

B.A. (Hons) Part – I Examination Geography

Paper	Duration	Max. Marks	Mini Marks
I	3 hrs.	80	128 (40%)
II	3 hrs.	80	
III	3 hrs.	80	
IV	3 hrs.	80	
Practical		80	32 (40%)

(For each batch of 20 students)

Total = 320+80=400, 128+32=160

Student will have to pass separately in theory and practical. A weekly seminar is to be arranged for all Hons. Classes.

PAPER-I : PHYSICAL BASIS OF GEOGRAPHY

3hr. duration

Max. Marks :

80

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 (15 marks) is compulsory and contains 10 questions (20 words), at least three questions from each unit, each question of 1.5 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 words).
4. Part-C-(45 marks) contains six questions. Two from each unit Candidate. Is required to attempt three questions one from each unit. Each question is of 15 marks (400 words)

Course Contents :

Unit – I

Definition of Physical Geography, Solar System, Origin of the earth ; Shape and size of the Earth, Motions of the Earth and its Satellite, Solar and Lunar eclipses, Physical and chemical state of the earth, structure and zones of the interior of the earth and Geological time scale.

Unit – II

Wegner's theory of continental drift : Theories of mountain building – Jolly. Kober and Holmes; Plate Tectonics; Isostasy; Earth movements; Diastrophic forces – Faults and folds; Sudden endogenetic forces; Earthquakes and Volcano. Rocks-their types and characteristic; Weathering and soil formation; Concept of cycle of Erosion- Davis and Penck; Landforms associated with Fluvial. Glacier, Aeolian and Coastal landscapes.

Unit – III

Composition and layers of atmosphere; Insolation and heat budget of the Earth : Temperature and Pressure : Atmospheric circulations- Planetary and local winds; Monsoon and Jet Stream; Air masses and fronts; Temperate and tropical cyclones: Types and distribution of Precipitation; Koppen's and Thornthwaite's classification of world climate; Hydrological cycles
Relief features of Atlantic, Indian and Pacific Oceans; Distribution of temperature and salinity in oceans; Ocean currents and tides; Marine deposits; Coral reefs and Atolls – Types and their origin according to Darwin. Murray and Daly; Marine resources- biotic, mineral and energy resources and their utilization.

Suggested Books:

1. Strahler, A.H. : Elements of Physical Geography.
2. Wooldridge, S.W.: The Physical Basis of Geography, Logman's Green & Co. London 1959.
3. Mathur. I.R. : Climatology, Mc. Graw Hill, New York.
4. Banerjee, H.C. & D.S. : Mosam Vigyan, Rajasthan Hindi Granth Academy Jaipur.
5. Gerald, S. : General Oceanography – An Introduction, John Willey & Sons, New York.
6. Finch & Trewarths : Elements of Physical Geography.
7. Negi : Physical Geography.
8. Sharma. R.C. : Oceanography for Geographers, Chaitanya Publishers, Allahabad.
9. सविन्द्र सिंह : भौतिक भूगोल—वसुन्धरा प्रकाशन, गोरखपुर।
10. वी.एस. चौहान एवं अलका गौतम : भौतिक भूगोल—रस्तोगी प्रकाशन, मेरठ।
11. सी.बी. मामोरिया एवं रतन जोशी : भौतिक भूगोल, साहित्य भवन पब्लिकेशन, आगरा।
12. आर.के. गुर्जर एवं वी.सी. जाट भौतिक भूगोल पंचशील प्रकाशन जयपुर।

PAPER-II : HUMAN GEOGRAPHY

3hr. duration

Max.Marks :

80

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 (15 marks) is compulsory and contains 10 questions (20 words), at least three questions from each unit, each question of 1.5 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 words).
4. Part-C-(45 marks) contains six questions. Two from each unit Candidate. Is required to attempt three questions one from each unit. Each question is of 15 marks (400 words)

Course Contents :

Unit – I

Definitions, nature, scope, development and history of human geography; Principles of Human Geography; Approaches of Human Geography; Elements of Human Geography – according to

Vidal de-la-Blache, Brunhes, Huntington : Branches of Human geography; Concepts of man-environment relationship. Concept of dualism in geography.

Division of races of mankind : spatial distribution, physical and social profile of racial groups. Ethnic groups. Tribal groups in the world and in India.

Unit – II

Early economic activities of mankind : food gathering, hunting, fishing and shifting cultivation. Human adaptation to environment (i) Cold Region – Eskimo; (ii) Hot, Region- Bushman, Pigmy, Badawins (iii) Plateau – Khirghiz, Masai, Gonds (iv) Mountain – Gujjars, Naga and Khasi (v) Plain-Bhil and Santhal, their Social and Economic activities and adaptation in modern society.

