

Semester-V

Instruction to Question Setter for End Semester Examination (ESE): *There will be two groups of questions. Five Questions to be answered out of Nine Questions. Group A is compulsory and will contain two questions. Question No.1 (A) will be MCQ of 1 mark each (six questions). Question No.1 (B) will be short answer type to be answered in about 50 words of 3 marks (2 Questions). Group B will contain descriptive type eight questions of twelve marks each, out of which any four are to answer. Each question carries 12 marks*

		Mid Semester			End Semester		Grand Total
		Written	Attendance	Total	Theory	Distribution of Marks	
1	Full Marks	10	05	15	60	5x12	60+15=75
2	Pass Marks	04	02	06	24	-	30

	No. of Questions to be set-			09 (Nine)
	Structure of Question	No. of Questions	Distribution of Marks	Total Marks
(A)	Group A is compulsory and will contain two questions. Question No.1 (A) will be MCQ of 1 mark each (six questions). Question No.1 (B) will be short answer type to be answered in about 50 words of 3 marks (2 Questions).	1(A)- 6	1(A)- 6x1=6	12
		1(B)- 2	1(B)- 2x3=6	
(B)	Group B will contain descriptive type eight questions of twelve marks each, out of which any four are to answer. Each question carries 12 marks.	4	4x12	48
Total				60

GEOG-H-C- 511-T	HUMAN GEOGRAPHY	(04 Credits, 60 Lectures) FM: 75 (60+15)
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Module I:

Meaning, nature and scope of Human Geography, Man- Environment relationships: Determinism, Possibilism, Probabilism, and Environmentalism.

Module II:

Evolution of man, Classification of races, Characteristics of races and their broad distribution, Human adaptation to environment: Eskimo, and Bushman, Primitive people of Jharkhand: Santal, and Oraon.

Module III:

Growth of population; Distribution of population; Major human agglomerations; Types of Migration; Trends of Urbanization.

Module IV:

Rural settlements: types and pattern, Urban settlements: evolution and classification.

Books Recommended:

- Johnston R; Gregory D, Pratt G. et al. *The Dictionary of Human Geography*, Blackwell Publication.
- Kaushik, S.D., *Manav Bhugol*, Rastogi Publication, Meerut.
- Maurya, S.D., *Manav Bhugol*, Sharda Pustak Bhawan. Allahabad.
- Hussain, Majid, *Manav Bhugol*, Rawat Publications, Jaipur.
- Garg, H. S., *Manav Bhugol*, Rajesh Publications, New Delhi.
- Chandna, R.C., *Population Geography*, Kalyani Publisher.
- Hassan, M.I., *Population Geography*, Rawat Publications, Jaipur
- Daniel, P.A. and Hopkinson, M.F., *The Geography of Settlement*, Oliver & Boyd, London.

GEOG-H-C- 512-T	ECONOMIC GEOGRAPHY	(04 Credits, 60 Lectures) FM: 75 (60+15)
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Module I:

Meaning and approaches to economic geography, Resource: concept and classification; Resource conservation.

Module II:

Natural resources: soil and forest, Mineral resources: iron ore and bauxite; Power resources: coal and petroleum; Principal crops: wheat and rice.

Module III:

Agricultural regions of the world (Derwent Whittlesey), Major industries: iron and steel, and cotton textiles.

Module IV:

World transportation: major trans-continental railways, and sea routes, WTO and International trade: patterns and trends.

