

M. A. GEOGRAPHY (SEMESTER - I)

Code- GEG-M 101 (Core Course - 01)

Geography (5 Credits)

Time : 3 Hours (ESE)

Full Marks: 100

CLAS : 101

For questions, for End Semester Examination, Candidates

**2 Year (Four Semester)**

**Post Graduate Programme**

**Syllabus for M. A. Geography**

**(Faculty of Social Science)**

**Under**

**Choice Based Credit System (CBCS)**

**(To be effective from 2018-19)**

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22/1/19

H. S.  
Head  
Univ. Deptt. of Geography  
B. R. A. Bihar University  
Muzaffarpur

**M. A. GEOGRAPHY (SEMESTER - 1)**

**Code- GEO-M 101 (Core Course - 01)**

**Geomorphology (5 Credits)**

**Time : 3 Hours (ESE)**

**Full Marks : 100**

**ESE : 70 Marks**

**CIA : 30 Marks**

The questions for End Semester Examination Comprises of three parts as mentioned below

**Part - A**

Ten objective type Question : All questions to be answered (Questions shall be selected from the whole syllabus preferably two questions from each unit)  $10 \times 2 = 20$  marks

**Part - B**

Five short Answer Questions - Four questions to be answered (Questions shall be selected from the whole syllabus preferably one question from each unit)  $4 \times 5 = 20$  marks

**Part - C**

Five long answer Questions. Three questions to be answered. (Questions shall be selected from the whole syllabus preferably one question from each unit.  $3 \times 10 = 30$  marks

- Unit I** Theories regarding evolution of Earth's Crust  
Isostasy - Concept, Theories and its Application  
Continental Drift Theory and Plate Tectonics  
Theory of Sea Floor Spreading
- Unit II** Morphogenic Evolution Models of Davis, Penck and King  
Models of Slope Formation  
Channel Morphology  
Rejuvenation and Multiple Cycle of Erosion
- Unit III** Classification and Evolution of Arid Landform, Glaciers,  
Underground water and periglacial
- Unit IV** Geomorphic Evolution of :  
Chotanagpur Highlands  
Peninsular India  
Shillong plateau  
Kashmir Himalayas

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**Unit V**      **Meaning and Scope of Applied Geomorphology**  
**Application of Geomorphology in engineering projects and oil exploration**  
**Classification of Drainage basin and Drainage density**  
**Importance of drainage density in ground water assessment**

**CIA** ..... **30 Marks**

**Selected Readings :**

1. William, D. Thornbury - Principles of Geomorphology
2. Savindra Singh - Geomorphology
3. Enayat Ahmed - Geomorphology
4. P. Dayal - Geomorphology
5. V. K Sharma - Geomorphology Earth Surfaces
6. Wooldrige and Morgan - An Outline of Geomorphology
7. R. N. Tikka - Physical Geography
8. P. K. Sen and N. Prasad - An Introduction to the Geomorphology of India
9. D. S. Lal - Physical Geography
10. Cotton - Geomorphology
11. Sparks, B. W. - Geomorphology
12. Steers, J. A. Unstable Earth
13. Strahler, A. H. & Strahler, A. H. Elements of Physical Geography
14. Von Engeln. Geomorphology
15. Daly : Our Mobile Earth

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B.A. (Hons) Geography  
Jammu

Code- GEO-M 102 (Core Course - 02)

Climatology and Oceanography (5 Credits)

Time : 3 Hours (ESE)

Full Marks : 100

ESE : 70 Marks

CIA : 30 Marks

The questions for End Semester Examination Comprises of three parts as mentioned below

Part - A

Ten objective type Question : All questions to be answered (Questions shall be selected from the whole syllabus preferably two questions from each unit)  $10 \times 2 = 20$  marks

Part - B

Five short Answer Questions - Four questions to be answered (Questions shall be selected from the whole syllabus preferably one question from each unit)  $4 \times 5 = 20$  marks

Part - C

Five long answer Questions, Three questions to be answered. (Questions shall be selected from the whole syllabus preferably one question from each unit)  $3 \times 10 = 30$  marks

