DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM & MARKING SCHEME

M.A. GEOGRAPHY Semester – II

SESSION: 2022-23



ESTD: 1958

GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG, 491001 (C.G.)

(Former Name - Govt. Arts & Science College, Durg)

NAAC Accredited Grade A⁺, College with CPE - Phase III (UGC), STAR COLLEGE (DBT)

Phone: 0788-2212030

Website - www.govtsciencecollegedurg.ac.in, Email - autonomousdurg2013@gmail.com

GOVT. V.Y.T. P.G. AUTONOMOUS COLLEGE DURG (C.G.)

SYLLABUS

FOR

P.G. GEOGRAPHY

SEMESTER EXAMINATION

M. A. SEM. EXAM. : II (2022-2023)

APPROVED BY BOARD OF STUDIES
DEPTT. OF GEOGRAPHY

Syllabus and Marking Scheme for. M.A. Second Semester Session 2022-23

Paper No.	Title of the Paper	Marks Allotted in Theory		Marks Allotted in Internal Assessment		Credits
		Max	Min	Max.	Min.	
I	CLIMATOLOGY	80	16	20	04	05
II	POPULATION GEOGRAPHY	80	16	20	04	05
III	REGIONAL PLANING AND DEVELOPMENT	80	16	20	04	05
IV	REMOTE SENSING TECHNIQUES	80	16	20	04	05
٧	Practical: MAP PROJECTION, INTERPRETATION OF TOPO-SHEET; SURVEING – DUMPY LEVEL, THEODOLITE SURVEY.	100	36			04
	Total	420		80		24

04 Theory papers	•	320
04 Internal Assessments		80
01 Practical	-	100
(A) Lab Work		70
(B) Record & Viva		30
Total Marks		500

Note: 1. 20 marks = 01 credit in Theory Papers and 25 Marks = 01 Credit in Practical/Project work

The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2022-23.



GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG M.A.II Semester Geography

Session 2022-23

PAPER - I

CLIMATOLOGY

M.M.80

Unit - I

Introduction:

- 1. Meaning & definition, Scope of Climatology, Climatology & Meteorology
- 2. Composition and structure of atmosphere.
- 3. Atmospheric Humidity Absolute, relative, specific humidity,
- 4. World pattern of precipitation.
- 5. Acid Rain

Unit - II

Atmospheric Air circulation:

- 6. Air masses: Meaning & Concept, Source Region, Modification of Air mass,
- Classification of Air mass
- 7. Ocean atmospheric interaction: El Nino and La Nina & Walker Circulation &
- El-Nino -Southern Oscillation (ESNO)
- 8. Cyclones:-Tropical & Temperate.

Unit - III

Climatic Regions & Classification:

- 9. Climatic classification of Koppen, Climatic classification of Thornthwaite.
- 10. Tropical climatic region of the world: equatorial, monsoon and savanna.
- 11. Temperate & cold climatic region of the world: Mediterranean, Steppe and tundra.

Unit - IV

Climatic Change & Applied Climatology:

- 12. Climatic changes its Evidences and possible causes.
- 13. Global warming and its environmental impacts.

14. Interpretation and generation of Climatic information especially: Climate & soils, Climate & agriculture activities, Climate & Settlement, Weather and health.

Suggested Readings

- 1. Crichfield, J.H.: Genral Climatology, Prentice Hall, India, New Delhi, 1993
- 2. Das, P.K.: Monsoons National Book Trust, New Delhi, 1987.
- 3. Lat, D.S.: Climatology, chaitanya Publications, Allahabad, 1986.
- 4. Robinson, P.J. and Henderson S.: Contempory Climatology, Henlow, 1999.
- 5. Thampson, R.D. and Perry, A (ed): Applied Climatology, Priniciples and Practice Routledge, London, 1997.

There shall be very short, short and long answer type questions in each and every Unit of the syllabus.

The students are required to study the content mentioned in the curriculum exhaustively.

