

# SYLLABUS

## GEOGRAPHY

M.A. (Previous) Examination, 2020

M.A. (Final) Examination, 2021

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JAI NARAIN VYAS UNIVERSITY  
JODHPUR

# IMPORTANT

With a view to bring about greater reliability, validity and objectivity in the examination system and also for closer integration of teaching, learning and evaluation.

- (1) The syllabus has been divided into units. Questions will be set from each unit with provision for internal choice.
- (2) In order to ensure that the students do not leave out the important portion of the syllabus, examiners shall be free to repeat the questions set in the previous examinations.

(Ref. Resolution No. 21(c) of Academic Council dated 9-2-84)

The examinees be permitted to use their personal transistorized pocket battery operated calculators in the examinations. The Calculator to be used by the candidates in the examinations should not have more than 12 digits, 6 function and 2 memories and should be noiseless and cordless. A calculator belonging to one candidate shall not be allowed to be used by another candidate. The superintendent of the centre will have complete discretion to disallow the use of a calculator which does not confirm to the above specification.

(Ref. Res. No. 6/90 of Academic Council dated 20th July, 1990)

In Engineering and any other examinations where the use of calculators is already permitted; it shall remain undisturbed.

## NOTIFICATION

**In compliance of decision of the Hon'ble High Court all students are required to fulfil 75% attendance rule in each subject and there must be 75% attendance of the student before he/she could be permitted to appear in the examination.**

REGISTER  
(Academic)

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### **FACULTY OF ARTS, EDUCATION AND SOCIAL SCIENCES**

#### **Academic Members of the Geography Department**

##### **Head of the Department**

Dr. Jai Singh

##### **Professor**

Prof. Rajendra Parihar

Prof. Irfan Mehar

##### **Assistant Professor**

Dr. Arjun Lal Meena

Dr. Asha Rathore

Mr. Govind Singh

Dr. Lalit Singh Jhala

Dr. Omprakash

Dr. Gaurav Kumar Jain

Dr. Ashwani Arya

Dr. Anamika Poonia

## FACULTY OF ARTS, EDUCATION & SOCIAL SCIENCES

### MASTER OF ARTS

#### GENERAL INFORMATION FOR STUDENTS

The examination for the degree of Master of Arts, Education and Social Sciences shall consist of two parts : (i) The Previous Examination and (ii) The Final Examination

The examination will be through theory papers/practical/viva. Pass marks for the previous and final examination are 36% of the aggregate marks in all the theory papers and viva/practical's and not less than 25% marks in the individual theory paper /viva /practical. A candidate is required to pass in the written and the practical/viva examination separately.

Successful candidates will be placed in the following divisions on the basis of the total marks obtained in previous and final examinations taken together:

First division 60% , second division 48% and third division 36% no students will be permitted to register himself simultaneously for more than one post-graduate course.

#### ATTENDANCE

1. For all regular candidates in the faculties of arts, education and social sciences, science, law, commerce and engineering, the minimum attendance requirement shall be that a candidate should have attended at least 75% of the lecturers delivered and tutorials held taken together as well as 75% of practical and sectionals from the date of his/her admission.
2. Condonation of shortage of attendance:  
The shortage of attendance up to the limits specified below may be condoned on valid reasons:
  - i) Up to 6% each subject plus 5 attendance in all the aggregate subject/papers may be condoned by the Vice-Chancellor on the recommendation of the Dean/Director/principal for undergraduate students and on the recommendation of the Head of the Department for the post-graduate classes.
  - ii) The N.C.C./N.S.S. cadets sent out to parades and camps and such students who are deputed by the University to take part in games, athletic or cultural activities may, for purpose of attendance, be treated, as present for the days of their absence in connection with the aforesaid activities and that period shall be added to their subject wise attendance.

Note: 1. The attendance for supplementary will be counted from the date of their admission

2. In the Faculty of Engineering the attendance requirement will apply to each semester.  
However, in case of practical where examination is not held at the end of the first semester but the end of the second semester, attendance will be counted at the end of the second semester taking into account attendance put in both the semesters (i.e., first and second) taken together.

### *MEDIUM*

Candidates are not allowed to use any medium except Hindi or English for answering question papers.

For answering papers in the subjects of English/Hindi the medium will be corresponding language only.

For answering question papers in the subject of Sanskrit the candidates are allowed to use Sanskrit, Hindi or English unless specified otherwise.

