

# Raj Rishi Bhartrihari Matsya University, Alwar

## Syllabus-Geography M.A./M.Sc. Previous

### SCHEME OF EXAMINATION

#### M.A./M.Sc. PREVIOUS

#### M.A./M.Sc. FINAL

Each Theory Paper

3 Hrs. Duration

Maximum Marks 100

1. The number of papers and the maximum marks for each paper/practical shall be shown in the syllabus for the subject concerned. It will be necessary for a candidate to pass in the theory part as well as in the practical part ( wherever prescribed) of a subject/ paper separately. Previous and final each will be of 500 marks Total = 1000 Marks.
2. A candidate for a pass at each of the Previous and the final Examinations shall be required to obtain (i) at least 36% marks in the aggregate of the papers prescribed for the examination and (ii) at least 36% marks in practical (s) wherever prescribed at the examination, provided that if a candidate fails to secure at least 25% marks in each individual paper at the examination and also in the test dissertation/ survey report/field work, wherever prescribed, he shall be deemed to have failed at the examination not withstanding having obtained the minimum percentage of marks required in the aggregate for the examination. No division will be awarded at the previous examination. Division shall be awarded at the end of the Final Examination on the combined marks obtained at the previous and the Final Examinations taken together, as noted below.  
First Division 60% of the aggregate marks taken together at  
Second Division 48% the Previous and the Final Examination
3. If a candidate clears any Paper(s)/Practical(s) Dissertation prescribed at the Previous and / of Final Examination after a continuous period of three years, then for the purpose of working out his division the minimum pass marks only viz. 25% (36% in the case of practical) shall be taken into account in respect of such Paper(s) Practical(s)/ Dissertation are cleared after the expiry of the aforesaid period of three years, provided that in case where a candidate requires more than 25% marks in order to reach the minimum aggregate as many marks out of those actually secured by him will be taken into account as would enable him to make up the deficiency in the requisite minimum aggregate.

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4. The Thesis/ Dissertation/ Survey Report/ Field Work shall be typewritten and submitted in triplicate so as to reach the office of the Registrar at least 3 weeks before the commencement of the theory examinations. Only such candidates shall be permitted to offer Dissertation/ Field Work/ Survey Report/ Thesis (if provided in the scheme of examination) lieu of a paper as have secured at least 55% marks in the case of annual scheme and I and II semester examinations taken together in the case of semester scheme, irrespective of the number of papers in which a candidate actually appeared at the examination.

### **MA/M.Sc. GEOGRAPHY**

There will be four theory papers and a practical each in previous and final Examination, Each of the theory papers will be of 100 Marks. Each of the theory paper will be of three hours duration. Candidates will be required to pass both in Theory and Practical separately.

Note : -

1. Each theory paper is divided into three independent units. The question paper is divided into three parts, Part –A, Part-B and Part-C
2. Part – A (20 marks) is compulsory and contains 10 question (20-50 words), at least three questions from each unit, each question is of 2 marks.
3. Part – B (20 marks) is compulsory and contains four questions, at least one from each unit. Candidate is required to attempt all four questions. Each question is of 4 marks (50-100 words).
4. Part – C (60 marks) contains six question, two from each unit. Candidate is required to attempt three questions from each unit. Each question is of 20 marks (400 words).
5. Practical examination will be conducted by the board of examiners.
6. The candidate will have to pass in theory and practical separately.
7. Non collegiate candidates will have to attend a practical training camp of 48 hours at a college affiliated to the RRBM University, Alwar notified by the University from time to time in which Geography subject is taught on payment of fee fixed by the University. The candidates appearing at examination from any examination center located in Alwar district will attend the practical camp at the Department of Geography (at any government college) on payment of fee fixed by the University. The candidate will pro-cure certificate of successful completion of practical training camp from the College/Department of Geography and produce the same at the time of practical examination.

### **M.A./M.Sc. Previous**

Paper I,II, & III are compulsory.