Distribution of population, world distribution pattern – physical, economic and social factors influencing spatial distribution; concepts of over population, under population and optimum population. Zero population growth; demographic transition theory.

Unit – III

Migration-internal and international, general laws of migration, Concept of Human Development, population regions of India; dynamic, prospective, depressed; Problem of overpopulation in India and its remedial measures. Population control programmes and population policy of India.

Settlement : Origin and types of settlements, Rural Settlement- Pattern of Rural settlements; House types and Building materials, Rural settlement in India. Urban settlement – Origin of towns; patterns of cities; functional classification of cities; zoning of cities; Christaller's theory; umland; urbanization and problems; Slums; Town planning – concepts and principles.

Suggested Books:

1. Bergman, Edward E : Human Geography; Culture, Connection and Land Scape, Prentice-Hall, New Jersey, 1995.
2. Carr, M : Patterns, Process and change in Human Geography, McMillan Education London, 1987.
3. Fellman, J.L. : Human Geography- Landscapes of Human Activities. Brown and Benchmark Pub., U.S.A. 1997.
4. De Blij H.J. : Human Geography, Culture, Society and Space, John Wiley, New York, 1996.
5. कौशिक : मानव भूगोल के सरल सिद्धान्त, रस्तोगी एण्ड कम्पनी, मेरठ ।
6. विश्वनाथ द्विवेदी एण्ड कनोजिया : मानव भूगोल के सिद्धान्त, किताब महल, इलाहाबाद ।
7. जोशी रतन : मानव एवं पर्यावरण, साहित्य भवन पब्लिकेशन, आगरा ।
8. कास्वॉ—मानव एवं पर्यावरण, मलिक प्रकाशन, जयपुर ।
9. गुर्जर. आर.के. एवं जाट बी.सी. : मानव भूगोल, पंचशील प्रकाशन, जयपुर ।

PAPER-III : GEOGRAPHY OF RAJASTHAN

3hr. duration

Max.Marks :

80

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 (15 marks) is compulsory and contains 10 questions (20 words), at least three questions from each unit, each question of 1.5 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 words).
4. Part-C-(45 marks) contains six questions. Two from each unit Candidate. Is required to attempt three questions one from each unit. Each question is of 15 marks (400 words)

Course Contents :

Unit – I

Rajasthan : Location; Physiographic Regions; Geological structure; Climate and Climatic regions: Drainage system and lakes; soil types and regions, erosion and conservation; Vegetation – types and distribution. Land utilization in Rajasthan : Agriculture-types and characteristics, production and distribution of food and commercial crops; Cropping pattern and Agro-climatic zones; Importance and sources of irrigation; Major irrigation projects-Chambal, Mahi and Indira Gandhi Canal Project (I.G.C.P.) Live Stock products and Dairy Development programmes; Biodiversity and Wildlife; Waste-land and desert development programmes.

Unit-II

Distribution and production of minerals – Metallic and Non-metallic; Power Resources – Coal, Petroleum and Natural gas; Power Resources as electricity-hydro based and non-conventional; Industrial Development : Classification of Industries; Development, distribution, production and locational analysis of cotton textile. Cement and stone industries; Cultural heritage and Tourism industry. Population : Distribution and density; Population structure- age and sex ratio, urban and rural, literacy and occupational population; Population growth since independence, causes problems and solutions, Social and Cultural status of major tribes-Bhil, Garassia, Meena, Saharia.

Unit – III

Means of transportation – roads, railway network and highways.

Detailed study of Marusthal, Aravalli, Hadoti and Eastern Plain regions with following heads : Physical environment, social and cultural environment and economic development.

Concept of Human Development – Major indicators. H.D.I. (Human Development Index) of Rajasthan in reference to other states of India.

Status of Women in Rajasthan – changing aspects of demographic, social.economic, health and nutrition.

Suggested Books :

1. चौहान वी.एस. राजस्थान का भूगोल, विज्ञान प्रकाशन, जोधपुर।
2. भल्ला एल.आर., राजस्थान का भूगोल, कुलदीप प्रकाशन, अजमेर।
3. एच.एम. सक्सेना, राजस्थान का भूगोल, राजस्थान हिन्दी ग्रन्थ अकादमी, जयपुर।
4. दिनेश चन्द शर्मा व पुष्पा शर्मा, राजस्थान आजतक।
5. एच.एस.शर्मा राजस्थान का भूगोल, पंचशील प्रकाशन, जयपुर।
6. Mishra, V.C.: Geography of Rajasthan, N.B.T.Delhi.

