

M.A. GEOGRAPHY (SEMESTER - I)

Code: GEO-M 111 (Open Course - 01)

Geography (5 Credits)

Time - 3 Hours (ESE)

Total Marks - 100

Exam in March

For questions on Each Semester, Candidates must attempt questions of three parts

2 Year (Four Semester)

Post Graduate Programme

Part - I

The Head of the Department - may specify to be answered questions and to select the subjects to be answered from the questions.

Syllabus for M. A. Geography

(Faculty of Social Science)

Part - II

Under

Choice Based Credit System (CBCS)

Subject Code: GEO-M 111

(To be effective from 2018-19)

L. N. S.
22/1/18

22/1/18

22/1/18

Head
Univ. Dept. 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 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** 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 Landforms, Glaciers,
Underground water and periglacial
- Unit IV** Geomorphic Evolution of :
Chotanagpur Highlands
Peninsular India
Shivalik plateau
Kashmir Himalayas

Dr. N. K. Singh
2/2/11

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Univ. Dept. of Geography
B.P.A. Bihar University
Muzaffarpur

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. Y. K. Sharma - Geomorphology Earth Surfaces
6. Woodrige 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 Engel, Geomorphology
15. Daly : Our Mobile Earth

Unit I **Classification and Evolution of Landforms**
Continental and Marine Geomorphology
Sea-Stacks and Sea-Stacks

Unit II **Geomorphology, Climate and Landforms**
Deserts and Dunes
Soil erosion and its prevention
Topographical Correlations

Unit III **Climate Change - Causes and Consequences**
Global Warming, Ozone and Greenhouse
Effect of Climate Change on the Environment

Unit IV **Geomorphology - Evolutionary aspects of India and World maps**
Subsidence, Capricorn - Theories regarding its origin
World Climate

Unit V **Meaning and Scope of Applied Geomorphology**
Application of Geomorphology in engineering projects and oil exploration
Classification of Drainage basin and Drainage density

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Unit V Geomorphology
B.A. Bharati University
Mumbai

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

Climatology and Oceanography (5 Credits)

Time : 3 Hours (ESE)

Full Marks : 100

ESE : 70 Marks

CLA : 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	Climatology and its Relation with other Sciences Composition and Structure of Atmosphere Heat Budget and Heat Balance
Unit II	airmasses : Characteristics, Classifications and Distribution Fronts 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 Nino 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
CLA	----- 30 Marks

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U.P. Deemed to be University
G. G. Indraprastha University
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GGS Indraprastha

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 Gantam - Jalaya Aban Samadra Vigyan
6. Sharma & Vatal - Oceanography for Geographers
7. Blais, T. A. Climatology - General and Regional
8. Charley, R. J. & Barry, R. G. Atmospheric Weather and Climate
9. Dona, W. L. Meteorology
10. Kendrew, W. G. Climates of the Continents
11. Mahler, J. R. Climatology : Fundamental and Applications, 1974.
12. Rama Sastri, A. A. Weather & Weather Forecasting
13. Ramsey, G. Climatology and the World's climate
14. Springer, Foundation of Climatology
15. Stringer, Techniques in Climatology
16. Trevartha, G. T. An Introduction to Climate
17. Davis, R. J. A. 1986. Oceanography - An Introduction and the Marine Environment, Wm C. Brown, Iowa.
18. Murray, S. J., 1913, Ocean, A. General account of the Science of the sea, Thorson Bunter Worth, London.
19. Siddhartha, K. 1999. Oceanography, A Brief Introduction, Kishlaya 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. Thomson, 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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