Paper I : Evolution of Geographical thought.

100 Marks

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Pater II : Structural and Dynamic Geomorphology.	100 Marks
Paper III : Principles and Theory of Economic Geography.	100 Marks
Pater IV : Any one of the following –	100 Marks
(a) Quantitative Techniques in Geography	
(b) Regional Planning.	
(c) Agricultural Geography	

Practical :	100 Marks
<b>Total</b>	<b>500 Marks</b>

N.B. : 12 hours of teaching practical be provided per batch of 20 students per week.

Note : A weekly seminar is to be arranged for M.A. Previous & Final Students.

### MA/ M.Sc. Final

PAPER V & VI are compulsory	
Paper V : Advanced Geography of India.	100 Marks
Pater VI : Urban Geography.	100 Marks
Paper VII : Anyone of the following-	100 Marks
(a) Bio-Geography	
(b) Population Geography.	
Pater VIII :Anyone of the following	100 Marks
(a) Political Geography	
(b) Industrial Geography	
Dissertation : In lieu of paper VII or VIII.	
Practical :	100 Marks
<b>Total</b>	<b>500 Marks</b>

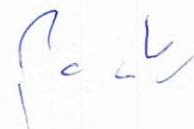
N.B. : 12 hours of teaching practical be provided per batch of 20 students per week.

Instructions for Geography Practical Examination :

1. Record work of minimum 20 sheets must be prepared by students and checked & signed by teacher with date, otherwise students will be responsible. Students must write his/her name on every sheet. The teacher should give fresh exercise every year, so that the students may not undertake tracing of old exercise.
2. Viva-voce Examination be held to Judge the real knowledge the students and to examine the authenticity of the record work, the marking on record work and viva-voce based on







the original work of the candidate and not merely producing the record work, done by any other agency. Marks will be deducted for the part of the syllabus not covered.

3. On an average about 20 students be examined in one day in MA Previous. As far as possible in one practical exercise be set to judge the Practical skill.
4. The external examiners, be provided syllabus and detailed instruction at the time of obtaining his consent. For M.A. / M.Sc. Previous & Final a minimum of 2 days each be fixed to conduct the examination.

Note : A Copy of the instructions is sent to the examiners for their information.

### MA/M.Sc. GEOGRAPHY

There will be four theory papers and a practical each in previous and final Examination, Each of the theory papers will be of 100 Marks. Each of the theory paper will be of three hours duration. Candidates will be required to pass both in Theory and Practical separately.

Note : -

1. Each theory paper is divided into three independent units. The question paper is divided into three parts, Part –A, Part-B and Part-C
2. Part – A (20 marks) is compulsory and contains 10 question (20-50 words), at least three questions from each unit, each question is of 2 marks.
3. Part – B (20 marks) is compulsory and contains four questions, at least one from each unit. Candidate is required to attempt all four questions. Each question is of 4 marks (50-100 words).
4. Part – C (60 marks) contains six question, two from each unit. Candidate is required to attempt three questions, one from each unit. Each question is of 20 marks (400 words).

#### Paper- 1 Evolution of Geographical Thought

Duration: 3 hours.

Max. Marks 100

Note: The question paper will contain three units as under

#### Unit 1

Philosophy of geography during ancient and medieval period: Philosophy, definition and nature of geography: scope and purpose of geography. Brief study of Greek and Roman scholars.

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Geographical concept in ancient India. The dark age of geography.  
The Arab period. The beginning of modern geography: Contribution of Bernhardus Varenius.  
Contribution of Immanuel Kant. Impact of Darwinian Theory on geographical thoughts.  
Contribution of Alexander von Humboldt. Contribution of Carl Ritter.

## Unit II

Major school of thoughts and their contribution: Main characteristics of German school of thoughts and contributions of Friedrich Ratzel, Alfred Hettner and Ferdinand von Richtofen.  
Main characteristics of French school of thought and contributions of Paul Vidal de la Blache and Jean Brunhes.