7. Sharma, H.S. & Sharma, M.L. : Geographical Fncts of Rajasthan.

PAPER-IV : ECONOMIC AND RESOURCE GEOGRAPHY

3hr. duration

Max.Marks :

80

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 (15 marks) is compulsory and contains 10 questions (20 words), at least three questions from each unit, each question of 1.5 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 words).
4. 4. Part-C-(45 marks) contains six questions. Two from each unit Candidate. Is required to attempt three questions one from each unit. Each question is of 15 marks (400 words)

Course Contents :

Unit – I

Meaning and scope of Economic Geography, concepts, geographical factors affecting economic activities, economic activities of man- primary, secondary and tertiary, types of agriculture and agricultural regions of world (wittelsee), production and distribution of important crops- Rice, Wheat, Maize, Cotton, Sugarcane, Tea, Coffee.

Unit – II

Important minerals and their world distribution – Iron ore, Copper, Aluminium, Uranium, Coal, Petroleum, Major manufacturing industries and their localization – Iron and steel and Textile Industrial regions of the world, world trade and transport. WTO and Globalization, its effect on developing contries.

Unit – III

Defination and classification of resources, reosource evaluation, Natural resources – Forest, Water and soil their distribution, exploitation and conservation biodiversity, marine resources – biotic resources and sustainable development, resource regions of the world.

Suggested Books :

1. Alexander, J.W. : “Economic Geography” Prentice Hall.
2. Jones and Darkenwald. “Economic Geography” Macmillan.
3. Miller E, : “Geography of Manufacturing” Prentice Hall.
4. सिंह के.एन. : आर्थिक भूगोल के मूल तत्त्व” वसुन्धरा प्रकाशन, गोरखपुर।
5. जैन पी : “आर्थिक भूगोल” रस्तोगी प्रकाशन, मेरठ।
6. मामोरिया सी.बी. : “आर्थिक भूगोल” साहित्य भवन पब्लिकेशंस, आगरा।
7. नेगी बी.एस. : संसाधन भूगोल।

GEOGRAPHY (HONS) PRACTICAL

Duration : 8 hrs.
80

Min. Pass Marks – 32

Max Marks :

Distribution of Marks for the purpose of Examination

1. Written paper (Lab work) (4 hour) (5 Prob. out of 6)	30 Marks
2. Record work and viva-voce (15+5) (1 hour)	20 Marks
3. Field Survey and viva-voce (10+5) (2 hour)	15 Marks
4. Camp report and viva-voce (10+5) (1 hour)	15 Marks
With PPT	Total
	80 Marks

Note : Minimum 30 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.

Course Contents :

1. The nature and scope of cartography, Scales – Plain, Diagonal and comparative – different units, time scale and Revolution Scale.
2. Enlargement, reduction and combination of maps – square method, Similar Triangle and Pantograph. Measurements of distance and computation of Area on maps.
3. Methods of representation of relief-Hachures, hill Shading, Layer tint, Contours etc. Relief features, types of slopes, valleys, waterfall, Gorge, meanders, delta, plateau, conical hill, Ridge, Saddle & Pass to be drawn, with the help of contours shown in topographical sheets of different physiographic regions, profile drawing.
4. Study of Topographical sheets – Scheme of Indian topo-sheets. Interpretation of a hilly and a plain area of India in respects of relief, drainage, Human settlement, Transport & Communication Pattern.
5. Climatic maps and diagrams – isopleths Maps (Isobar, Isotherms and Isohyts maps,) Simple and compound wind rose, climograph, hythergraph and climatograph, study & interpretation of weather maps of January & July months.
6. Prismatic Compass Survey – Importance, Appliances, Methods : Radiation, Intersection, Traverse (closed and open traverse) correction of bearings and removal of closing error-

Bowditch, graphical and mathematical method, Calculation of WCB, R.B. and calculation of included angles (CIA)

7. Six days socio-economic survey camp of any village/town within Rajasthan state. Report should be prepared by each student separately and should be submitted in the form of hardcopy or PPT.

Books Recommended

1. Singh R.L. : Elements of Practical Geography, Kalyani Publishers, New Delhi.
2. Monk House, F.J. and Wilkinson, H.R. : Map and Diagrams, Methuen London 1994.
3. Robinson, A.H. : Elements of Cartography, John Willey & Sons, New York.
4. Mishra, RP : Fundamental of Cartography, Macmillon, New Delhi.
5. Kellaway, Georgep : Man Projections, Mathuen& Co., London.
6. Steers, J.K. : Man Projections, University of London Press, London.
7. जे.पी. शर्मा : प्रायोगिक भूगोल, रस्तोगी प्रकाशन, मेरठ ।
8. एस.एम. जैन : प्रयोगिक भूगोल, साहित्य भवन, आगरा ।

B.A. (Hons) Part – II Examination

Geography

Paper	Duration	Max. Marks	Mini Marks
I	3 hrs.	80	128 (40%)
II	3 hrs.	80	
III	3 hrs.	80	
IV	3 hrs.	80	
Practical		80	32 (40%)

(For each batch of 20 students)

Total = 320+80=400, 128+32=160

Student will have to pass separately in theory and practical. A weekly seminar is to be arranged for all Hons. Classes.

