

Govt. College For Women Parade Ground, Jammu

(Autonomous College)

B.A/B.Sc. Syllabus

(CBCS)

Geography (Session 2018-19, 2019-20, 2020-21)

Semester-I

GCWPGEOC101

Theory

External Examination:80 marks

Duration- 3 hours

Internal Examination:20marks

The question paper shall be of 80 marks. There will be 3 sections in the question paper. Section A contains 5 short answer type questions each of 3 marks one from each unit. Section B contains 5 medium type answer questions each of 7 marks one from each unit. Section C contains 5 long answer type questions each of 15 marks one from each unit.

Note:- Candidate has to attempt all the questions from sections A&B and 2 questions from section C.

Physical Geography

Unit – 1

- 1.1. Definition, Nature and Scope of Geography.
- 1.2. Divisions of Geography.
- 1.3. Physical Geography and its components.
- 1.4. Relationship of Geography with other disciplines.

Unit - II

- 2.1. Theories regarding origin of the earth: Nebular, Kant and Planestimal Hypothesis.
- 2.2. Theory of Continental Drift.



2.3. Theory of Plate Tectonic.

2.4. Theory of Isostasy.

Unit - III

3.1 Geological Time Scale

3.2 Interior of Earth.

3.3 Earthquakes and Volcanoes Concepts, Types & Distribution.

3.4 Rocks and their Types.

Unit-IV

4.1 Earth Movements: Folds and Faults

4.2 Weathering and its types.

4.3 Normal Cycles of Erosion

4.4. Landslides and Avalanches: types and Causes.

Unit-V

5.1. Fluvial Cycle and Landforms

5.2. Glacial Process and Landforms

5.3. Karst Process and Landforms

5.4. Aeolian Landform and Process.

Books Recommended

1. Monkhouse, F.J: Principles of Physical Geography' Hodder and Stoughton, London,1960.
2. Singh, Savindra; Physical Geography, PrayagPustakBhawan, 2017.
3. Strahler, A.N, Environmental Geo Science, Hamillon Santa Barbara, 1973,
4. Strahler, A. N., and Strahler. A. H., Modern Physical Geography Wiley and Sons, Revised Edition, 1992.
5. Thornbury W.D., Principles of Geomorphology' Wiley 1969.
6. Wooldrige S.W. and Morgan, R.S., The Physical Basis of Geography and Geomorphology, Longman Green & Co. London' 1959

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B.A/B.Sc.PracticalSyllabus

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Geography (Session 2018-19, 2019-20, 2020-21)

Semester-I

GCWPGEOC102

Theory

External Examination:25marks

Duration- 3 hours

Internal Examination: 25 marks

Unit-I Cartography

1.1 Cartography: Definition, Nature and Scope of Cartography

1.2 Essentials of Map.

1.3 Map, Globe and Sketch: Concepts and Significance

1.4 Classification of Map.

Unit-II Scales

2.1 Scale: Definition, methods of Representing Scales

2.2 Classification of Scales

2.3 Plain Scales (Exercises-4 minimum)

2.4 Comparative and Diagonal Scales (Exercises- 4 each).

Unit-III Representation of Relief: Construction and Interpretation

3.1 Relief: Concept, Methods of Representing Relief.

3.2 Mathematical Method: Concepts of spot Heights, Bench Marks, Trigonometric Stations; and contours

3.3 Pictorial Method: Hachures and Hill shading.

3.4 Representation of Relief with the help of contours: Concave and Convex Slopes, Uniform and Steep Slopes; Undulating and Terraced slopes; Conical Hill and Plateau; V-Shaped and U-Shaped valleys

Unit-IV Profiles-Construction and Interpretation

4.1 Profile: Definition, Concept and its significance, Cross Section.

4.2 Serial and Superimposed Profiles.

4.3 Composite and Projected Profiles.

4.4 Longitudinal Profiles

Books Recommended

1. Mishra R.P. and Romesh A, Fundamentals of Cartography. McMillan Co. New Delhi,1986
2. Pal, S.K., Statistics for Geoscientists -Techniques and Concept Publishing, New Delhi,1998.
3. Robinson,A.H. et.al: Elements of Cartography, John Wiley& Sons USA.1995.
4. Sarkar, A., Practical Geography: A Systematic Approach' Logman, Calcutta, 1997.
5. Singh R.L. and Duff R.K., Element of Practical Geography. Kalyani Publishers, New Delhi,
- 6.Singh, Gopal: Map Work and Practical Geography, Vikas Publisher House Pvt. Ltd. New Delhi.
- 7.Khullar, D.R., 2017: Essential of Practical Geography, Manjit Singh New Academic Publishing Co Jalandhar.