Main characteristics of American school of thought and contributions of W.M. Davis Richard Hartshorne, and Carl O. Sauer.

Main characteristics of British school of thought and its contribution to geography.

Main characteristics of contemporary Indian geographical teaching and research.

Major conceptual trends in geography: The study of man-land relationship: environmental determinism, possibilism and neo-determinism. Geography as chronological science and areal differentiation. Geography as morphology of landscape.

## UNIT-III

Dichotomies in geography: physical v/s human and systematic v/s regional geography.

Dichotomies in geography: qualitative v/s quantitative approach, analysis v/s synthesis approach. Issues related to explanations in geography: General ideas of Hypothesis, Theories and laws in geography. Forms of explanations in geography.

Exceptionalism in geography and the Schaefer-Hartshorne debate. Impact of positivism and scientific method in geography. Behaviouralism, humanism and radicalism in geography.

### Suggested Readings:

1. Abler, Ronal F. et al, Geography's Inner Worlds: Pervasive Themes in Contemporary American Geography, Routledge, New Jersey, 1992.
2. Ali, S.M.. Arab Geographers, Institute of Islamic Studies.
- 3 Ali, S.M., The Geography of Puranas, People's Publishing House, New Delhi.
4. Dikshit R.D., Geographical Thought: A Contextual History of Ideas, Prentice Hall of India Pvt. Ltd. 2000.
5. Dikshit R.D., The Art and Science of Geography: Integrated Readings, Prentice Hall of India, New Delhi, 1994.

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6. Dohrs, F.E. and Sommers, L.. W. (eds.) Introduction to Geography, Thomas Y. Crowell Co., New York, 1967.
7. Fischer, E. et al, A Question of Place: The Development of Geographic Thought, R.V. Beatty Ltd., Arlington, 1967.
8. Ruson, R.H., A. Geography of Geography: Origins and Development of the Discipline, W.M.C. Brown Company.
9. Hartshome, Richard. The Nature of Geography, Association of American Geographers, Lancaster, Pennsylvania, 1939.
10. Hartshorne, Richard, Perspective on the Nature of Geography. RandMcNally and Co., Chicago, 1959.
11. Harvey, M.E. and B.P. Holly (eds.), Themes in Geographic Thought, Rawat Publications, Jaipur, 1999.
12. Husain, Majid, Evolution of Geographical Thought, Rawat Publications, Jaipur, 1984.
13. Mandal, R.B. and V.N.P. Sinha, Recent Trends and Concepts in Geography (three volumes), Concept Publishing Company, New Delhi.
14. Peet, R., Modern Geographical Thought, Blackwell, Oxford, 1998.
15. Prasad, H., Research Methods and Techniques in Geography, Rawat Publications, Jaipur.
16. Raza, Moonis, A Survey of Research in Geography, ICSSR, New Delhi.
17. जैन एस.एम. भौगोलिक चिन्तन का विकास (साहित्य भवन, आगरा)
18. कौशिक, एस.डी: भौगोलिक विचाराधारा एवं विधि तंत्र (रस्तोगी प्रकाशन, मेरठ)
19. माथुर एव जोशी: भौगोलिक विचाराधाराओ का इतिहास (आर. बी. एस. पब्लिशर्स, जयपुर)
20. सिंह, जे. भौगोलिक चिन्तन के मूल आधार (वसुन्धरा प्रकाशन, नई दिल्ली)
- 21 बंसल एस.सी. भौगोलिक चिन्तन विधि तंत्र