PAPER-V : POLITICAL GEOGRAPHY

3hr. duration

Max. Marks :

80

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 (15 marks) is compulsory and contains 10 questions (20 words), at least three questions from each unit, each question of 1.5 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 words).
4. Part-C-(45 marks) contains six questions. Two from each unit Candidate. Is required to attempt three questions one from each unit. Each question is of 15 marks (400 words)

Course Contents :

Unit – I

Nature, History & development, Scope and significance of Political Geography; Political Geography and Geopolitics. Approaches to the study of political Geography – Morphological and Functional, Unified field Theory of S.B. Jones. Role of physical, demographic, economic and social factors in political geography.

Unit – II

State as a politico-territorial phenomenon. The changing value of locations. Size and shape in political geography of states. Organization of government over the national territory – unitary and federal. Boundaries and frontiers : Functions and classification of International boundaries, Capital and core areas.

Unit – III

Global strategic views – Mackinder, Spykman, De-seversky and Mahan, under development and international policies. North-South Dialogue and New international economic order. International economic order. International tensions-Identification of areas with special reference to West Asia and the Indian Ocean Region, Regionalism in International Relations, Nature & effects of international and national terrorism. Election Geography : Nature, approaches and importance, election in national perspective, voting behavior and voting system in India.

Suggested Books:

1. भट्टाचार्य एवं आच्छा : राजनैतिक भूगोल, राजस्थान हिन्दी ग्रंथ अकादमी।
2. सक्सेना, हरिमोहन : राजनैतिक भूगोल, रस्तोगी एण्ड कम्पनी, मेरठ।
3. Blij, H.J.De : Systematic Political Geog., John Willey & Sons, New York.
4. Dixit, R.D. : Political Geography : A contemporary perspective, Tata McGraw Hill, New Delhi.
5. Muir, R. : Modern Political Geography, McMillan, London.
6. Prescott, J.R.V. : Political Geography, Methuen & Co. London.
7. Taylor P. : Political Geography, Longman, London.

PAPER-VI : AGRICULTURAL GEOGRAPHY

3hr. duration
80

Max. Marks :

Note :-

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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 words).
4. Part-C-(45 marks) contains six questions. Two from each unit Candidate. Is required to attempt three questions one from each unit. Each question is of 15 marks (400 words)

Course Contents :

Unit – I

Nature, scope and significance of Agricultural Geography. Approaches to the study of Agricultural Geography – Commodity, Environmental, Systematic and Regional. Determinants of agricultural land use : Physical, Social, economic and cultural.

Unit – II

A critical review of Whittlesey's agricultural classification, agricultural types – their characteristics and distribution in the world. Patterns of land use with special reference to India.

Agricultural of U.S.A., China & India. Agro and social forestry; Green and blue revolution in India.

Unit – III

Agricultural statistics and their mapping; agricultural regionalization – concept, methods of delimitation; Traditional and statistical methods; Crop-ranking; Crop-combination regions; Weaver’s crop-diversification, concentration methods .

Agricultural Efficiency –concept and methods of measurements, Nutrition and food balance sheet, crop-pattern and deficiency disease.

Suggested Books :

1. Gregor, H.F. : Geography of Agriculture – Themes in Research, Prentice Hall inc. London.
2. Hartshorn & Alexander : Economic Geography, Prentice Hall of India (EEE), New Delhi.
3. Hussain M. : Agricultural Geography, Inter-India Publications, New Delhi.
4. Singh & Dhillon : Agricultural Geography, Tata McGraw Hill, New Delhi.
5. Symons, L. : Agricultural Geography, G.Bell & Sons, London.
6. Tewari, P.S. (Ed) : Contribution to Agriculture, Themes in Heritage, Delhi.
7. Whittlesay, D.S. : Major Agricultural Regions of the Earth, A.A.A.G. Vol. 26.
8. Shafi, M. : Land use in Eastern U.P., A.M.U. Press, Aligarh (U.P.)