Books Recommended:

- Singh, Satnam, *Aarthik Bhugol*, University Prakashan, New Delhi.
- Singh, Kashi Nath, and Sing, Jagdish, *Aarthik Bhugol Ke Mool Tatva*, Gyanoday Prakasa.
- Maurya, S. D., *Sansadhan Bhugol*, Pryag Pustak Bhawan, Allahabad.
- Gautam, Alka, and Kaushik, S. D., *Sansadhan Bhugol*, Rastogi Publications, Meerut.
- Alexander J. W., *Economic Geography*, Prentice-Hall Inc., Englewood Cliffs, New Jersey.
- Coe N. M., Kelly P. F. and Yeung H. W., *Economic Geography: A Contemporary Introduction*, Wiley-Blackwell.
- Hodder B. W. and Lee Roger, *Economic Geography*, Taylor and Francis.
- Combes P., Mayer T. and Thisse J. F., *Economic Geography: The Integration of Regions and Nations*, Princeton University Press.
- Wheeler J. O., *Economic Geography*, Wiley.

GEOG-H-C-511 & 512-P	PRACTICAL INTERPRETATION OF TOPOGRAPHICAL SHEETS	(04 Credits, 120 Lectures) FM: 50 (40+10)
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A) Introduction to Survey of India (SOI) toposheets, marginal information, grid reference, conventional signs and symbols, Principles of toposheet numbering as followed by Survey of India, Reading of at least three SOI toposheets one each for plain, plateau and mountainous/hilly region, on toposheet of 1:50,000 scale.

10 Marks

B) Drawing and analysis of profiles and transect chart with interpretation.

10 Marks

C) One day field excursion for orientation of toposheet, observation and identification of geographical features and preparation of a brief report.

20 Marks

D) PNB+ Viva-Voce.

5+5=10 Marks

Books Recommended:

- Sharma, J. P., *Prayogik Bhugol*, Rastogi Prakashan, Meerut.

- Singh, L. R., *Prayogik Bhugol Ke Mool Siddhant*, Sharda Pustak Bhawan, Allahabad.
- Singh and Singh, *Elements of Practical Geography*, Kalyani Publishers, New Delhi.
- Chauhan, R. P., *Ramsurat, Prayogatmak Bhugol Ki Rooprekha*, Vasundhara Prakashan, Gorakhpur.
- Sinha evam Bala, *Uchh Cartography*, Sharda Pustak Bhawan, Allahabad.
- Sarkar, Ashish, *A Practical Geography*, Orient Blackswan Private Limited, New Delhi.
- Saha, P., *Advanced Practical Geography*, Orient Blackswan Private Limited, New Delhi.

GEOG-H-DSE- 501 A/501 B/501 C-T	(501 A) POPULATION GEOGRAPHY OR (501 B) SETTLEMENT GEOGRAPHY OR (501 C) URBAN GEOGRAPHY (Choice to choose any one)	(04 Credits, 60 Lectures) FM: 75 (60+15)
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501 A- POPULATION GEOGRAPHY

Module I:

Nature and scope of Population Geography, Sources and types of population data.

Module II:

World Population: growth, causes and consequences, Factors affecting population distribution, Migration: types and determinants, Urbanization: trends and pattern.

Module III:

Population dynamics: age and sex structure, occupational structure, Demographic Transition Theory, Human Resource Development: indicators and patterns.

Module IV:

INDIA- Population growth, Distribution of population, Population problems, Population Policy.

Books Recommended:

- Maurya, S. D., *Population Geography*, Prawalika Publication, Allahabad.
- Chandana, R. C., *Jansankhya Bhugol*, Kalyani Publishers, New Delhi.
- Tripathi, R. D., *Jansankhya Bhugol*, Vasundhara Prakashan, Gorakhpur.
- Sahoo, H. (ed.) *Population Issues*, Rawat Publication, New Delhi.
- Tiwari, Ram Kumar, *Jansankhya Bhugol*, Prawalika Publication, Allahabad.
- Unisa, S., *Population Health and Environment*, Rawat Publication, New Delhi.
- Mukherjee, *Migration in India: Urbanization, Regional Disparities*, Rawat Publication, New Delhi.

501 B- SETTLEMENT GEOGRAPHY

Module I:

Meaning, scope and significance of settlement Geography, Its relationship with other subjects. Evolution of human settlement, Distribution, pattern and types of rural settlements of India.