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## PAPER-II: STRUCTURAL AND DYNAMIC GEOMORPHOLOGY

3hr. duration

Max Marks:100

1. Each theory paper is divided into three independent units. The question paper is divided into three parts, Part-A, Part-B and Part-C
2. Part-A (20 marks) is compulsory and contains 10 questions (20-50 words), at least three questions from each unit, each question is of 2 marks.
3. Part-B (20 marks) is compulsory and contains five questions, at least one from each unit. Candidate is required to attempt all five questions. Each question is of 4 marks (50-100 words).
4. Part-C-(60 marks) contains six questions, two from each unit. Candidate is required to attempt three questions one from each unit. Each question is of 20 marks (400 words)

### Course Contents:

#### Unit - I

Nature and scope of Geomorphology, Fundamental concept, Geological structures and landforms, uniformitarianism, concept of threshold, earth's interior, isostasy. Earth movements - epeirogenetic and orogenetic movement. Forces of crustal instability, plate tectonics, seismicity, vulcanicity, orogenetic structures with reference to the evolution of the Himalaya.

#### Unit - II

Earth sculpturing processes. Concept of gradation, Agents and processes of gradation, causes, types and classification of weathering, Mass movement, erosional and depositional processes, resultant landforms and soil formation. Dynamic geomorphic processes; fluvial, glacial, Acolian, marine and karst processes and resulting landforms. Complexities in geomorphological processes. Erosion surfaces, techniques of identification and correlation. Slope evolution different views and models.

#### Unit - III

Geomorphology of ocean bottoms-Pacific, Indian and Atlantic ocean. Coral reefs and their theories. Coastal Geomorphology with special reference to India. Applied Geomorphology application of geomorphic mapping terrain evaluation. Digital Elevation Model (DEM) and Triangulated Irregular Network (TIN) unit, land capability and last suitability classification, hydro-geomorphology, urban geomorphology, environmental geomorphology, geomorphic hazards.

### Suggested Books:

1. Ahmed, E.: Coastal Geomorphology of India, New Delhi.
2. Chorley, R.J.: Spatial Analysis in Geomorphology, Methuen, London, 1972.

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3. Cooke, R.U. and Doornkamp, J.C. Geomorphology in Environmental Management- An Introduction, Clarendon Press, Oxford, 1974.
4. Cotton, C.A.: Geomorphology, John Willey & Sons, New York.
5. Dayal, P.: A Test Geomorphology.
6. Dury, G.H.: The Face of the Earth, Penguin Harmondsworth, 1959.
7. Fairbridge, R.W.: Encyclopedia of Geomorphology, Reinholdts, New York, 1968.
8. Goudie, A: The Nature of the Environment, Oxford & Blackwell London, 1993.
9. Gamer, H.F.: The origin of landscap-A Synthesis of Geomorphology Oxford University Press, London, 1974.
10. Jefferys. H.: The Earth-Its Origin, History & Physical Constitution.
11. John, Pity: Introductions to Geomorphology.
12. Kale, Vand Gupta, A: Element of Geomorphology.
13. King and Embleton, C.A.M.: Glacial and Pre-Glacial Geomorphology, Arnold.
14. Lobeck, A.K.: Geomorphology, McGraw hill Book co., New York.
15. Mitchell, C.W.: Terrain Evaluation, Longman, London, 1973.
16. सविन्द्र सिंह :भू-आकृति विज्ञान, वसुन्धरा प्रकाशन, गोरखपुर।
17. कौशिक, एस.डी: भू-आकृति विज्ञान, रस्तोगी प्रकाशन, मेरठ।
18. नेगी, बी.एस. : भू-आकृति विज्ञान, रस्तोगी प्रकाशन, मेरठ।

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# Paper- III: Principles and Theory of Economic Geography

Duration: 3 hours.