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Geography (Session 2018-19, 2019-20, 2020-21)

Semester-II

GCWPGEOC201

Theory

External Examination: 80 marks

Duration- 3 hours

Internal Examination: 20 marks

Title: Geography of Jammu and Kashmir

The question paper shall be of 80 marks. There will be 3 sections in the question paper. Section A contains 5 short answer type questions each of 3 marks one from each unit. Section B contains 5 medium type answer questions each of 7 marks one from each unit. Section C contains 5 long answer type questions each of 15 marks one from each unit.

Note:- Candidate has to attempt all the questions from sections A&B and 2 questions from section C.

Section- A

Unit- I

- 1.1 J&K in context of India.
- 1.2 Physical division of J&K.
- 1.3 Climate of J&K.
- 1.4 Drainage OF J&K.

Unit- II

- 2.1 Natural Vegetation and soils.
- 2.2 Production of distribution of Wheat, Rice, Maize.
- 2.3 Horticulture and Sericulture.
- 2.4 Livestock and Fisheries.

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Unit- III

3.1 Mineral resources coal and Gypsum

3.2 Hydel Power Resources.

3.3 Forest based and agro based Industries.

3.4 Handicraft and Handlooms.

Unit- IV

4.1 Population-Growth, Distribution and Density.

4.2 Sex Ratio and Literacy.

4.3 Major ethnic groups.

4.4 Migration and Transhumance.

Unit- V

5.1 Urbanization.

5.2 Transport and Communication.

5.3 Important Tourist Destination.

5.4 Influence of National and International Tourism.

Suggested readings

- Dhar Vidya: Jammu and Kashmir Past and Present' Jammu 2005.
- Drew Fred Eric, 1971: Jammu & Kashmir Territories: Geographical Account. Odental Publishers, Delhi. Frank Young husband: Sir Kashmir. London
- . G.B.Singh: Encydopedia of Jammu. Itoo J (20(N) Jammu and Kashmirat Glance.
- Jasbir Singh: The Economy of Jammu & Kashmir. R.K. Anand Co. Jammu. 20(N). K. warikoo (1976), Jammu, Kashmir & Ladakh: A Bibliography. M.A. Steln (1982), Kalhana's Ra.la Larangani, The First (ashmlr, 1 Bombay.
- Maiid Hussain, A Geography of Jammu & Kashmir. Publishing House New Delhi, 1985. O. Somnath Dhar (1977), Jammu & Kashmir. NBT. Srinagar' Publishers.

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Geography (Session 2018-19, 2019-20, 2020-21)

Semester-II

GCWPGEOC202

Theory

External Examination: 25 marks

Duration- 3 hours

Internal Examination: 25 marks

Title: Cartography II

Unit-I

1:1 Weather and Climate and its basic elements.

1:2 Graphic Representation: Concept, Types, Significance in geography.

1:3 Representation of Temperature and Humidity: Simple and Multiple Line Graphs and Representation of Rainfall Data: Bar Graph.

Unit-II

2:1 Climograph and hythergraph: Definition, its importance.

2:2 Representation of climate data with the help of Climograph.

2:3 Representation of climate data with the help of Hythergraph.

Unit-III

3:1 Field Work and its Objectives.

3:2 Equipments and Planning of field work.

3:2 Field Study Tour Report (Field work and field report).

Unit-IV

4:1 Surveying: Definition, its importance.

4:2 Method of Surveying.

4:2 Chain and Tape Survey.

Chambers 

Suggested Readings.