The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2022-23 Name and Signatures

Chairperson/H.O.D	Departmental members 1. 2. 3.
(VII)	4.
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Autonomous Examination Cell

Question Paper Format and Distribution of Marks for PG Semester Examination

Question paper format for the Post-Graduate Examination has been revised from the Session 2018-19. The revised format will be applicable for all the question papers of Semester I, II, III & IV. The following are the main points of the new format:

1. The question paper will be of 80 marks (as before)

2. Questions will be asked Unit-wise in each question paper.

3. From each Unit, the questions will be asked as follows:

Q.1 Very short answer type question

(Answer in one or two sentences)
Q.2 Very short answer type question
(Answer in one or two sentences)

(02 Marks)

(02 Marks)

Q.3 Short answer type question (Answer in 200-250 words)

(02 Marks)

Q.4 Long answer type questions (Answer in 400-450 words) (12 Marks)

Type of Question	Unit-I	Unit-II	Unit-III	Unit-IV
Very Short (2 Questions)	2 x 2 = 4	2 x 2 = 4	2 x 2 = 4	2 x 2 = 4
(Maximum two sentences)	Marks	Marks	Marks	Marks
Short (1 Question)	1 x 4 = 4	1 x 4 = 4	1 x 4 = 4	1 x 4 = 4
200-250 words	Marks	Marks	Marks	Marks
Long answer (1 Question)	1 x 12 = 12			
400-450 words	Marks	Marks	Marks	Marks

Note:

- 1. Question no. 1 and Question 2 will be compulsory.
- 2. Question no. 3 and 4 will consist of 2 optional questions of which one has to be attempted.
- 3. As mentioned above, two compulsory very short answer type questions (2+2 marks), one short answer type question with internal choice (4 marks) and one long answer type question with internal choice (12 marks) will be asked from each unit. Thus there will be questions of 20 marks from each unit and of total 80 marks from all the four units of the syllabus/syllabi.
- 4. Some papers of English Literature consist of Literary Text. In such question papers, one annotation of 4 marks from each unit will be asked instead of short answer type question. The papers which do not contain literary texts the question paper format and marking scheme will remain the same.
- 5. For Hindi Literature, refer the Hindi version.
- 6. Internal Assessment Examination will be as follows:
 - i. Internal Test in each paper (20 marks)
 - ii. Seminar (Power point presentation) in any one of the paper (20 marks)
 - Assignment in each of the remaining papers (excluding the paper of Seminar. (20 marks)
 - iv. Average of marks obtained in internal test + seminar in any one paper and marks obtained in internal test + assignment in rest of the papers will be calculated and taken into consideration.

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M.A.II Semester Geography

Session 2022-23

PAPER - II

POPULATION GEOGRAPHY

M. M. 80

Unit - I

- 1: Population Geography: Scope and objectives,
- 2: Development of Population Geography as a field of specialization Population Geography and Demography,
- 3: Sources of population data.
- 4: Census meaning, historical development, methods.

Unit - II

- 5: Population Distribution of the world& their determinants.
- 6: Population: Density and growth- World pattern and their determinants.
- 7: Population distribution, density and growth profile of India.
- 8: Population theories Demographic and Transition.

Unit ~ III

- 9: Population composition: ~ Age and sex ratio, world & India
- 10: Population composition Urbanization, occupational structure, of world & India
- 11: Population dynamics: Measurements of Fertility and mortality.
- 12: Migration: National and international pattern.

Unit - IV

- 13: Population and development
- 14: Population Resource regions.
- 15: Population policies in developed and Less developed Countries.
- 16: India's population policies.

Suggested Readings

- 1. Census of India, India: A State Profile, 1991.
- 2. Chandana, R.C. geography of Population: Concept, Determinants and Patterns, Kalyani Publishers, New York 2000.
- 3. Clark, John I., Population Geography, Pergamon Press, Oxford 1973.
- 4. Mamoria, C.B. India Population Problem, Kitab Mahal, New. Delhi, 1981.
- 5. Mitra, Ashok, India's Population: Aspects of quality and control, Vol. I & II, Abhinar Publications, New Delhi 1978.
- 6. Sundram K.V. and Sudesh Nangia, (ed.) population Geography. Heritage, Publication, Delhi 1986.
- 7 लाल ,हीरा -जनसंख्या भूगोल ,वसुन्धरा प्रका ान ,गोरखपुर उ प्र त्र 1996
- 8. चादना ,आर सी : जनसंख्या भूगोल ,आर ,के ,बुक्स ,नई दिल्ली ,2009
- 9. ओझा ,रधुनाथ :जनसंख्या भूगोल ,प्रतिभा प्रका ान कानपुर 1912
- 10. पण्डा ,बी ,पी ,जनसंख्या भूगोल ,म ,प्र ,हिन्दी ग्रंथ अकादमी ,भोपाल ,1992

DIRECTIVES FOR STUDENTS, FACULTY AND EXAMINERS

There should be very short, short and long answer type of questions in each and Every unit of the syllabus.