PAPER-VII : BIO-GEOGRAPHY

3hr. duration
80

Max. Marks :

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
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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 words).
4. 4. Part-C-(45 marks) contains six questions. Two from each unit Candidate. Is required to attempt three questions one from each unit. Each question is of 15 marks (400 words)

Course Contents :

Unit – I

Definition, scope and significance of Bio-Geography; its relation to other sciences; Basic ecological principles; Bio-energy cycle in the terrestrial eco-system; energy budget of the earth; Trophic levels, food chain and food webs; Darwin's Theory of Evolution; concepts of Biome; Ecotone and community.

Unit-II

Origin and extinction of Fauna and Flora : Geographical distribution, major gene centre, domestication of plants and animals; Migration and dispersal, distribution of plant life (Floristic realms) on the earth and its relation to soil types, climates and human practices.

Geographical distribution of animal life (zoo geographical realms) on the earth and its relation of vegetation types, climate and human practices.

Biodiversity-definition, types, value, various levels, Hotspots, threats & conservation of biodiversity.

Unit – III

Problem of pollution - types of pollution, water pollution in river Ganga, Environmental degradation and consequences, its effects on major plants and animal life; study of Mangrove, tropical rainforest and mountain, Bio-geographical regions of India in relation to their plant and animal life, problems, conservation and management.

Suggested Books :

1. Robinson M.H. : Bio Geography, E.L.B.S. McDonal Evans, London.
2. Symmons, I.G. : Bio-geographical Processes, George Allen and Unwi, London.
3. Berry, C. : Biogeography – An ecological and Evolutionary Approach, Cox Blackwell, Oxford, 1977.
4. Joy, T. : Biogeography – A Study of Plants in 1971 the Ecosphere, Oliver and Boyd. Edinburgh.
5. Mathur, H.S. : Essentials of Bio Geography, Jaipur.
6. Seddon, B : Biogeography, Duckworth, London, 1971.
7. Martin, C. : Plant Geography, Mathuen, 1975.
8. Philip,J. : Zoo Geography- The Geographical Distribution of Animals, John Willey, New Yourk, 1957.
9. कुलश्रेष्ठ, के.पी. जैव भूगोल, किताब घर, कानुपर।
10. जोशी रतन : जैव भूगोल एवं जैव विविधता, राजस्थान हिन्दी ग्रन्थ अकादमी, जयपुर।

PAPER-VIII : STATISTICAL METHODS IN GEOGRAPHY

3hr. duration

80

Max. Marks :

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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 words).
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Course Contents :

Unit – I

Nature, scope and significance of the statistical techniques in geography. Data – types, sources, collection, editing tabulation and classification. Frequency distributions, characteristics of frequency distribution : Number of classes, class interval; Types of frequency graphs – histogram; frequency polygon and frequency curve. Measures of central tendency-arithmetic, harmonic and geometric mean; median, quartile and mode.

Unit – II

Measures of variations of dispersion – range, quartile deviation, mean deviation, standard deviation; Lorenz curve; Normal curve; Relative variation; measures of Skewness; Kurtosis. Methods of Correlation – Graphical, Spearman’s Rank, Carl Pearson’s.

Unit – III

Regression line and confidence limits; Methods of interpolation and extrapolation, index number.

Suggested Books

1. Aslam, Mahmood : Statistical Methods in Geographical Studies, Rajesh Publication, Delhi 1977.
2. Duncan, C.D. et.al : Statistical Geography C. Problems in Analysis Areal Data, Free of Gleneo, New York, 1961.
3. Gregory, S. : Statistical Methods and the Geographer, Longman’s London, 1963.
4. King, L.J.: Statistical Analysis in Geography, Prentice Hall, Englewood Cliff, N.J.
5. Lewis Peter : Maps and Statistics, Methuen & Co.Ltd., London, 1977.
6. Norchiffe, : Inferential Statistics for Geographers, Kalyani Publishers, New Delhi, 1979.
7. Yeats Mauries, : An Introduction to Quantitative Analysis in Economic Geography, McGraw Hill, New York. 1968

GEOGRAPHY (HONS.) PRACTICAL

Duration : 8 hrs.
80

Min. Pass Marks – 32

Max Marks :

Distribution of Marks for the purpose of Examination

1. Written paper (Lab work) (4 hour) (5 Prob. out of 6)	30 Marks
2. Record work and viva-voce (15+5) (1 hour)	20 Marks
3. Field Survey and viva-voce (10+5) (2 hour)	15 Marks
4. Camp report and viva-voce (10+5) (1 hour)	15 Marks
Total	80 Marks

Note : Minimum 30 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.