## **GEOGRAPHY**

### **M.A. (Previous) Examination 2020**

M.A. (previous) examination will consist of 500 marks. There will be four theory papers of 100 marks each and a practical of 100 marks.

Candidates will be required to pass separately in theory and practical examinations.

Candidate's choice among the optional papers and groups would be restricted only to those paper or groups for which regular teaching is provided in the department.

Use of map stencils (political outline only). Log tables and calculators are allowed in the examination.

Paper I advanced physical geography  
Paper II economic geography  
Paper III evolution of geographical thought

**Available (IV-1 or 2) others are not available**

Paper IV

1. Geography of Arid Lands

Or

2. Advance and systematic and Regional Geography of U.S.A
3. Japan
4. Monsoon Asia (except India)
5. Western Europe
6. South-western Asia
7. Three southern Continents
8. Neighboring countries of India

Paper V Cartography and Project/ Instrumental Survey of A Reputed Institute/

Geographical

Tour

### **M.A. (Final) Examination 2021**

M.A.(Final) Examination, will consist of 500 marks, there will be four theory papers of 100 marks each or three theory paper of 100 marks each and a dissertation of 100 marks on an approved topic-evaluation of dissertation will be done by two external examiners and average

marks will be awarded. There will be no viva-voce examination. There will also be a practical examination of 100 marks.

Candidates will be required to pass separately in theory and practical examination.

Candidate's choice among the optional papers and groups would be restricted to the papers or groups for which regular-teaching is provided in the department.

Use of map, stencils (political outline only), log tables and calculators are allowed in the examination.

Paper	VI	Research methodology
Paper	VII	Geography of India
Paper	VIII	Geography of tourism

**These are not available**

1. Advanced Geomorphology
2. Bio-Geography
3. Applied Geography and Regional Planning
4. Pedology
5. Climatology and Meteorology
6. Quantitative Methods in Geography
7. Aerial Photo-Interpretation and Remote Sensing

**Available (IX-1 or 2) others are not available**

Paper- IX

1. Urban Geography  
or
2. Geography of Population
3. Geography of land use
4. Political Geography
5. Cultural Geography
6. Industrial Geography
7. Transportation Geography
8. Geography of Rural Development

Paper- X Cartography, Surveying (Practical) and Socio- Economic Survey of Village

**M.A. (Previous) Examination 2020**

Note: Each theory paper is divided in three parts i.e. Section-A, Section-B, and Section-C.

Section-A: Will consist of 08 compulsory questions. There will be two questions from each unit and answer of each question shall be limited up to 30 words. Each question will carry of 3 marks.

Section-B: Will consist of 08 questions. Each unit will be having two questions; students will answer one question from each unit. Answer of each question shall be limited up to 250 words. Each question will carry 9 marks.

Section-C: Will consist of total 04 questions. Students will answer any 03 question and answer of each question shall be limited up to 500 words. Each question will carry 20 marks.

**PAPER I**  
**ADVANCED PHYSICAL GEOGRAPHY**

- Unit 1 : Interior of the earth, Isostasy, distribution of continents and ocean basins; Continental drift; Revival of continental drift theory and plate tectonics, Earth movements, folding and faulting; mountain building, earthquakes
- Unit 2 : Work of sub-aerial denudation: Erosional and depositional work of rivers, winds, glaciers, marine erosion; Karst topography; Geomorphic cycle
- Unit 3 : Isolation, heat balance of the earth and distribution of temperature, distribution of atmospheric pressure and winds; Forces controlling the atmospheric circulation, Jet streams; characteristics, types and origin of air masses and fronts; Atmospheric disturbances, climatic classification-Koppen Thronthwaite and Trewartha; modified Koppen's classification
- Unit 4 : Oceanography : Ocean bottom relief, salinity, temperature and density of water masses, ocean currents, coral reefs, tides, ocean deposits.