Unit I Climatology and its Relation With other Sciences

Composition and Structure of Atmosphere

Heat Budget and Heat Balance

Unit II air masses : Characteristics, Classifications and Distribution

Frosts and its types

Techniques of Weather Forecasting

Cyclones and Anticyclones

Unit III Climate change - causes : Evidences of climatic changes in the past

Global Warming : Causes and Consequences

Effect of El-Nino and Nina phenomena on Indian monsoon

Unit IV Oceanography : Bottom configuration of Indian and Atlantic oceans

Submarine Canyons - Theories regarding its Origin

Marine Deposits

Unit V Theories of Origin of Tides :

Types of Coral Reefs and theories of Coral Reef building

Salinity and temperature of ocean water

CIA

30 Marks

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Unit Dept of Geography  
G. A. Biker University  
M. G. S. Nagar

**Selected Readings :**

1. Savindra Singh - Climatology
2. D. S. Lal - Climatology
3. A. Miller - Climatology
4. E. Aguado E. and J. E. Bert : Understanding Weather and Climate
5. Alka Gautam - Jalvayu Abum Samudra Vigyan
6. Sharma & Vatal - Oceanography for Geographers
7. Blair, T. A. Climatology - General and Regional
8. Chorley, R. J. & Barry, R. G. Atmospheric Weather and Climate
9. Donn, W. L. Meteorology
10. Kendrew, W. G. Climates of the Continents
11. Mather, J. R. Climatology : Fundamental and Applications, 1974.
12. Rama Sastry, A. A. Weather & Weather forecasting
13. Rummey, G. Climatology and the World's climate
14. Sgringer, Foundation of Climatology
15. Stringer, Techniques in Climatology
16. Trewartha, G. T. An Introduction to Climate
17. Davis, R. J. A. 1986, Oceanography - An Introduction and the Marine Environment, Win C. Brown, 1986
18. Murray, S. J., 1913, Ocean, A. General account of the Science of the sea, Thornton Buter Worth, London.
19. Siddhartha, K. 1999, Oceanography, A Brief Introduction, Kisalaya Pub. Pvt. Ltd. New Delhi.
20. Stahler, A. N, Stahler A. M. 1997, Geography and man's Environment, John Wiley and Sons, New York.
21. Thurman, H. V. 1978, Introduction to oceanography, Charles E. Merrill Pub. Co., London.
22. Weyl, P. K. 1970, Oceanography an Introduction of the Marine Environment, John Wiley and Sons Ltd., London.

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Code- GEO-M 103 (Core Course - 03)

**History of Geographical Thought (5 Credits)**

Time : 3 Hours (ESE)

Full Marks : 100

ESE : 70 Marks

CIA : 30 Marks

The questions for End Semester Examination Comprises of three parts as mentioned below

**Part - A**

Ten objective type Question : All questions to be answered (Questions shall be selected from the whole syllabus preferably two questions from each unit) 10 x 2 = 20 marks

**Part - B**

Five short Answer Questions - Four questions to be answered (Questions shall be selected from the whole syllabus preferably one question from each unit) 4 x 5 = 20 marks

**Part - C**

Five long answer Questions. Three questions to be answered (Questions shall be selected from the whole syllabus preferably one question from each unit) 3 x 10 = 30 marks

**Unit I**      Meaning and scope of Geography : Its relation with Social Sciences  
Contribution by Greek and Roman Scholars with Special reference to Eratosthenes  
Herodotus, Aristotle  
Contribution by Arab scholars  
Development of Geographical ideas in Ancient India

**Unit II**      Development of Geography during 19th and 20th centuries : Contribution of  
Humboldt, Carl Ritter, H. J. Mackinder  
Dualism in Geography : Determinism v/s - Possibilism, Neo-Determinism.