Module II:

Morphological structure of cities, Functional classification of urban centers, Hierarchy of rural settlements, Contemporary urban issues: rural – urban fringe, urban sprawl, slums.

Module III:

Functional typology of villages: social, economic, cultural factors influencing the dynamics of settlement structure, Central place theory of Christaller and Losch and their application to settlement Hierarchy.

Module IV:

Interface between human settlement and environment, Transformation and planning of Indian villages. Hilly settlement, plateau settlement, plains settlement and sea beach settlement in India.

Books Recommended:

- Bose A., *India's Urbanization 1947-2000*, Tata McGraw Hill, New Delhi.
- Chisholm, M., *Rural Settlements and Land Use*, Hutchinson, London.
- Clout, R. D., *Rural Geography*, Pergamon Press, London.

- Dickenson, R. E., *City, Region and Regionalism*, Kegan Paul Trench Trubner & Co. London.
- Krishnan, G., *Nagar Bhugol*, Punjab State University Text Book Board, Chandigarh (Punjab).
- Misra, H. N. (ed), *Rural Geography*, Heritage Publishers, New Delhi.
- Mukherji, R. K., *Man and his Habitation*, Popular Books, Bombay.
- Singh R. L., *Readings in Rural Settlement Geography*, Banaras Hindu University, Department of Geography, Varanasi.
- Turner Roy(ed), *India's Urban Future*, Oxford University Press, Bombay.
- Maurya, S. D. and Kumar, Praveen., *Adhivas Bhugol*, Sharda Pustak Bhawan, Allahabad.

501 C- URBAN GEOGRAPHY

Module I:

Meaning and scope of Urban Geography, Recent trends in Urban Geography, Development of Urban Geography in India.

Module II:

Meaning of city, characteristics of cities in different historical period with special reference to India, Functional classification of towns, Form and development of towns in ancient, medieval and modern period.

Module III:

Problems of modern towns, specialty and models: size and spacing of cities, Rank size rule, law of primate city, nearest neighbor analysis, city region.

Module IV:

Urban issues and problems- environmental, urban poverty, slums, transportation, housing, crime.

Planned city, metropolis, master plan, new trends in urban planning with particular reference to India.

Books Recommended:

- Fyfe N. R. and Kenny J. T., *The Urban Geography Reader*, Routledge.
- Graham S. and Marvin S., *Splintering Urbanism: Networked Infrastructures, Technological Mobilities and the Urban Condition*, Routledge.

- Hall T., *Urban Geography*, Taylor and Francis.
- Kaplan D. H., Wheeler J. O. and Holloway S. R., *Urban Geography*, John Wiley.
- Knox P. L. and McCarthy L., *Urbanization: An Introduction to Urban Geography*, Pearson Prentice Hall New York.
- Knox P. L. and Pinch S., *Urban Social Geography: An Introduction*, Prentice-Hall.
- Pacione M., *Urban Geography: A Global Perspective*, Taylor and Francis.
- Sassen S., *The Global City: New York, London and Tokyo*, Princeton University Press.
- Ramachandran R., *Urbanisation and Urban Systems of India*, Oxford University Press, NewDelhi
- Ramachandran, R., *The Study of Urbanisation*, Oxford University Press, Delhi
- Singh, R.B. (Eds.), *Urban Sustainability in the Context of Global Change*, Science Pub Inc., Enfield (NH), USA and Oxford & IBH Pub., New Delhi.
- Singh, R.B. (Ed.) *Urban Development, Challenges, Risks and Resilience in Asian megacities. Advances in Geographical and Environmental Studies*, Springer.

GEOG-H-DSE- 502 A/502 B/502 C-T	(502 A) AGRICULTURAL GEOGRAPHY OR (502 B) SOIL GEOGRAPHY OR (502 C) INDUATRIAL GEOGRAPY (Choice to choose any one paper)	(04 Credits, 60 Lectures) FM: 75 (60+15)
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502 A- AGRICULTURAL GEOGRAPHY

Module I:

Meaning and scope of Agricultural Geography, Approaches to Agricultural Geography.