**RECOMMENDED READINGS**

- Critchfield : General climatology
- Davis, WM, : Geographical Essays: 2<sup>nd</sup> ed.
- Jeffereys, H. : The earth
- Jenkins, J.T. : A Text-Book of Oceanography
- Miller, A.A. : Climatology
- Monkhouse, F.J. : The principal of Physical Geography
- Murray, J. : The ocean
- Patterson, S. : Introduction to meteorology
- Seeman, A. : Physical Geography
- Stress, J. : The Unstable Earth
- Strahler, A.N.: Modern Physical Geography
- Thornbury, W.D.: Principles of Geomorphology
- Worcester, P.G.: A text-book of Geomorphology
- Wooldrigan & Morgan: A text book of Geomorphology
- Kaushik, S.D. : Bhu-Akriti-Vigyan, Rustogi. & Co., Meerut, 1983
- Savindra Singh : Bhu-Akriti-Vigyan, Tara Publication, Varanasi, 1976
- Dayal, P. : Bhu- Akriti Vigyan, Shukla Book Depot, Patan, 1982



**PAPER II**  
**ECONOMIC GEOGRAPHY**

- Unit 1. : Economic geography: scope, content and recent trends; relation with allied social sciences; approaches and its study; decision making; natural resources classification and conservation
- Unit 2 : Agriculture: spatial distribution of major food and cash crops; world's major agricultural systems; Von Thunen's' theory of agricultural location; Whittlesey's agricultural regions; world food problem
- Industries: Iron and Steel, Cotton textile and Chemicals; Industrial regions, Lake regions (U.S.A.), Ruhr (West Germany) and manufacturing belts of Japan
- Unit 3 : Minerals: Iron-ore, Copper and Bauxite-distribution, production and supply problems
- Energy resources: Coal, Hydro-electricity, Petrol and Nuclear; Non-Conventional sources of energy; energy crisis
- Unit-4. : World trade: determinants, barriers, composition and changing trends; globalization
- Transport : Major oceanic and inland waterways; transportation costs and location of economic activities; role of market centers in trade development

**RECOMMENDED READINGS**

- Berry, J.B.L. Cooking, E.C. & Ray, D.M. : Economic Geography, Prentice Hall, 1987
- Alexander, J.W. and Gibson: Economic Geography, Prentice Hall of India, New Delhi, 1988
- Thoman & Corbin: The Geography of Economic Activity, McGraw Hill, N.Y.
- Lloyd Perter E. and Peter Dicken : Location in Space- A Theoretical Approach to Economic Geography, Harper and Row, London and N.Y.
- Janaki, V.A. : Economic Geography, Concept Publishing Co., New Delhi, 1985
- Robinson, H. : Economic Geography, Mac Donald and Evans, 1979
- Jarret, H.R. : A Geography of Manufacturing, MacDonald and Evans, 1977
- Singh, K.N. : Arthik Bhugol Ke Mool Tatva, 1993
- Boesch, H. : A Geography of World Economy, D. Van Nostrand Co., New York, 1964
- Chapman, J.D. : Geography and Energy, Longman, London, 1989
- Griggs, DB. : The Agricultural Systems of the World, Cambridge University Press, New York, 1974
- Hartshorne, T.N. and Alexander, J.W.: Economic Geography, Prentice Hall, New York, 1988
- Millar, E. : Geography of Manufacturing, Prentice Hall, New York, 1962
- Thomas, R.S. : The Geography of Economic Activities, McGraw Hill, New York, 1962

### PAPER III

#### EVOLUTION OF GEOGRAPHICAL THOUGHT

- Unit 1 : Geography in ancient period: Contribution of Greeks and Arab geographers;  
Dark age in Geography, Renaissance in Geography
- Unit 2 : Geography in pre-modern and modern classical period; Geography in the 18<sup>th</sup>  
and 19<sup>th</sup> centuries with special reference to the contribution of Kant,  
Humboldt, Ritter and Ratzel ; Recent trends in Geography
- Unit 3 : Schools of Geographic thought: German, French and Russian School of  
Geography; Dichotomies in Geography, Physical vs. Human, Regional vs.  
Systematic, Historical vs. Contemporary, Development of Geography in India
- Unit 4 : Concept of Areal Differentiation and landscape; Regional and Systematic  
methods, Environmental Determinism, Possibilism and Human ecology:  
General Ideas of Hypotheses, Theories in Geography