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(Answer in one or two sentences)

(02 Marks)

Q.2 Very short answer type question

(Answer in one or two sentences)

(02 Marks)

Q.3 Short answer type question (Answer in 200-250 words)

(04 Marks)

Q.4 Long answer type questions (Answer in 400-450 words)

(12 Marks)

Type of Question	Unit-I	Unit-II	Unit-III	Unit-IV
Very Short (2 Questions)	2 x 2 = 4	2 x 2 = 4	2 x 2 = 4	2 x 2 = 4
(Maximum two sentences)	Marks	Marks	Marks	Marks
Short (1 Question)	1 x 4 = 4	1 x 4 = 4	1 x 4 = 4	1 x 4 = 4
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Note:

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M.A.II Semester Geography

Session 2022-23

PAPER - III

REGIONAL PLANNING AND DEVELOPMENT

M.M.80

Unit: I

- 1. Regional Planning: Definition, Scope, evolution and objective.
- 2. Region and Regionalism, Planning Region: Concept and Delineation.

3. Concept of Regions.

4. Central Place Theory, Concept of core and periphery Friedmanns Model of Spatial Organization and Economic Growth.

Unit:II

- 5. Regional Development Theories. Development Theory of Myrdal and Hirschman.
- 6. Economic and Export Base model.
- 7. Frank's Theory of Under development.
- 8. Growth Pole Model.

Unit: III

- 9. Approaches and Strategies of Regional Development.
- 10. Agropolitan Development.
- 11. Community Development. River Basin Planning.
- 12. Metropolitan Planning (with reference to India)

Unit: IV

- 13. Regional Planning in India.
- 14. Regional Imbalances and Inequalities.
- 15. Planning for special problem Region: Tribal area (Balod block C.G.), Drought prone areas.
- 16. Command areas and River basins. Regional Planning and Development in India.

Suggested Reading:

- 1. Abler, R., et.al.: spatial Organisation: The Geographer's Viewof the world, prentice Hall, Englewood Cliffs, N.J., 1
- 2. Bhat, L.S.: Regional Planning in India, A Statistical Publishing Society, Calcutta, 1973.
- 3. Christaller, w.: Central Places in Southern Germany, Translated by C.W. Baskin Prentice Hall, Englewood Cliffs, New Jersey, 1966.
- 4. Friedmann, J. and Alonso, W.: Regional Development and planning A Reader M.I.T.Press, Combridge, Mass, 1967.

- 5. Government of India, Planning Commission: Third Five Year Plan, Chapter on Regional Imbalance in Development, New Delhi, 1991.
- 6. Kunda, A and Raza, Moonis: Indin Economy The Regional Dimension, Spectrum Publishers, New Delhi, 1982.
- 7. Mishra, R.P.: Regional Planning: Concepts, Techniques and Policies, University of Mysore, Mysore, 1969. Strategy,
- 8 चन्द्राकर,इन्द्रमन : व्यावहारिक भूगोल, वसुन्धरा प्रका ान, गोरखपुर उ.प्र. 1998 ,
- 9. श्रीवास्तच व्ही के एवं अन्य : प्रादेि कि नियोजन एवं संतुलित विकास ,वसुन्धरा प्रका ान गोरखपुर
- 10. चॉदनां, आर सी. : प्रादेि कि नियोजन एवं विकास. आर के बुक्स नई दिल्ली ,2010
- 11. सिंह एवं दुबे : प्रादेि ाक विकास एवं नियोजन, ,आर के बुक्स नई दिल्ली ,2009

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GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.II Semester Geography

Session 2022~23

PAPER – IV REMOTE SENSING TECHNIQUES

M.M.80

Unit-I

- 1: Meaning and Basic Concept of Remote Sensing.
- 2: Basic Principles of Microwave Remote Sensing.
- 3: Remote Sensing Platforms and Sensor.