Module II:

Crop concentration and crop diversification, Agricultural regions of the world, Detailed study of subsistence, plantation, commercial and mixed farming.

Module III:

Agricultural land-use and carrying capacity, Land use pattern with special reference to India.

Module IV:

Agro-climatic regions of India, Green Revolution in India, Agricultural planning and policies in India.

- Buckman, H.R. and Brady, N.C., *Nature and Properties of Soil*, McMillan, New York.
- Bunting, A., *Geography of Soil*, Hutchinson, London.
- Daji, J.A., Kadam, J.R. and Patil, N.D., *A Textbook of Soil Science*, Media Promoters and Publishers Pvt Ltd, Mumbai.
- Fitzpatrick, E.A., *Soils, Their Formation, classifications and Distribution*, ELBS/ Longman, London.
- Foth, H.D. and Schafer, J.W., *Soil Geography and Land Use*, John Wiley, New York.
- Joffe, J.S., *ABC of Soil*, Oxford Book Co., Kolkata.

502 C- INDUSTRIAL GEOGRAPHY

Module I:

Meaning and scope of Industrial Geography, Industrialization, Concept of industrial revolution.

Module II:

Factors of industrial location, Theories of industrial location: Weber and Lösch.

Module III

Distribution, growth, production trends and problems of: iron and steel, cotton textile industries, Role of industries in regional development.

Module IV:

Concept and methods of industrial regionalization, Major industrial regions of the world.

Books Recommended:

- Alexanderson, C., *Geography of Manufacturing*, Prentice-Hall of India, New Delhi.
- Hoover, E. M., *Location and Space Economy*, McGraw Hill, New York.
- Lodha, R. M., *Audyogika Bhoogol*, Rajasthan Hindi Granth Academy, Jaipur.
- Miller, E., *A Geography of Manufacturing*, Prentice-Hall, Englewood Cliffs, New Jersey.
- Riley, R. C., *Industrial Geography*, Chatto and Windus Ltd. London.
- Singh, M. B., *New Perspectives in Industrial Geography*, Lotus Publication, Varanasi.
- Singh, M. B., *Industrial Geography*, Lotus Publication, Varanasi.

SEMESTER-V

Instruction to Question Setter for End Semester Examination (ESE):

There will be two groups of questions. Five Questions to be answered out of Nine Questions. Group A is compulsory and will contain two questions. Question No.1 (A) will be MCQ of 1 mark each (six questions). Question No.1 (B) will be short answer type to be answered in about 50 words of 3 marks (2 Questions). Group B will contain descriptive type eight questions of twelve marks each, out of which any four are to answer. Each question carries 12 marks.

		Mid Semester			End Semester		Grand Total
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2	Pass Marks	04	02	06	24	-	30

		No. of Questions to be set- 09 (Nine)		
	Structure of Question	No. of Questions	Distribution of Marks	Total Marks
(A)	Group A is compulsory and will contain two questions. Question No.1 (A) will be MCQ of 1 mark each (six questions). Question No.1 (B) will be short answer type to be answered in about 50 words of 3 marks (2 Questions).	1(A)- 6	1(A)- 6x1=6	12
		1(B)- 2	1(B)- 2x3=6	
(B)	Group B will contain descriptive type eight questions of twelve marks each, out of which any four are to answer. Each question carries 12 marks.	4	4x12	48
Total				60

GEOG-G-DSE- 501A-T	ENVIRONMENTAL GEOGRAPHY OR POPULATION GEOGRAPHY	(04 Credits, 60 Lectures) FM: 75 (60+15)
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ENVIRONMENTAL GEOGRAPHY

Module I:

Meaning and importance of Environmental Geography, Concept of environment.