1. Types and uses of cartographic symbols – point, line and area symbols, classification of distribution maps.
2. Representation of population data – distribution (dot), density (choropleth), growth (ring), age and sex-composition (Pyramid-simple, superimposed and compound), urban & rural population (dot & circle, dot & sphere).
3. Agriculture data – land use (divided circle), production (square and rectangle), irrigated area as percent to total cropped area (choropleth), distribution (dot and symbols).
4. Industrial data – Production and trade (Polyline graph, Bandgraph, Blok pile, Bar-simple, compound and multiple), Transport data – traffic flow diagram.
5. Plane table survey – Radiation, intersection, traversing, resection (two and three pint problems), Mechanical Method, Llano's, Bassel's, Trial and error.
6. Indian clinometer – Its parts, methods and determining the height of distant points.
7. Six days Environmental Issues Camp of any village/ town/ City in Rajasthan state. Report should be prepared by each student separately and should be submitted in the form of hardcopy or PPT.

Books Recommended

1. Monkhouse E.J. : Maps and diagrams, Methuen Co. London.
2. Robinson, A.H. : Maps and diagrams, John Willey & Sons, New York.
3. Mishra R.P. : Fundamental of Cartography, MacMilon, New Delhi.
4. Singh R.L. : Elements of Practical Geography, Kalyani Publishers, New Delhi.
5. जे.पी. शर्मा : प्रायोगिक भूगोल, रस्तोगी प्रकाशन, मेरठ ।
6. एम.एस.जैन : प्रायोगिक भूगोल, साहित्य भवन, आगरा ।

B.A. (Hons) Part – III Examination

Geography

Paper	Duration	Max. Marks	Mini Marks
I	3 hrs.	80	128 (40%)
II	3 hrs.	80	
III	3 hrs.	80	
IV	3 hrs.	80	
Practical		80	32 (40%)

(For each batch of 20 students)

Total = 320+80=400, 128+32=160

Student will have to pass separately in theory and practical. A weekly seminar is to be arranged for all Hons. Classes.

PAPER-IX : EVOLUTION OF GEOGRAPHICAL THOUGHT & METHODOLOGY

3hr. duration

Max. Marks :

80

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 (15 marks) is compulsory and contains 10 questions (20 words), at least three questions from each unit, each question of 1.5 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 words).
4. Part-C-(45 marks) contains six questions. Two from each unit Candidate. Is required to attempt three questions one from each unit. Each question is of 15 marks (400 words)

Course Contents :

Unit – I

The nature of geography : meaning & definitions, philosophy and recent trends in geography; Objectives and relevance of geography; place of geography in the classification of sciences – natural and social sciences and relations with other social sciences; Elements of geography : location on the surface of the earth, physical conditions; forms of life and human responses; Development of modern geography in India.

Geography of Vedic age and Geography of Puranas – Dwipa and Ocean, River and Mountain systems; Ancient classical Geography – Contribution of Greek and Roman – with special reference to the work of Herodotus, Eratosthenes, Posidonius, Strabo and Ptolemy; Early. Medieval Geography and contribution of Arab Geographers. Late medieval Geography – age of travels, exploration and discoveries.

Unit – II

German School of Geography – Contribution of Kant, Varenus, Humboldt, Ritter, Ratzel and Richthofen; School of French Geography – contribution of Blache and Brunhes; British and American School of Geography – contribution of Mackinder, Herbertson, Miss Semple, Carl Saur; Huntington and Davis. Man-environment relationships – Determinism, possibilism and neo-determinism: Dualism in Geography – Physical and human, systematic and regional; Quantitative revolution in geography; Major Concepts in Geography – terrestrial unity and interconnections, region and types of regions, culture and acculturation, Spatial distribution, interaction and organization, Areal differentiation; Behavioral geography, Humanistic and Welfare geography.

Unit – III

Methodology: Meaning & definition, Objectives and recent development; Data : Types, sources. Collection and tabulation: Cartographic and Quantitative methods : Map making and mapping techniques : Models and analogues : Hypothesis – meaning & need. Regional delimitation and quantitative analysis.

Books Recommended :

1. जैन, एस.एम. : भौगोलिक चिन्तन का विकास, साहित्य भवन, आगरा।
2. कौशिक, एस.डी. : भौगोलिक विचारधारा एवं विधि तंत्र, रस्तोगी प्रकाशन, मेरठ।
3. सिंह यू. : भौगोलिक चिन्तन के मूलाधार, वसुन्धरा प्रकाशन, नई दिल्ली।
4. जाट, बी.सी. : भौगोलिक विचारधाराएँ एवं विधि तन्त्र, मलिक एण्ड क. जयपुर।
5. वर्मा, एल.एन. एवं खत्री, एल.सी. : भौगोलिक विचारधाराएँ, राज. हिन्दी ग्रन्थ अकादमी।
6. Dickinson & Howrath : Making of Geography.
7. Hartshorne R. : The Nature of Geography, AAAG.
8. Hartshorne R. : Perspective of the nature of Geography, John Murray, London.
9. Jones & Jones (Ed.) % American Geography Inventory and Prospects Syracuse.
10. Taylor, G. (Ed.) : Geography in the Twentieth Century.
11. Woolridge & East : Spirit and purpose of Geography.
12. Ali, S.M. : Georaphy of Puranas, PPH, Delhi.