Max, Marks-100

## Note

1. Each theory paper is divided into three independent units. The question paper is divided into three parts, Part-A, Part-B and Part-C
2. Part-A (20 marks) is compulsory and contains 10 questions (20-50 words), at least three questions from each unit, each question of 2 marks.
3. Part-B (20 marks) is compulsory and contains five questions, at least one from each unit Candidate is required to attempt all five questions. Each question is of 4 marks (50-100 words).
4. Part-C-(60 marks) contains six questions, two from each unit Candidate is required to attempt three questions one from each unit. Each question is of 20 marks (400 words)

## Course Contents :

### Unit - I

Meaning and scope of economic geography, simple model of economy and spatial structure of economy, environmental relations of economy, classification of the economies of the world (primary, secondary and tertiary), theories concepts and models of development. Developed, developing and under developed economies.

Agricultural typology' With reference to subsistence agriculture. plantation agriculture, Mediterranean agriculture, mixed farming, commercial grain farming, livestock rearing.

### Unit - II

Energy resources: conventional and non-conventional, spatial patterns and supply problems; manufacturing: factors of production, theories of industrial location: Weber, Hoover, Losch, Isard and Smith, major industries: iron and steel, aluminum, paper and pulp, cotton textile, chemical and fertilizers. World transport patterns: accessibility and connectivity:

### Unit - III

Study of Great Lake industrial region of USA, Study of Ruhr industrial region, study of industrial belt of Japan. Study of the industrial region of Ukraine.

Decision making process: Location decision-behavioral view, spatial organization of landuse: Central place theory of Christaller, Von Thunen's Agriculture location theory, emerging patterns of world trade, barriers to trade. dynamics of blocks, economic development, regional disparities

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in economic development, economic regionalization for area development and planning, economic regions of India.

### Recommended Readings:

- Alexander, J.W. 2001. Economic Geography. Prentice Hall of India, New Delhi.
- Chapman, K and Walker, D. 1991. Industrial Location: Principles and Policies. Blackwell, Oxford.
- Grigg D. 1995. An Introduction to Agricultural Geography, Second edition, Routledge.
- Gupta P. Sen and Sydasuk, Galyna: Economic Regions and Regionalization in India
- Jarret, H.R. 1977. A Geography of Manufacturing. Trans-Atlantic Publishers, London.
- James, O. W. and Peter, O. M. 1986. Economic Geography. John Wiley and Sons, New York.
- Hodder B.W. and Lee, R. 1974: Economic Geography Methuen, London. Manda, R. B. 1982. Land Utilization - Theory and Practice: Concept Publishing Company, New Delhi.
- Scott, J. 1988. New Industrial Spaces Pion, London
- Shafi, M. 2000. Agricultural Geography of South. Asia-, Macmillan, New Delhi.
- Singh J. and Dhillon, S. S 2004: Agricultural geography. Tata Mc-Graw-Hill, New Delhi.
- Singh, Kashi Nath and Siddiqui, A.R.: Economic Geography, Prayag Pustak Bhawan, Allahabad.
- Smith, D. M. 1981. Industrial Location - An economic, geographical analysis. 'John Wiley, New York.
- Tyagi, t P. 1998. Agricultural Economics and Rural Development (Sixth edition). Jai Prakash Nath, Meerut
- Wheeler, J.O. and Muller, O.P. 1995: Economic Geography. John Wiley, New York.

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## PAPER-IV (a): QUANTITATIVE TECHNIQUES IN GEOGRAPHY

Max, Marks :100

3hr. duration

Note :

1. Each theory paper is divided into three independent units. The question paper is divided into three parts, Part-A, Part-B and Part-C
2. Part-A (20 marks) is compulsory and contains 10 questions (20-50 words), at least three: questions from each unit, each question of 2 marks.
3. Part-B (20 marks) is compulsory and contains five questions, at least one from each unit Candidate is required to attempt all five questions. Each question is of 4 marks (50-100 words).
4. Part-C-(60 marks) contains six questions, two from each unit Candidate is required to attempt three questions one from each unit. Each question is of 20 marks (400 words)

### Course Contents:

#### Unit - I

Meaning and concept of research, Research Problem, meaning and identification, Hypothesis and testing of hypothesis, Research design and types of research, writing research report, Sampling frame and procedure, sampling size and error, Measure of central tendency-Mean, Median, Mode.