Mishra R.P. and Ramh A, Fundamentals of cartography Mcmillan Co. New Delhi, 1986.

Pal, S.K., Statistics for Geoscientists -Techniques and Concept Publishing, New Delhi, 1998.

Robinson.A.H. et.al: Elements of Cartography, John Wiley& u-A.A",1995.

Practical Geography: S Sl6tematic Approach' Logman, Calcutta. '1 997.

Singh R.L. and Dutt R.K., Element of Practical (kalyani Publishers, New Delhi, 1979.

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Geography (Session 2018-19, 2019-20, 2020-21)

Semester-III

GCWPGEOC301

Theory

External Examination:80 marks

Duration- 3 hours

Internal Examination:20 marks

TITLE : GEOGRAPHY OF CLIMATOLOGY AND OCEANOGRAPHY

The question paper shall be of 80 marks. There will be 3 sections in the question paper. Section A contains 5 short answer type questions each of 3 marks one from each unit. Section B contains 5 medium type answer questions each of 7 marks one from each unit. Section C contains 5 long answer type questions each of 15 marks one from each unit.

Note:- Candidate has to attempt all the questions from sections A&B and 2 questions from section C.

Section- A (Climatology)

Unit- I

- 1.1 Climatology: Definition and Elements of Weather and Climate.
- 1.2 Composition and Structure of Atmosphere.
- 1.3 Factors affecting Distribution of Insolation and Global Heat Budget.
- 1.4 Temperature: Vertical and Horizontal distribution of Temperature.

Unit- II

- 2.1 Atmospheric Pressure: Vertical and Horizontal distribution of Pressure.
- 2.2 Winds: Causes and Types of Winds.
- 2.3 Humidity: Concept, Types of Humidity and Precipitation.
- 2.4 Clouds: Formation and Types of Clouds.

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Unit- III

3.1 Air Masses: Concept, Factors and Classification of Air Masses.

3.2 Fronts: Origin and Types of Fronts.

3.3 Cyclones: Causes and Distribution of Tropical and Temperate Cyclone.

3.4 Climatic Classification: Basis and Types of Koppen's Climatic Classification.

Section- II (Oceanography)

Unit- IV

4.1 Configuration of Ocean Floor: Continental Shelf, Continental Slope, Deep Sea Plain and Ocean Deeps.

4.2 Oceanic Temperature: Vertical and Horizontal distribution of Temperature.

4.3 Oceanic Salinity: Factors and Distribution of Salinity.

4.4 Oceanic Currents: Causes and Types of Atlantic and Indian Ocean Currents.

Unit- V

5.1 Tides: Origin and Types of Tides.

5.2 Coral Reefs: Origin and Types of Coral Reefs.

5.3 Ocean Deposits: Sources, Types and Classification of Ocean Deposits.

5.4 Global Warming: Causes and Effects of Global Warming.

Books Recommended:

Climatology:

- ☐ Barry R.G AND Chorley R.J. "Atmosphere, Weather and Climate" Routledge, 1998.
- ☐ Critchfield J. Howard, "General Climatology". Pearson Education, Singapore, Fourth Edition
- ☐ Hyman Andrew, "Climatology: An Atmospheric Science". Callisto Reference, 2016.
- ☐ Lal D.S. "Climatology". Sharda Pustak Bhawan, Allahabad, 2011.
- ☐ Singh Savindra, "Physical Geography" Pravalika Publications, Allahabad, 2013.
- ☐ Trewartha G.T. "An Introduction to Climate". International Students Edition, McGraw Hill, New York, 1980.

Oceanography:

- ☐ Garrison Tom, "Essentials of Oceanography", Brooks/ Cole, 2000.



- Gerald S. "General Oceanography - An Introduction", John Willey and Sons, New York, 1986.
- King L.C. "Oceanography of Geographers", E. Arnold, London, 1975.
- Lal D.S. "Oceanography", Sharda Pustak Bhawan, Allahabad, 2003.
- Singh Savindra, "Physical Geography", Pravalika Publications, Allahabad, 2013.
- Trujillo P. Alan and Thurman V. Harold, "Essentials of Oceanography", Pearson Education India, Eleventh Edition, 2015.