#### RECOMMENDED READINGS

- Ali, S.M.: Geograhy of Puranas
- Bunbury, E.H. : A History of Ancient Geography, 1955 (in two volumes)
- Chatterjee S.P. : 50 years of Science in India, Development of Geography, Indian Science Congress Association, 1964.
- Dickinson: Makers of Modern Geography, 1970
- Dickson and Howarth : The Makers of Geography
- East and Wooldridge : The Sprit and purpose of Geography
- Freeman: A Hundred years of Geography
- James , P.E. : American Geography- Inventory and Prospect
- James, P.E. : All possible World – A study of Geographical ideas, Indian Edition, Sachin Publication, Delhi 1980
- Sykes, P. : A History of Exploration, routledge and Kegan Paul, London, 1954
- Tylor, G. (ed.) : Geography in the 29 Century Wooldridge: Geographers as a Scientist
- I.C.S.S.R. : A survey of Research in Geography, Popular Prakashan, Bombay, 1972
- Board, C. Chorley, R., Hagget, P. and Stoddort, D.R.(ed.): Progress in Geography, Arnold, London, 1969-1993
- Dovisi, Wayne, K.D.(ed.) : Conceptual Revolution in Geography, University of London Press, 1972
- UNESCO : Source Book of Geography, Thompson press, UNESCO, Paris, 1965
- Rex Welford : Game in Geography, Logmans, 1972
- Harvey David: Explanations in Geography
- O.H.K. Spate : Let us enjoy geography
- Kaushik, S.D. : Bhaugolik Vichardharayan avam Vidhi Tantra, Rastogi Pub., meerut, 1982
- Haggett. : Geography – Modern Synthesis, Harper, 1983(Third Edition)

## PAPER IV

### 1. GEOGRAPHY OF ARID LANDS

- Unit 1 : Meaning and causes of aridity; Indices of Aridity; Delimitation of Arid lands of the world on the basis of Indices; Climate; Topography, Soils, Water resources and Minerals of the Arid lands of the world
- Unit 2 : Desertification : Extent of desertification in the world; causes of desertification: parameters of desertification measures to control desertification
- Unit 3 : Detailed study of arid regions of Israel, Egypt and the western arid interior of the U.S.A. with reference to Physiography, Soil, Agriculture, Irrigation and land reclamation
- Unit 4 : Great Indian Desert: Origin, Physiography, Climate, Agriculture, Irrigation, Livestock raising and population

#### RECOMMENDED READINGS

- Amiran, D.H.K. & Wilson, A.W. (ed.) : Coastal Deserts- Their Natural and Human Environments, The University of Arizona Press, Tucson, 1973
- Arnon, I : Crop Production in Dry Regions; Vols. I & II, Leonard and Hill, London, 1972
- Bhandari, M.M.: Flora of the Indian Desert, Scientific Publishers, Jodhpur, 1978
- Biswas, M.R. & Biswas, A.X. : Desertification, Pergamon Press, New York, 1982
- Chouhan, T.S. : Desertification in the World and its Control, Scientific Publishers, Jodhpur, 1997
- Drenge, H.E. : Desertification of Arid Lands, Harwood Academic Publishers, 1983
- Goudie, A. & J. Wilkinson: The Warm Desert Environment, Cambridge University Press, Cambridge, 1977
- Hills, E.S.(ed.): Arid Lands, UNESCO. London, 1966
- Hillel, D. : Negev Land, Water and Life in a Desert Environment, Praeger, N.Y. . 1982
- Heatcote: Arid Lands- Their Uses and Abuses, Longmans, 1964
- ICAR: Desertification and its Control, New Delhi, 1977
- Jeanes, D.N. : Australia-A Geography, Routledge and Kegan Paul, London, 1978
- Mann, H.S. (ed.) : Arid Zone Research and Development, Scientific Publishers, Jodhpur, 1980
- Matlook, W.G.: Realistic Planning for Arid Lands, Harwood Academic Pub. 1981
- Mann, H.S.(ed.) Scientific Reviews on Arid Zone Research, Scientific Publishers, Jodhpur, 1981
- Meginnies, W.G., B.J. Godman and P. Paylore : Deserts of the World University of Arizona Press, 1968
- Ministry of Food and Agriculture: Proceedings of the symposium on the Problems of Indian Arid Zone, New Delhi, 1967
- Mishra, V.C.: Geography of Rajasthan, NBT, New Delhi, 1967