#### Unit - II

Measure of dispersion, Standard deviation and Mean deviation, Interpolation, Extrapolation, Correlation, Spearman's rank and Product movement correlation, Regression analysis, simple linear, Construction of regression line, Multiple regression and correlation, Regression residuals.

#### Unit - III

Probability: Theory of probabilities-law of addition and multiplication, probabilities of distribution: Normal, Binomial, Poisson-sampling: Basic concepts,  
Hypothesis Testing: Needs and types of hypotheses-goodness of fit and significance and confidence levels, Chi-square test, binomial test, t-test, Mann-Whitney U test, F test, Analysis of Variance (ANOVA), Principles and elements of factor analysis, Principle component analysis.

### Books Recommended:

1. David Unwin: Introductory Spatial Analysis, Methuen, London, 1981.

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2. Gregory, S.: Statistical Methods and Geographer, Longman, London, 1978.
3. Hammond R and P.S. McCullagh: Quantitative Techniques in Geography: an Introduction, Clarendon Press, Oxford, 1974.
4. John P. Cole and Cuchlanie A.M. King: Quantitative Geography, Johri Wiley, London, 1968.
5. Johnston R.J.: Multivariate Statistical Analysis in Geography, Longman, London, 1973. 6. Kaustoniannis: Theory of Econometrics, Mcmillan, London, 1973.
7. Maurice Yeats: An Introduction to quantitative Analysis in Human Geography, McGraw Hill, New York, 1974.
8. PetterHaggett, Andrew D.Cliff, & Allan Frey, : Location Methods.

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## PAPER-IV (b): REGIONAL PLANNING

3hr duration.

Max Marks 100

### Note

1. Each theory paper is divided into three independent units. The question paper is divided into three parts, Part-A, Part-B and Part-C
2. Part-A (20 marks) is compulsory and contains 10 questions (20 -50words), at least three questions from each unit, each question is of 2 marks.
3. Part-B (20 marks) is compulsory and contains five questions, at least one from each unit Candidate is required to attempt all five questions. Each question is of 4 marks (50-100 words)
4. Part-C-(60 marks) contains six questions, two from each unit Candidate is required to attempt three questions one from each unit. Each question is of 20 marks (400 words)

### Course Contents:

#### Unit - I

Regional Planning: Term, Task, Scope and objective. Specific problems: Task and scope of regional Planning in developing countries. Principles and Determination of Regional Planning. Significance of the ecological potential of a country's region or regional planning. Importance of the density, distribution and development population for regional planning

#### Unit - II

Significance of the term 'Integration' (Political, Economic, Social and Spatial) for Regional Planning. Importance of the political system for regional planning. Significance of the factor, adaptation of development of different social classes of the population for regional planning.

#### Unit - III

Methods of Regional Planning: Factor Analysis. Comparative Cost-analysis. Industrial complex and analysis. Shift analysis.

#### Books Recommended:

1. Abler, R. te.al: Spatial Organisation : The Geograpers' View of the World. Prentice Hall, Englewood Cliffs, N.J., 1971
2. Bhat, L.S : Regional Planning in India, Statistical Publishing Society, Calcutta, 1973
3. Bhat, L.S. : Micro-Level Planning : A Case Study of Karnal Area, Haryana, K.B. Publications, NewDelhi, 1976
4. Chorley, R.J. & Hagget, P. : Models in Geography , Methuen, London, 1967

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5. Christaller, W. : Central Places In Sothern Germany, Translated by C.W. Baskin, Prentice Hall, Englewood Cliffs, New jersey, 1966

6. Friedmann, J. & Alonso, W.: Regional Development Policy – A Case Study of Venezuela, M.I.I.Press Cambridge, Mass, 1966

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## PAPER-IV (c) : AGRICULTURAL GEOGRAPHY

3hr. duration

Max. Marks

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Note : -

1. Each theory paper is divided into three independent units. The question paper is divided into three parts, Part –A, Part-B and Part-C
2. Part – A (20 marks) is compulsory and contains 10 question (20-50 words), at least three questions from each unit, each question is of 2 marks.
3. Part – B (20 marks) is compulsory and contains four questions, at least one from each unit. Candidate is required to attempt all four questions. Each question is of 4 marks (50-100 words).
4. Part – C (60 marks) contains six question, two from each unit. Candidate is required to attempt three questions from each unit. Each question is of 20 marks (400 words).