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B.A/B.Sc.Practical Syllabus

(CBCS)

Geography (Session 2018-19, 2019-20, 2020-21)

Semester-III

GCWPGEOC302

Theory

Duration- 3 hours

External Examination:25 marks

Internal Examination: 25 marks

Title: Quantitative Techniques in Geography

Unit-I

1:1 Quantitative Geography: Introduction and Significance.

1:2 Statistical Data: Definition, Types of Data, Sources of Primary and Secondary Data and their Methods of Collection.

1:3 Tabulation and Analysis of Data

Unit-II

2:1 Central Tendency: Introduction, Merits and Demerits

2:2 Measures of Central Tendency: Methods and their Merits and Demerits.

2:3 Quantitative Analysis: Mean, Median and Mode

Unit-III

3:1 Measures of Dispersions: Introduction and their Merits and Demerits.

3:2 Measures of Dispersions: Methods and their Merits & Demerits

3:3 Quantitative Analyses: Mean Deviation, Quartile Deviation and Standard Deviation

Unit-IV

4:1 Correlation: Introduction and their Merits and Demerits.

4:2 Methods of Correlation and their Merits and Demerits

Naresh Rana

27. Correlative Analyses: Karl Pearson Product Moment Method and Spearman Rank Correlation Method.

Books Recommended:

- Alvi Zamir. Statistical Geography, Rawat Publications, Jaipur and New Delhi.
- Ishtiaque M. A Textbook of Practical Geography, Heritage Publishers, Ansari Road, Daryaganj, New Delhi.
- Mahmood Aslam. Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi, 2002.
- Pal S.K, Statistics for Geoscientists- Techniques and Application, Concept Publishing Company, New Delhi, 1998.
- Singh R.L and Dutt R.K., Elements of Practical Geography, Kalyani Publisher, New Delhi, 1979.

Aravind *Raj*

SKILL ENHANCEMENT

GCWPGEOC303

Total Lectures: 60

Internal Examination: 20 marks

Time Duration: 3hrs

External Examination: 80 marks

Note: A candidate has to attempt 05 short answer questions each of 03 marks, 05 medium answer type questions each of 07 marks and 02 long answer type question out of five questions, covering whole syllabus.

Section- A (Cartographic Symbols)

Unit- I

- 1.1 Cartographic Symbols: Introduction and their Significance in Map Making
- 1.2 Types of Cartographic Symbols and their application.
- 1.3 Conventional Symbols: Physical and Cultural Symbols and their application. (15 lectures)

Uni- II

- 2.1 Cartographic Diagrams: Pie Diagram, Proportional Circles, Concentric Circles, Pyramid and their merits and demerits.
- 2.2 Representation of Population data by Cartographic Diagrams.
- 2.3 Representation of Agricultural data by Cartographic Diagrams. (15 lectures)

Section- B (Cartographic Methods)

Unit- III

- 3.1 Cartography Methods: Introduction, Definitions, Types and Application of Dot and Choropleth methods.
- 3.2 Representation of Population and Agricultural data by Dot and Choropleth methods.
- 3.3 Representation of Population and Agricultural data by Combination method (Choropleth and Diagrams) (15 lectures)

Unit- IV

- 4.1 Cartography Methods: Introduction, Definitions and Application of Isopleth, Chorochromatic and Choroschematic methods.



4.2 Representation of Climatic data (Temperature and Rainfall) by Isotherm (Interpolation) method.

4.3 Representation of Geographical data by Chorochromatic and Chorochromatic Methods (Lectures)

Books Recommended:


- Ishiaque M, A Textbook of Practical Geography, Heritage Publishers, Ansari Road, Daryaganj, New Delhi
- Mishra R.P AND Ramesh A., Fundamentals of Cartography, McMillan Co. New Delhi, 1986
- Robinson A. H. et.al: Elements of Cartography, John Wiley and Sons, U.A.A., 1995.
- Sarkar A., Practical Geography: Systematic Approach, Orient Longman, Calcutta, 1997
- Singh R.L and Dutt R.K., Elements of Practical Geography, Kalyani Publisher, New Delhi, 1979.