- National committee for Geography Symposium on Arid Zone, Calcutta, 1968
- Nirdov: The Semi-Arid World: Man in the Fringe of the Desert ; Longmans, London, 1974
- Omi, B. & E. Efrat: Geography of Israel, Israel Translation, Jerusalem, N.P. Lydolph, P.A.: Geography of U.S.S.R.
- Proceedings of the Symposium on the Rajputana Desert, Bull, 1. National Institute of Sciences, New Delhi, 1952
- Proceedings of the symposium on the Problems of Indian Arid Zone Ministry of Food and Agriculture, New Delhi, 1971
- Roonwal, M.L. : Natural Resources of Rajasthan, Vol. I and II. The University of Jodhpur, 1977
- Sharma, R.C. : Settlement Geogrpahy of Indian Desert, New Delhi, 1970
- Sharma, R.C. (ed.) Resource Management in Dry Lands (Rajasthan a example) Rajesh Publication, Delhi
- Singh R.L.(ed.) : A Regional Geography of India, National Geographical Society, Varanasi, 1977
- Stamp, LD.: Africa, John Wiley & Sons, London UNESCO Publications:  
A History of Land use in Arid Regions(ed. By L.D. Stamp) Vol. XVII  
Problems of the Arid Zone, Proceedings of the Paris Symposium, Vol. VII
- Walton, K: The Arid Zones, Hutchinson Univ. Library, London, 1969
- White, G.E. (ed.) : The future of Arid lands, Publication no. 43, M.A. Associ. Adv. Scin., Washington, 1956.

## **2. ADVANCED SYSTEMATIC AND REGIONAL GEOGRAPHY U.S.A.**

- Unit 1 : Physiography; Physiographic regions, Climate; Climatic regions, Soil-Soil Groups, Natural Vegetation.
- Unit 2 : Agriculture Crops: Corn, Cotton, Wheat, Tobacco, Agriculture Belts; Minerals: Iron Ore, Copper, Manganese and Atomic Minerals
- Unit 3 : Power resources: Coal, Petroleum and Hydroelectricity, Location and distribution of Industries: Iron and Steel, Ship Building, Cotton Textile, Automobile and Chemical Industries, Transport: Rail and Inland Waterways
- Unit 4 : A detailed study of Major Geographical Regions

### **RECOMMENDED READINGS**

- Atwood, E(ed.): The Physiographic Provinces of North America
- Fenneman, N.M.: Physiography of Wstern United States
- Green, C.M. : American Agriculture
- Loomix, F.B.: Physiography of the United States
- Monkhouse, FJ & H.R. Cair, North America, Longman
- Peterson, J.H.: North America, London

White, C.L. and Foscoe, F.J.: Regional Geography of Anglo-America Watson, W.: North America, Methuen, London

### **3. ADVANCED SYSTEMATIC AND REGIONAL GEOGRAPHY JAPAN**

- Unit 1 :        Physiography: Climate, Soil and Natural Vegetation  
Unit 2 :        Major Agricultural produce, Agricultural regions, Important minerals  
Unit 3 :        Major power resources; Locations and distribution of important industries, Industrial regions; Transportation  
Unit 4 :        Detailed study of major geographical regions.

#### **RECOMMENDED READINGS**

Trewatha, GT : Japan Physical, Cultural and Regional Geography, 1953  
Prue Dempster : Japan Advances, Methuen and Co., London  
Keob: East Asia  
Ackerman, E.A. : Japan's Natural Resources

### **4. ADVANCED SYSTEMATIC AND REGIONAL GEOGRAPHY MONSOON ASIA (EXCEPT INDIA)**

- Unit 1 :        Meaning and Delimitation of Monsoon Asia, Physiography, Climate, Soil and Natural vegetation  
Unit 2 :        Major Agricultural Crops of Monsoon Asia: Rice, Tea, Coffee, Rubber, Coconut; Agricultural regions of China  
Unit 3 :        Important Minerals of Monsoon Asia: Coal, Tin and Petroleum; Industrial development and important industries of Japan : Iron and Steel, Cotton Textile and Automobile  
Unit 4 :        Major Geographical regions of China and Japan

#### **RECOMMENDED READINGS**

Cressey, G.B. : Land of 500 Million- A Geography of china  
Cressey, G.B. : Asia's Land and Peoples  
East, W.G. and Spate, O.H.K. : The changing Map of Asia  
Peterson, A.D.C. : The Far East  
Spencer, J.E. : Asia , East by South  
Stamp, L.D. : Asia  
Trewartha, G.T. : Japan – Physical, Cultural and Regional Geography, 1953  
Robinson : Monsoon Asia  
Dubby, E.H.G. : Monsoon Asia