PAPER-X : GEOGRAPHY OF INDIA

3hr. duration

80

Max. Marks :

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 (15 marks) is compulsory and contains 10 questions (20 words), at least three questions from each unit, each question of 1.5 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 words).
4. Part-C-(45 marks) contains six questions. Two from each unit Candidate. Is required to attempt three questions one from each unit. Each question is of 15 marks (400 words)

Course Contents :

Unit – I

India in the context of the South-East and South Asia; India : A land of diversities; unity within diversities. Major terrain elements of India and their role in shaping physical landscape of India. drainage systems. Regional and seasonal variation of climate – The monsoon, Western disturbance, Norwesters, Climatic regions of India.

Soil types – their distribution and characteristics, vegetation types and their distribution. Forest – The status of their use and need for conservation.

Unit – II

Agriculture, irrigation and multipurpose project. Geographical conditions, distribution and production of wheat, rice, sugarcane, cotton, jute, tobacco, coffee, tea; Live stock, Horticulture and Dairy products in India; Fisheries.

Resources : minerals – iron-ore, mica, manganese and sources of power-coal, petroleum, hydropower, atomic energy, Resource Regions of India; Composition of domestic and international trade; Transportation – railways, road, air and water.

Unit – III

Changing nature of Indian economy – Agricultural growth during the plan period; Green revolution vis-à-vis traditional farming; regionalization of Indian agriculture, Agricultural regions and its relevance in agricultural development planning. Spatial distribution of population and density; Socio economic implications of population explosion, urbanization and gender discrimination. Basis of regional planning, planning division of India-macro and meso.

Suggested Books :

1. चौहान एवं गौतम : भारत, रस्तोगी एण्ड कम्पनी, मेरठ।
2. चौहान टी.एस. : भारत का भूगोल, विज्ञान प्रकाशन, जयपुर।
3. वी.के.तिवारी : भारत का वृहत् भूगोल, हिमालय पब्लिकेशन।
4. मामोरिया एवं जैन : भारत का वृहत् भूगोल, साहित्य भवन, आगरा।
5. सुरेश चन्द्र बंसल : भारत का वृहत् भूगोल।
6. Govt. of India : India (Latest Ed.) G.O.I. Publication Division, New Delhi.
7. Times of India : India Year Book (Latest) T.O.I. Press, New Delhi.
8. Sharma & Coutinho : Economic and Commercial Geography of India, Vikad, Delhi.
9. Singh, R.L. & Associates (Ed.): India – A Regional Geography, NGS, Varanasi.
10. Spate, O.H.K. : India and Pakistan : Methues & Co.
11. Sdasyuk, G. and Sengupta, P. : Economic Regionalisation of India, G.O.I., New Delhi.
12. Wadia, D.N. : Geology of India. McMillan & Co. Delhi.

PAPER-XI : URBAN GEOGRAPHY

3hr. duration

Max. Marks :

80

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 (15 marks) is compulsory and contains 10 questions (20 words), at least three questions from each unit, each question of 1.5 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 words).
4. Part-C-(45 marks) contains six questions. Two from each unit Candidate. Is required to attempt three questions one from each unit. Each question is of 15 marks (400 words)

Course Contents :

Unit – I

Nature and scope of urban geography, Factors affecting origin and growth of towns during Ancient, Medieval and modern Period, Site and Situation, Definition and criteria of urban centre, Chief characteristics of Modern town – Metropolis, Conurbation, Megalopolis, Trends of Urbanization – World and India (since 1901).

Unit-II

Functional classification of cities, Urban Hierarchy based on functions, Central place theory, Rank size relationship, Theories of urban growth. Morphology of Indian cities, Urban Land use – commercial, Industrial and residential areas.

Unit – III

Contemporary urban issues and problems, Urban policies. City region Relationship : Umland, Rural-Urban fringe, satellite towns, suburbs, green belt and garden city, Principles of town planning, Master Plan ,Smart city.