**Unit III**      Positivism and Pragmatism in Human Geography  
Paradigms in Geography  
Quantitative Geography : Revolution, Merits and Demerit

**Unit IV**      Applied Geography  
Behavioural Geography  
Radical Geography  
Humanistic Geography

**Unit V**      Structuralism  
Functionalism  
Feminism  
Post modernism

CIA ..... 30 Marks

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**Selected Readings :**

1. Johnston R. and Sidway J. (1997) Geography and Geographers
2. Richard Peet (1998) Modern Geographical Thought
3. Milton E. Harvey & Brian P. Hally (ed.) (1989) Themes in Geographical Thought
4. D. Harvey (1969) Explanation in Geography
5. R. Doi (2009) Geographical Thought
6. M. Hussain (2004 rep.) Fundamentals of Geographical Thought
7. S. Adhikari (2009 5th Ed.) Fundamentals of Geographical Thought
8. R. D. Dikshit (2002) : Geographical Thought : A Conceptual History of Ideas
9. Jagdish Singh (2000) Bhaugolik Chintan Ka Mood Adhar (Hindi)
10. Kaushik (2009) Bhaugolik Chintan avam Bidhitantra (Hindi)
11. V. K. Srivastava (2002) Bhaugolik Chintan Ka Adhar (Hindi)
12. Bansal (2008) Bhaugolik Chintan (Hindi)
13. Lalit Raina (2008) Geographical Thought (Hindi)
14. Ali, S. M. Arab Geography, AMU, Press, Aligarh.
15. Anuchin, V., Directions in Geography.
16. Claval, P. Epistemology and History of Geographical Thought in progress in Human Geography, Vol. 4.
17. Dickinson, R. E. The Making of Modern Geography.
18. Davis, V. K. Conceptual Revolution in Geography.
19. Freeman, T. A. A Hundred Years of Geography, Introduction to Behavioral Geography.
20. Hartshorne, R. Perspectives on Nature of Geography, Rand MacNalty, 1959.
21. Johnson, R. J. The Future of Geography, Methuen, London, 1938.

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Code- GEO-M 104 (Core Course - 04)

Representation and Analysis of Statistical Data (5 Credits)

Time : 3 Hours (ESE)

Full Marks : 100

ESE : 50 Marks

CIA : 50 Marks

The questions for End Semester Examination Comprises of three parts as mentioned below

Part - A

Ten objective type Question : All questions to be answered (Questions shall be selected from the whole syllabus preferably two questions from each unit) 10 x 2 = 20 marks

Part - B

Five short Answer Questions - Four questions to be answered (Questions shall be selected from the whole syllabus preferably one question from each unit) 4 x 5 = 20 marks

Part - C

Five long answer Questions. Three questions to be answered. (Questions shall be selected from the whole syllabus preferably one question from each unit. 3 x 10 = 30 marks

Unit I Population Data - Dot Map, Proportionate circle, Spherical Diagram

Unit II Climatic Data - Wind Rose, Climograph, Hyther Graph  
Interpretation of Weather maps

Unit III Economic Data - Dard Graph, Ergograph  
Density of Population - Choropleth and Isopleth Method

Unit IV Statistical data - Correlation, Regression and Nearest Neighbour Analysis

Unit V Practical Record and Viva-Voce

CIA ..... 30 Marks

Selected Readings :

1. Monkhouse and Wilkinson - Maps and Diagrams.
2. Mahmood, Aslam, "Statistical Methods for Geographical Studies."
3. Campbell, J. Introductory Cartography, Prentice Hall, Inc., Englewood Cliff, New Jersey, 1984.

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4. Cuff, D. J. & Mattson, M. T. Thematic Maps, their Design and Production, Methuen, New York, 1982.
5. Robinson, A. H. & others, Elements of Cartography, John Wiley and Sons, New York (New edition)
6. Archer, J. E., & Dalton, T. H. Fieldwork in Geography, London.
7. National Atlas and thematic Maps Organisation (MATMO) : National Atlas of India, Calcutta.
8. Monkhouse, F. J., Maps and Diagrams, Methuen & Co., London, 1967.
9. डाटा चित्र पीठ सर्वा-प्रयोगात्मक कृतेषु जी सन्देश.
10. डाटा चरुणुडु मोरिया एव सौधमलरुन सानुविकाकन एव प्रयोगिक कुरास.
11. एणु एणु पीठ सिन्हा एव डाटा सौमबाल-उत्सुकलुवारी.
12. Sarkar, A. 2015. Practical Geography : A Systematic Approach, 3rd ed, Orient Blackswan Private Ltd.
13. Singh, R. L., Singh, R. P. B. 2008. Elements of Practical Geography, Kalyani Publishers.

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