Fisher, C.A. : South East Asia-Social, economic And Political Geography

Ginsburg, N. : The pattern of Asia

Rawson, R.R. : Monsoon Asia

Robequain, C. : M.alaya, Indonesia, Borneo and Philippines

Nigam M.N. and

Garg B.L. : Monsoon Asia

Kashi Nath Singh And Jagdish Singh : Monsoon Asia

## **5. ADVANCED SYSTEMATIC AND REGIONAL GEOGRAPHY OF WESTERN EUROPE**

- Unit 1 : Physiography, Climate, Soil and natural vegetation
- Unit 2 : Major agricultural produce, Agricultural regions; Important Minerals
- Unit 3 : major power resources; Location and distribution of important industries, Industrial regions; Transportation
- Unit 4 : Detailed study of major geographical regions

### **BOOKS RECOMMENDED**

Cole, J.A. : Italy, 1964

Demangeon, A. : the British Isles.

Dickinson, R.f. : The Regions of Germany

Elkin, T.N. : Germany

Freeman, T.V. : Ireland

Houston, J.M. : A Social Geography of Europe

Hoffman, G.w. : A geography

Labrode, E.D. : Western Europe, 1955

Moratonne, e. : Geographical Regions of France

Mead, WR. : An Economic Geography of Scandinavia and Finland

Milward, Roy: Scandinavia Lands, 1960

Monkhouse, F.J.: Western Europe

More jesper: F.J.: The Land of Italy

Newbiggin, M.I. : Southern Europe

Siegfried, A : Switzerland-A Regional Geography

Shackleton, M.R. : Europe

Smaith, : An Economic Geography of Britain

Stamp, L.D. and Beaver, S.S.H. : the British Isles

Stamp, L.D.: The land Of Britain Its use And Misuse

## **6. ADVANCED SYSTEMATIC AND REGIONAL**

## **GEOGRAPHY OF SOUTH WEST ASIA**

- Unit 1: Physiography; Climate, Soil and Natural vegetation
- Unit 2: Major agricultural produce, Agricultural regions, Important minerals
- Unit 3: Major power resources; Location and distribution of important industries; Industrial regions; Transportation
- Unit 4: Detailed study of major geographical regions

### **RECOMMENDED READINGS**

Beaumont, P.G.H., Blake, H. and Wagstaff: The Middle- East Geographical. Study, John Wiley London, 1977

Fisher, W.A.: Middle East, Methuen, London

Stamp, L.D. : Asia, Methuen, London

## **7. ADVANCED SYSTEMATIC AND REGIONAL GEOGRAPHY OF THREE SOUTHERN CONTINENTS**

- Unit 1: Physiography; Climate, Soil and Natural vegetation
- Unit 2: Major agricultural produce, Agricultural regions, Important minerals
- Unit 3: Major power resources; Location and distribution of important industries; Industrial regions; Transportation
- Unit 4: Detailed study of major geographical regions

### **RECOMMENDED READINGS**

Carlosn: Latin America

Colin Legum: Africa-A Hand-book of the Continent, Asia Publishing House, Bombay

Fitzgerald, W. : Africa

Stamp, L.D. : Africa – Study in Tropical Development, Jonh Wiley and Sons, New York

Siley, A. : Africa – Social Geography, Gerald Duckworth and Co. Ltd. , London

Shanhan : South Amrica – An Economic And Regional Geography, Methuen

## **8. ADVANCED SYSTEMATIC AND REGIONAL GEOGRAPHY OF NEIGHBOURING COUNTRIES OF INDIA**

- Unit 1 : Physiographic and climate of Pakistan and China, Soil and Natural vegetation of Bangladesh and SriLanka
- Unit 2 : Major agricultural production and agricultural regions of China And Pakistan, Population of Bangladesh
- Unit 3 : Important minerals of China, Important Industries of China And Pakistan, Industrial regions of China and Bangladesh

Unit 4: Detailed study of major geographical regions of China, Pakistan, Bangladesh and SriLanka

#### RECOMMENDED READINGS

Stamp, L.D. : Asia

Spate, O.H.K. : India and Pakistan

Rasid, M. : Bangladesh

Robinson: Monsoon Asia

### PAPER V

#### **CARTOGRAPHY AND PROJECT /INSTRUMENTAL SURVEY OF AN REPUTED INSTITUTE/ GEOGRAPHICAL TOUR (PRACTICAL)**

**Teaching in Geography Practical shall be imparted in groups of 15 students.**

Out of 100 marks assigned for geography practical, 60 marks are reserved for Laboratory Work Test, 10 marks for Project report & 10 marks for viva on project report *or* instrumental survey of a reputed institute *or* Geographical Tour (For every 15 students one teacher shall accompany the party), 10 marks for the evaluation of record book and 10 marks for viva on record book.