Suggested Books :

1. Carter : The Study of Urban Geography, Edward Arnold, London.
2. Johnson, J.H. : Urban Geography, Pergamono Press, London.
3. Mayer &Cohn : Readings in Urban Geography, Central Books Depot., Allahabad.
4. Smailes, A.E. : The Geography of Town : hut Chinson, London.
5. Sovani, N.V. :Urbanisation and Urban India, Asia Publishing House.
6. Taylor, G. : Urban Geography, Methuen & Co., London.
7. Turner, R. : India's Urban Future, University Press, Bombay.
8. जोशी,रतन : नगरीय भूगोल, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।
9. बंसल एस.सी. : नगरीय भूगोल।

PAPER-XII :REGIONAL GEOGRAPHY

3hr. duration
80

Max. Marks :

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 (15 marks) is compulsory and contains 10 questions (20 words), at least three questions from each unit, each question of 1.5 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 words).
4. Part-C-(45 marks) contains six questions. Two from each unit Candidate. Is required to attempt three questions one from each unit. Each question is of 15 marks (400 words)

Course Contents :

Unit – I

Concept of region, delimitation methods, types of regions.

China - relief, drainage, climate, natural vegetation, soils, minerals, Agriculture Industries, Industrial region and population.

United Kingdom - relief, drainage, climate, natural vegetation, soils, minerals, Agriculture Industries, Industrial region and population.

Unit – II

United States of America - relief, drainage, climate, natural vegetation, soils, minerals, Agriculture Industries, Industrial region and population.

Brazil - relief, drainage, climate, natural vegetation, soils, minerals, Agriculture Industries, Industrial region and population.

Unit – III

South Africa - relief, drainage, climate, natural vegetation, soils, minerals, Agriculture Industries, Industrial region and population.

Australia - relief, drainage, climate, natural vegetation, soils, minerals, Agriculture Industries, Industrial region and population.

Suggested Books

1. Cole, J. "A Geography of the Worlds Major Regions" Routledge, London.
2. Debliz H. : "Geography : Regions And Concept"
3. Minshul Roger, "Regional Geography."
4. Cressey G.B. : "Geography of China"
5. Stamp L.D., "Africa" John Wiley, New York.
6. सिंह एवम् राव, "तीन दक्षिणी महाद्वीप" वसुन्धरा प्रकाशन।
7. लालबी : "उत्तरी अमेरिका का भूगोल"
8. मामोरिया, : "प्रादेशिक भूगोल"

GEOGRAPHY (HONS) PRACTICAL

Duration : 8 hrs.

Min. Pass Marks – 32

Max Marks :

Distribution of Marks for the purpose of Examination

1. Written paper (Lab work) (4 hour) (5 Prob out of 6)	30 Marks	
2. Record work and viva-voce (15+5) (1 hour)	20 Marks	
3. Field Survey and viva-voce (10+5) (2 hour)	15 Marks	
4. Camp report and viva-voce (10+5) (1 hour)	15 Marks	
With PPT	Total	80 Marks

Note : Minimum 30 sheets must be prepared by students and checked & signed by teacher with date, otherwise students will be responsible. Students miswrite 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.

Every year, so that the students may not undertake tracing of old exercise.

1. Projection – General principles, classification and choice of projections, construction, properties, merit and demerits, limitations and use of projection, Projections suitable for map of India.
2. Cylindrical : Simple, equal area, Gall’s and Mercator’s projection. Zenithal (Polar case) : Equidistant; Equal Area, Gnomonic, Orthographic, Stereographic. Conical : One standard parallel, two standard parallels, Bonne’s and Polyconic, Conventional : Mollweide’s, Sinusoidal, Globular and international projection.
3. Statistical methods – computation of data, Preparation of frequency tables, Graphical presentation of frequencies distribution – histogram, frequency polygon, frequency curve and o-give. Mean, Median and Mode, Quartile, Standard deviation, Lorenz curve. Calculation of coefficient of correlation (Spearman’s and Carl Person’s)
4. Diagram – Value-area cartogram, Triangular diagram, Ergograph – simple and Ogilvie’s Rainfall dispersion diagram.
5. Levelling : Terms, types, principles and classification of leveling, profiles and other leveling. Use and application of Dumpy level and Abney level.
6. Remote sensing and GIS: Use and importance of air photos; Historical development, space programmes in India; GIS-meaning, definition, importance and its applications.
7. Six days Industrial Survey Camp of any village/town in Rajasthan state. Report should be prepared by each student separately and should be submitted in the form of hardcopy or PPT.

Books Recommended

1. Kellaway, Georgep : Map Projections, Mathuen & Co., London.

2. Steets, J.K. : Map Projections, University of London Press, London.
3. Singh R.L. : Elements of Practical Geography, Kalyani Publishers, New Delhi.
4. जे.पी. शर्मा : प्रायोगिक भूगोल, रस्तोगी प्रकाशन, मेरठ ।
5. एम.एस.जैन : प्रायोगिक भूगोल, साहित्य भवन, आगरा ।