4.2 Representation of Climatic data (Temperature and Rainfall) by Isopleth (Interpolation) method.

4.3 Representation of Geographical data by Chorochromatic and Choroscopic Methods.(15 lectures)

Books Recommended:

- Ishtiaque M, A Textbook of Practical Geography, Heritage Publishers, Ansari Road, Daryaganj, New Delhi
- Mishra R.P AND Ramesh A., Fundamentals of Cartography, McMillan Co. New Delhi, 1986
- Robinson A. H. et.al: Elements of Cartography, John Wiley and Sons, U.A.A.. 1995.
- Sarkar A., Practical Geography: Systematic Approach, Orient Longman, Calcutta, 1997
- Singh R.L and Dutt R.K., Elements of Practical Geography, Kalyani Publisher, New Delhi, 1979.

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Geography (Session 2018-19, 2019-20, 2020-21)

Semester-IV

GCWPGEOC401

Theory

External Examination:80 marks

Duration- 3 hours

Internal Examination:20marks

TITLE: GEOGRAPHY OF INDIA

The question paper shall be of 80 marks. There will be 3 sections in the question paper. Section A contains 5 short answer type questions each of 3 marks one from each unit. Section B contains 5 medium type answer questions each of 7 marks one from each unit. Section C contains 5 long answer type questions each of 15 marks one from each unit.

Note:-Candidate has to attempt all the questions from sections A&B and 2 questions from section C.

Unit- I

1.1 India: In the Context of Asia.

1.2 Physiographic Divisions of India.

1.3 Climate of India: Mechanism of India monsoon, Jet streams, Western Disturbances.

1.4 Drainage System of India.

Unit- II

2.1 India: soils Types, characteristics and Distribution.

2.2 India: vegetation (Types, characteristics and Distribution)

2.3 Mineral Resources of India : Wheat and Rice. Distribution and Production.

2.4 Power resources of India : Coal and Petroleum.

Unit- III

3.1 Indian Agriculture: Characteristics and Problems.

3.2 Green Revolution in India Impact and Problems.



3.3 Major cereal crops: Wheat and Rice. Distribution and Production.

3.4 Major Cash crops: cotton, Sugarcane, Tea and coffee- distribution and Production.

Unit- IV

4.1 Spatial Distribution of Population, Density, Growth and their trends.

4.2 Recent Population Policy of India.

4.3 Migration: Causes and Consequences in India.

4.4 Urbanization of India: Trends and disparities.

Unit- V

5.1 Regionalization of India: Basis of regionalization; Macro and Meso regions of India.

5.2 Factors of Localization of Iron & Steel and Cotton textiles industries.

5.3 Industrial regions of India.

5.4 Problems and New Industrial policies of India.

Suggested Readings:

Deshpande, C.D: India- A Regional Interpretation, Northern Book Centre, New Delhi, 1992.

Ginsburg N: The Pattern of Asia, Prentice Hall, Englewood cliffs.

Govt. of India: National Atlas of India, NATMO Publication, Calcutta.

Govt. of India: The Gazetteer of India, Vol. I & III Publication Division, New Delhi.

Negi, Balbir Singh: Geography of India. Kedarnath Ramnath, Meerut, Delhi, 1993.

Singh, Gopal: India (Latest Edition), Atma Ram & Sons, Delhi.

Singh, Jagdish: India: A Comprehensive Systematic Geography, Radha Publications, New Delhi, 2003.

Singh, R.L: A Regional Geography, National Geographical Society of India, Varanasi, 1995.

Spate, O.H.K. and Learmonth, A.T.A: India and Pakistan- Land, People and Economy, Methuen & Co., London, 1967.



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Geography (Session 2018-19, 2019-20, 2020-21)

Semester-IV

GCWPGEOC402

Theory

External Examination: 25marks

Duration- 3 hours

Internal Examination: 25 marks

Title: Cartography

Unit-I

1:1 Meaning and Definition of Maps.