### Course Contents :

#### Unit – I

Nature, scope, significance and development of agricultural geography. Approaches to the study of agricultural geography: Commodity, systematic and regional. Origin and dispersal of agriculture. Sources of agricultural data. Determinants of agricultural land use – Physical, economic, social, and technological. Land holding and land tenure systems, Land reforms, land use policy and planning. Agro-climatic Zones

#### Unit – II

Selected agricultural concepts and their measurements: cropping pattern, crop-concentration, intensity of cropping, degree of commercialization, diversification and specialization, efficiency and productivity, crop combination regions and agricultural development. Determinants of Agriculture and Productivity. Theories of agricultural location based on several multi-dimensional factors: Von Thunen's theory of agricultural location and its recent modifications, Whittelsey's classification of agricultural regions, land use and land capability. Agricultural Systems of the World.

#### Unit – III

Agriculture in India – Land use and shifting cropping pattern. Regional pattern of productivity in India. Green Revolution, White Revolution, Food deficit and Food surplus regions, nutritional index. Specific problems in Indian agriculture and their management and planning. Agricultural Policy in India.

Contemporary issues; Food, nutrition, hunger, drought and food security, food aid programmes; environmental degradation: role of irrigation, fertilizers, insecticides and pesticides, technological know-how. Employment in the agricultural sector: landless Feminization, children,

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occupational health and agricultural activities. Agriculture Export Policy. Study of Changing land use from Agriculture to Non Agricultural in National Capital Region of India.

**Books Recommended :**

1. Gregor, H.P. : Geography of Agriculture, Prentice Hall, New York, 1970.
2. Grigg, D.B. : the Agricultural Systems of the World. Combridge University Press, New York, 1974.
3. Manmon, A.M. : Agriculture and Environment Changs, Jhn Wiley, Londoan, 1995.
4. Morgan W.B. and Norton, R.J.C. : Agricultural Geography. Mathuuesn London, 1971.
5. Morgan, W.B. : Agriculture in the Third World – A Spatial Analysis Westview Press, Boulder, 1978.
6. Sauer, C.O. : Agricultural Origins and Dispersals, M.L.T. Press, Mass, U.S.A., 1969.
7. Singh, J. and Dhillon, S.S. : Agricultural Geography. Tata McGrow Hill Pub, New Delhi, 1988.
8. Tarrant, J.R. : Agricultural Geography. Wiley, New York, 1974.
9. Stamps, L.D. Kostro Wisckie : Land Britain, Issues and Misuses, World Types of Agriculture, Polish Academy, Warsaw.
10. Shafi, M. : Land Use in Eastern U.P., Aligarh University Press.
11. Ali Mohammed : Situation of Agriculture Development in India, Concept Publicatin Co., Delhi.
12. SymonLeslie : Agricultural Geography, G.Bell and Sons, Ltd, London, 1967.
13. प्रमिला कुमार : कृषि भूगोल, मध्य प्रदेश हिन्दी अकादमी।
14. सिंह, ब्रजभूषण : कृषि भूगोल, गोरखपुर

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# Raj Rishi Bhartrihari Matsya University, Alwar

## Syllabus-Geography M.A. Previous( Practical)

### Regular candidate /Non-collegiate

Laboratory Work

(Total 6 hrs.)