Laboratory Test: Scheme and nomenclature of Survey of India topographical maps, interpretation of topographical sheets of typical regions, interpolation of contours, methods of determination of intervisibility

Profiles: Serial, Superimposed, composite, projected, transverse and longitudinal; usefulness of profile in studying landforms spatial and temporal angles

Methods of slope analysis of C.K. Wentworth, G. H. Smith and Henry and Raisz, Area-height diagram, Hypsometric curves, Drainage density, orders and confluences

Map Projections; Projections and their classification; simple conical equal area (Lambert's Projection), Bonne's Projection, Polyconic, International Mercators, Gall's Stereographic, Gnomonic Zenithal (Polar and Equatorial cases), Orthographic Zenithal(Polar and Equatorial cases) Sinusoidal (Normal and Interrupted), Mollweide (Normal and Interrupted), Choice of Projections

Statistical Methods: Classification and Tabulation of Statistical data, Frequency Distribution and graphs, Measures of Central tendency (Arithmetic mean, geometric mean, median and mode; Measures of dispersion (Quartiles mean deviation and standard deviation), Variability Indices

#### RECOMMENDED READINGS

Monkhouse, fJ and Wilkinson, H.R. : Maps and Diagrams, Methuen & Co., London

Raisze, E. : General Cartography, McGraw Hill, New york, 1960

Strees, J.A. : Maps Projections

Gregory, S : Statistical Methods and the Geographers, Methuen & Co., London, 1971

Singh R.L. : Elements of Practical Geography, Kalyani Publishers, new Delhi, 1979

Robinson, A.H. : Elements of Cartography, Chapman and Hall, London



Lawrence, G.R.P. : Cartographic methods, Methuen & Co., London 1971

Singh R. and Kanujia, L.R.S. : Map Work and Practical Geography, Allahabad

J. Kellaway : Map Projections

## PROJECT REPORT /GEOGRAPHICAL TOUR

The project will be selected by candidates in consultation with the Head of the Department and the study report, duly approved by the teacher(s) concerned, is to be submitted along with the Practical Record.

The geographical tour and study and field tour or execution of typical areas with particular attention to anyone of the following aspects : Structure, terrain and geomorphology; Drainage and river valley development; Vegetation forms, Agricultural Industrial land use; Communication, Regional synthesis and analysis of physical and cultural landscape

### **M.A. (Final) Examination 2021**

Note: Each theory paper is divided in three parts i.e. Section-A, Section-B, and Section-C.

Section-A: Will consist of 08 compulsory questions. There will be two questions from each unit and answer of each question shall be limited up to 30 words. Each question will carry of 3 marks.

Section-B: Will consist of 08 questions. Each unit will be having two questions; students will answer one question from each unit. Answer of each question shall be limited up to 250 words. Each question will carry 9 marks.

Section-C: Will consist of total 04 questions. Students will answer any 03 question and answer of each question shall be limited up to 500 words. Each question will carry 20 marks.

### **PAPER VI**

#### **Research Methodology**

Unit 1: Meaning, objectives, types, significance and ethic of research, Problems of geographical research, Identification of problematic areas, Sources and natures of data to be used, Preparation of questioner, Basic techniques of collecting primary data through interviews, Hypothesis and Preparation of research projects and writing of reports, Preparation of field reports, How to write thesis

Unit 2: Spatial data classification and sampling problems; Need for sampling, types of sampling, sample size and sampling area, Selected techniques of spatial analysis, methods of measuring concentration and dispersal of economic activities, Nearest Neighbour analysis, Regional interaction analysis.

Unit 3: Gravity potential, Inter-regional flow-analysis, Methods of Delimiting Regions, Economic Regions, Industrial Regions, Planning Regions, Agricultural Regions, Regional Population Analysis, Population Projection, Population Migration, Network Analysis, Techniques of Urban Analysis with reference to land use