50 | Field study |

**Courses Designed for UG programme of University of Gour Banga w.e.f. Academic Session 2011-12**

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| UG Programme (Hons) |
| SL No | Paper | Title of the course | Weightage (Marks) | Theory / Practical |
| 1 | Paper-I | Physical Geography | 50 | Theory |
| 2 | Paper-II | Geomorphology | 50 | Theory |
| 3 | Paper-III | **Geography of Resources and Economic Activities** | 50 | Theory |
| 4 | Paper-IV | Practical-I (Scale, Toposheet, Weather Map, Rocks and Minerals) | 50 | Practical |
| 5 | Paper-V | Hydrology and Oceanography | 50 | Theory |
| 6 | Paper-VI | Population Geography and Political Geography | 50 | Theory |
| 7 | Paper-VII | Settlement and Regional Development | 50 | Theory |
| 8 | Paper-VIII | Practical-II (Area Enlargement and Reduction, Area Measurement, Quantitative Tech, surveying  | 50 | Practical |
| 9 | Paper-IX | Climatology | 50 | Theory |
| 10 | Paper-X | Soil and Bio-geography | 50 | Theory |
| 11 | Paper-XI | Geography of India | 50 | Theory |
| 12 | Paper-XII | Nature and Methodology of Geography | 50 | Theory |
| 13 | Paper-XIII | Social and Cultural Geography | 50 | Theory |
| 14 | Paper-XIV | Applied Geography | 50 | Practical |
| 15 | Paper-XV | Practical-III (Statistics, RS & GIS, Cartogram, Weather Map, Meteorological Instruments) | 50 | Practical |
| 16 | Paper-XVI | Practical-IV (Field Survey) | 50 | Field study |