Distribution of Marks will be as follows :

- |   |          |
|---|----------|
| 1. Laboratory and Map Work Test (3 hrs.)<br>(5 problems out of 6 problems)                          | 50 Marks |
| 2. Record work and viva-voce (20+10)  | 30 Marks |
| 3. Research Project Report & viva-voce (15+5)<br>(Based on Socio – Economic Survey Report with PPT) | 20 Marks |

**Total 100 Marks**

Note : Record work of minimum 25 sheets must be prepared by students and checked & signed by teacher with date, otherwise students will be responsible. Students must write his/her name on every sheet. The teacher should give fresh exercise every year, so that the student may not undertake tracing of old exercise.

Examination to be conducted in batches of not more than 20 candidates in any case. 12 hours of teaching Practical be provided for a batch of 20 students per Week.

### Course Content :

Laboratory and Map Work:

1.The art and science of cartography, history of maps, materials; techniques and preparation of maps, Enlargement, Reduction and finding of area of maps, use of planimeter, Study of geologic maps and preparation of their section and interpretation, interpretation of weather maps and weather forecast.

### 2.Map projections (mathematical construction)

**Conical Projections:** Equal area with the one standard parallels & two standard parallels (Albert's Projections), Bonne's , Polyconic

**Cylindrical Projections:** Cylindrical Equal Area, Mercator's, Gall's Stereographic

**Zenithal Projections:** Gnomonic ; Polar Case

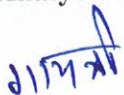
Stereographic, Orthographic: Polar Case

**Conventional Projections:** Sinusoidal, Mollweide, Interrupted Sanson Flemstead (Homolosine)

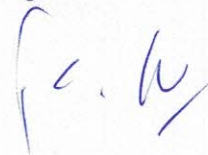
### 3. Climatic Diagrams :

Climograph – Taylor's / Foster's. Climatograph, Compound windrose, wind-star diagram. Rainfall dispersion diagram, water budget diagram.

### 4. Statistical Analysis :







Mean, median and mode, standard deviation, Coefficient of variation and Lorenz Curve, correlation – Spearman's & Carl Pearson's.

Quantitative Techniques : Theoretical basis of nearest neighbor analysis, practical exercise on nearest neighbor analysis, Network analysis, locational analysis of urban centers.

### 5. Maps and Diagrams :

Maps-Isopleths, choropleth, chorochromatic, isochrones and population potential surface maps, Sten-de-Geer's and Stillgen-Baur's method. Diagram-Population pyramids (all types), Value-area cartogram, Triangular diagram, Block & Sphere. (All these be computed from the statistical data, preferably based on district or tehsil unit areas)

### 6. Project Report :

A candidate is to prepare project report on socio-economic aspects of a village/ Town/ City within Rajasthan(Organizing a camp at least for five Days.) The project should be based on primary data obtained by the candidate. The data should be represented by suitable cartographic methods. The students will have to prepare a PPT(PowerPoint presentation) of their project along with the hard copy of their project report.

### Recommended Readings:

Dickinson, G.C. 1973: Statistical Mapping and Mapping Statistics, London. Khullar, D.R. 2000: Essentials of Practical Geography, New Academic Publishing Co., Jalandhar

Lawrence G.R.P. 1971: Cartographic Methods, Methuen, London.

Mahmood A. 1998: Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi.

Robinson, A.H. et al. 2004: Elements of Cartography, John Wiley & Sohs, Inc. New York (Sixth Edition)

Rampal, K.K. 1993: Mapping and Compilation: Methods and Techniques Concept Publishing Company, New Delhi (Reprint 2009)

Singh, R.L. and Singh RPB 1991: Elements of Practical Geography, Kalyani Publishers, New Delhi

Monikbosse, F.J. & Wilkinson, H.R. - Maps and Diagrams, B.I. Publication,

Toyne, P. & Peter - Techniques in Human Geography, Mc-Millan, London, 1976

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