Module II:

Meaning of Ecology and Ecosystem, types and functioning of ecosystem.

Module III: Energy flow in the ecosystem, tropic levels, food chains and food web, Biomes- Biomes of tropical rainforests, Tropical deciduous and savanna biomes, Environmental pollution (Air, Water, Noise and Land Pollution), Depletion of ozone layer.

Module IV:

Natural Hazards and degradation of Environment- Volcanoes earthquakes and cyclones. Conservation and management of physical and cultural environment, International and national policies on protection of earth environment- Role of UNO.

Books Recommended:

- Singh, Savindra, *Environmental Geography*, Paryag Pustak Bhawan, Allahabad.
- Sharma, P. D., *Ecology and Environment*, Rastogi Publication, Meerut.
- Gautam, Alka, *Geography of Resources: Exploitation, Conservation and Management*, Rastogi Publication, Meerut.
- Gautam, Alka, *Environmental Geography*, Rastogi Publication, Meerut.
- Kaushik, S. D. and Garg, Kuldip, *Sansadhan evam Paryavaran Bhugol*, Rastogi Prakashan, Meerut.
- Prasad and Nautiyal, *Paryavaran Bhugol*, Sharda Pustak Bhawan, Allahabad.
- Singh, Savindra, *Paryavaran Bhugol Ka Swaroop*, Prawalika Prakashan, Allahabad.
- Gautam, Alka, *Sansadhan evam Paryavaran*, Sharda Pustak Bhawan, Allahabad.
- Srivastav, Lokesh, *Paryavaran adhyayan evam Prabandh*, Sharda Pustak Bhawan, Allahabad.

- Singh, Savindra, *Jaiv Bhugol*, Sharda Pustak Bhawan, Allahabad.
- Bhattacharya, N.N., *Biogeography*, Rajesh Publication, New Delhi.
- Negi, P. S., *Paristhitiki evam Paryavaran Bhugol*, Rastogi Prakashan, Meerut.

OR

POPULATION GEOGRAPHY

Module I:

Nature and scope of population geography; Sources and types of population data.

Module II:

World population: growth, causes and consequences, Factors affecting population distribution, Migration: types and determinants, Urbanization: trends and pattern

Module III:

Population dynamics: age and sex structure, Occupational structure, Demographic transition theory; Human Resource Development: indicators and patterns.

Module IV:

INDIA- Population growth, Distribution of population, Population problems and Policy.

Books Recommended:

- Maurya, S. D., *Population Geography*, Prawalika Publication, Allahabad.
- Chandana, R. C., *Jansankhya Bhugol*, Kalyani Publishers, New Delhi.
- Tripathi, R. D., *Jansankhya Bhugol*, Vasundhara Prakashan, Gorakhpur.
- Sahoo, H. (ed.) *Population Issues*, Rawat Publication, New Delhi.
- Tiwari, Ram Kumar, *Jansankhya Bhugol*, Prawalika Publication, Allahabad.
- Unisa, S., *Population Health and Environment*, Rawat Publication, New Delhi.
- Mukherjee, *Migration in India: Urbanization, Regional Disparities*, Rawat Publication, New Delhi.

GEOG-G-DSC-501A-P	PRACTICAL	(02 Credits, 30 Lectures) FM: 25 (20+05)
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A) Maps- meaning and classification- Atlas Wall Maps, Wall Maps, Topographical, Cadastral Maps, Physical and cultural maps. **10 Marks**

B) Scales- Meaning, significance, types. Conversion of Scales, Graphical Scale, Linear and Diagonal Scales with illustration. 10 Marks

C) PNB + Viva – Voce. 05 Marks

GEOG-G-SEC-501-T	INDIAN HISTORY, CULTURE AND DIVERSITY (For course details refer Annexure 1)	(02 Credits, 30 Lectures) FM: 50 (40+10)
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