Unit - II

- 1. Digital Image Processing.
- 2: Types of Image, Advantage of Digital Image.
- 3: Image Processing Methods, Reasons for low contrast, Contrast Enhancement Technique.
- 4: Fundamentals Concept of Aerial Photography.
- 5: Stereoscopic Vision. Air Photo Interpretation.

Unit - III

- 1: Fundamental Concept of Photogrammetry
- 2: Meaning, Development. Geometry of Photographs,
- 3: Types of Projection.
- 4: Method of Scale Determination of Aerial Photographs and Maps.

Unit - IV

- 1: Remote Sensing Applications Land use and Land cover.
- 2: Applications of Remote Sensing in Geology.
- 3: Applications of Remote Sensing in Hydrology.
- 4: Applications of Remote Sensing in Forestry.

Suggested Readings

- 1. American Society of Photogrammetry: Manual Remote Sensing ASP Falls Church V.A. 1983.
- 2. Barrett E.C. and L.P. Curtis: Fundamentals of Remote Sensing and Air Photo Interpratation on. Mc MILLAN. New York. 1992.
- 3. Curran. Paul J.: Principles of Remote Sensing: Longman, London. 1985.
- 4. Luder D.: Aerial Photography Interpretation: Pinciples and Application. C.C.Graw Hill, New York, 1978.
- 5. Rao D.P. (eds): Remote Sensing For Earth RESOURCES, Association of Exploration Geography, Hyderbad, 1998.
- 6. चौनियाल देवी दत्तः सुदूर संवेदन एवं भौगोलिक सूचना प्रंणाली , भारदा पुस्तक भवन हलाहाबाद ,2009

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Departmental members
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GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG M.A.II Semester Geography

Session 2022~23

PAPER - V

PRACTICAL ~ II

MAP PROJECTION, INTERPRETATION OF TOPOSHEET AND SURVEYING

M.M. 100

Map projection

Unit-1: Map projection - properties and Construction of World projection, Choice of projection.

Unit-2: Interpretation of map -Topographical sheet

Unit-3: Computer Cartography- Data Storage, Elements of Digital Cartography, Coding and Classification of Map Contents, Cartographic Symbols.

Surveying

Unit-4: Dumpy level survey.

Unit-5: Theodolite survey.

Suggested Reading:

- 1. Singh, R.L. & P.K. Dutt: Elements of Practical Geography Students trends.
- 2. Monkhouse, F.J. & H.R. Wilkinson; Maps and Diagrams Mathuen, London.
- 3. Mahmood, Aslam 1971: Statistical Methods in Geographical studies Rajesh Pub., New Delhi.
- 4. Gregory, S. Statistical Methods and The Geographer.
- 5. Hammond & Mccullah 1977: Quantitative Techniques in Geography, Clarendon Press, Oxford.
- 6. Fitz, Gomid, B.P.: Science in Geography, Developments in Geographical Method, Oxford University Press.
- 7. Yeaters, M.: An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York.
- 8. मॉक हाउस तथा विल्किन्सन 1976 : मानचित्र तथा आरेख, म.प्र. केदारनाथ , रामनाथ, मेरठ.
- 9. नेगी, डी.एस. : भूगोल में आधारभूत सांख्यिकी, केदारनाथ , रामनाथ, सेठ.
- 10. हीरालाल : प्रायोगिक भूगोल, क़िताबघर, कानपुर.
- 11 भाग भी तितारी एतं स्थाकर विपाती । अधिनत प्रशीमक भ्रमोत्र प्रशास भवन स्त्राहाहात

12. पुनिमया बालचन्द्र : सर्वेक्षण एवं क्षेत्रीय कार्य ,भाग — एक एवं दो ,लक्ष्मी पब्लिके ान ,दिल्ली 2000

13. भार्मा , जे. पी. : प्रायोगिक भूगोल ,रस्तोगी पब्लिके ान मेरठ ,

14 चौनियाल ,देवी दत्तः सुदूर संवेदन एवं भौगोलिक सूचना प्रणाली , गरदा पुस्तक भवन ,इलाइाबाद 2009

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(04 Marks)

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Type of Question	Unit-I	Unit-II	Unit-III	Unit-IV
Very Short (2 Questions) (Maximum two sentences)	2 x 2 = 4	2 x 2 = 4	2 x 2 = 4	2 x 2 = 4
	Marks	Marks	Marks	Marks
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