1:2 Essential components, classification and uses of maps.

1:3 Difference between Maps, charts and Diagrams.

Unit-II

2:1 Types of cartographic symbols- Point, line & Area symbols and their applications.

2:2 Cartographic Diagrams- Pie- diagram, Proportional circle and concentric circles.

2:3 Representation of Population Data by cartographic diagrams.

Unit-III

3:1 Representation of agriculture data by pie diagram, proportional circle and concentric circle

3:2 Cartographic Methods- Isopleth, choropleth, Dot, chrochromatic their concept and application. Merits and Demerits.

3:3 Representation of Population Data (Distribution, Density and Growth) by Dot and chloropleth methods.

Unit-IV

4:1 Drawing of distribution maps with the help of cherochromatic and choroschematic circle.

4:2 Representation of climatic data with the help of Isopleth methods.



4:3 Field study tour. Geographically important places intra – inter states.

Books Recommended:

AlviZamir, Statistical Geography, Rawat Publications, Jaipur and New Delhi.

Ishtiaque M, A Textbook of Practical Geography, Heritage Publishers, Ansari Road, Daryaganj, New Delhi.

MahmoodAslam, Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi, 2002.

Pal S.K, Statistics for Geoscientists- Techniques and Application, Concept Publishing Company, New Delhi, 1998.

Singh R.L and Dutt R.K., Elements of Practical Geography, Kalyani Publisher, New Delhi, 1979.

Munish *Raj*

SKILL ENHANCEMENT

GCWPGEOC403

Theory: 60 Lectures

Internal Examination: 20

Time Duration: 3hrs

External Examination: 80

NOTE: The objective of this paper is to train students in Skillful Planning for Regional Development. A candidate has to attempt 05 short answer questions each of 03 marks, 05 medium answer type questions each of 07 marks and 02 long answer types question each of 15 marks out of five questions, covering whole syllabus.

Regional Development

Unit- I

- 1.1 Introduction to the concept of Regional Planning.
- 1.2 Need to study Skillful Planning.
- 1.3 Classification and types of Skill Planning. (15 lectures)

Unit- II

- 2.1 Characteristics of Skillful Planning.
- 2.2 Skillful Delineation of Planning Regions.
- 2.3 Role of Skill Planner in Regional Development. (15 lectures)

Unit- III

- 3.1 History of Skillful Planning in India.
- 3.2 Basis of sustainable agriculture in J&K.
- 3.3 Planning and Management of water resources in J&K. (15 lectures)

Unit- IV

- 4.1 Basic concept of Agro/Ecological Zones of India.
- 4.2 Introduction to Planning with basic concept in context of core and periphery model.
- 4.3 Basic Planning for Backward Areas. (15 lectures)

NOTE: The objective of this paper is to train students in Skillful Planning for Regional Development.

Murugesu *Raj*

Books Recommended

1. Blij H.J.De, 1971: Geography: Regions and Concepts, John Wiley and Sons. Claval P.I, 1998: An introduction to Regional Geography, Blackwell Publishers, Oxford and Massachusetts
2. Friedmann J. and Alonso W. (1975): Regional Policy Readings in Theory and Applications, MIT Press, Massachusetts
3. Gore C. G., 1984: Regions in Question: Space, Development Theory and Regional Policy, Methuen, London.
4. Gore C. G., Köhler G., Reich U-P. And Ziesemer T., 1996: Questioning Development; Essays on the Theory, Policies and Practice of Development Intervention, Metropolis- Verlag, Marburg.
5. Haynes J., 2008: Development Studies, Polity Short Introduction Series.
6. Johnson E.A.J., 1970: The Organization of Space in Developing Countries, MIT Press, Massachusetts.
7. Peet R., 1999: Theories of Development, The Guilford Press, New York.
8. UNDP 2001-04: Human Development Report, Oxford University Press.
9. World Bank 2001-05: World Development Report, Oxford University Press.
10. Mohan, Krishna (2005). Addressing Regional Backwardness: An Analysis of Area Development Programmes in India. Manak Publications New Delhi.

Aravind R