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1 SEM PG (CBCS) GG 1D3

2023

(December)

GEOGRAPHY

Paper : GG-1D3

(World Regional Geography)

Full Marks : 60

Pass Marks : 27

Time : Three hours

**The figures in the margin indicate
full marks for the questions.**

UNIT-I

1. Divide Asia into physiographic divisions and discuss the mountainous region and its impact on the climate of Asia. 2+8=10

Or

Write about the industrial regions of Asia with special reference to India. 10

Contd.

2. Write a short note on **any one** of the following: 5

- (a) Shifting cultivation in Asia
(b) Major drainage basins of Asia

UNIT-II

3. Give an account of climatic condition of Europe and discuss its impact on agricultural production in the continent. 10

Or

Critically evaluate the soil types and vegetation of Europe.

4. Write a short note on **any one** of the following: 5

- (a) Vegetation of Europe
(b) Industries of Europe

UNIT-III

5. Explain the vegetation types and distribution of North America and its relation with climatic condition. 10

Or

Describe the physiographic divisions of South America and write about the significance of the Andes Mountain in South America.

6. Write a short note on **any one** of the following: 5

- (a) Industries of North America
(b) Soil types of South America

UNIT-IV

7. Give an account of the soil types of Africa. Explain how climatic condition impacts on the distribution of vegetation in the continent. 10

Or

Discuss the physiographic divisions of Australia.

8. Write a short note on **any one** of the following: 5

- (a) Deserts of Africa
(b) Dairy Industry of Australia

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2 SEM PG (CBCS) GG 2G2

2024

(June)

GEOGRAPHY

Paper : GG 2G2

(Climatology and Oceanography)

Full Marks : 60

Pass Marks : 27

Time : Three hours

**The figures in the margin indicate
full marks for the questions.**

UNIT-I

1. Discuss the factors influencing insolation.
Explain the heat balance with a suitable
diagram. 5+5=10

Or

Analyze the hydrological cycle mechanism
and assess its present-day impact on the
global environment, give recent examples to
support your evaluation. 5+5=10

Contd.

2. Write a short note from **any one** of the following : 5
- Evapotranspiration
 - Structure of atmosphere

UNIT-II

3. Discuss the origin of the monsoon, and which conceptual framework do you find most compelling in explaining its formation and dynamics ? 4+6=10

Or

Examine the intricate forces influencing atmospheric circulation, emphasizing the terrestrial wind patterns prevalent globally. 5+5=10

4. Write a short note from **any one** of the following : 5
- Types of Air mass
 - Fronts and climatic effect

UNIT-III

5. Briefly explain the processes of temperature and salinity dynamics in the ocean. Give examples demonstrating how salinity is balanced. 5+5=10

Or

Give a brief overview of the factors influencing coral reefs, emphasizing their importance, and discuss strategies for their conservation. 5+5=10

6. Write a short note from **any one** of the following : 5
- Classifications of ocean deposit
 - Ocean as mineral house

UNIT-IV

7. Describe the formation of tide and advocate its utility in present-day context. 10

Or

Justify the global problem of rising sea levels, citing examples to support your argument.

8. Write a short note from **any one** of the following : 5
- Human adaptation in marine environment
 - Management of waves in coastlines

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2 SEM PG (CBCS) GG 2C1

2024

(June)

GEOGRAPHY

Paper : GG 2C1

(Social Geography of India)

Full Marks : 60

Pass Marks : 27

Time : Three hours

***The figures in the margin indicate
full marks for the questions.***

UNIT-I

1. Discuss the interdisciplinary nature of social geography and its significance in understanding human-environment interactions and spatial patterns of social phenomena. 10

Or

Examine the role of social geography in addressing major social and environmental issues in India.

Contd.

2. Write a short note on **any one** of the following : $1 \times 5 = 5$

(a) Contributions of early Indian geographers to the study of social phenomena

(b) Scope of social geography

UNIT-II

3. Discuss the historical origins of the caste system in India, tracing its evolution from ancient texts. Analyze the factors that contributed to the development and perpetuation of the caste system. $5+5=10$

Or

Discuss the factors influencing the spatial distribution of caste-based neighbourhoods in rural areas. Analyze the role of caste in shaping rural settlement hierarchies.

$6+4=10$

4. Write a short note on **any one** of the following : $1 \times 5 = 5$

(a) Geographical distribution of tribal communities across different states and regions of India

- (b) Describe the efforts to address caste-based inequalities and promote social justice

UNIT-III

5. Define Religion. Discuss Religious Diversity in India. $2+8=10$

Or

Explain the relationship between Religion and Geography with suitable example. 10

6. Write a short note on **any one** of the following : $1 \times 5 = 5$

(a) Religious identity

(b) Buddhism

UNIT-IV

7. Define language. Explain the distribution of Indo-Aryan Languages in India. $3+7=10$

Or

Discuss the formation of linguistic states in India and its consequences. $7+3=10$

8. Write a short note on **any one** of the following : 1×5=5

(a) Differentiate language and dialects

(b) Language shift and its retention

Total number of printed pages-3

2 SEM PG (CBCS) GG 2C2

2024

(June)

GEOGRAPHY

Paper : GG 2C2

(Fundamentals of Geoinformatics)

Full Marks : 60

Pass Marks : 27

Time : Three hours

**The figures in the margin indicate
full marks for the questions.**

1. Explain the concept of EMR. Discuss the energy interaction with the earth surface with suitable diagram. 4+6=10

Or

2. Explain the process of remote sensing with suitable diagram. Write four advantages of remote sensing. 6+4=10

Contd.

2. Write short note on : **(any one)** 5
(a) Atmospheric window
(b) Any five elements of visual image interpretation

3. Write briefly about the history of space imaging. 10

Or

Explain the four resolution of sensors with suitable example.

4. Write short note on : **(any one)** 5
(a) Active and passive sensors
(b) Indian remote sensing

5. Define unsupervised classification. Explain with suitable diagram K-means and isodata. 2+8=10

Or

Define image enhancement. Explain linear contrast enhancement and non-linear contrast enhancement. 2+(4+4)=10

6. Write short note on : **(any one)** 5
(a) Ground truthing
(b) Sources of errors in image data

7. Explain the components of GIS. 10

Or

Discuss the application of GIS in geographical studies.

8. Write short note on : **(any one)** 5
(a) Spatial and Attribute data
(b) Raster and Vector data

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2 SEM PG (CBCS) GG 2C2

2024

(June)

GEOGRAPHY

Paper : GG 2C2

(Fundamentals of Geoinformatics)

Full Marks : 60

Pass Marks : 27

Time : Three hours

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full marks for the questions.***

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2 SEM PG (CBCS) GG 2D2

2024

(June)

GEOGRAPHY

Paper : GG 2D2

(Fundamentals of Fluvial Geomorphology)

Full Marks : 60

Pass Marks : 27

Time : Three hours

***The figures in the margin indicate
full marks for the questions.***

UNIT-I

1. Explain the interrelationship between fluvial geomorphology and hydrology. How do water flow dynamics influence landforms and sediment transport processes in river systems ? 7+3=10

Contd.

Or

What is sedimentology and how does it relate to fluvial geomorphology? How do sediment cores and stratigraphic analysis provide insights into past fluvial processes and environmental changes? 6+4=10

2. Write short note on **any one** : 1×5=5

(a) Modern techniques used in fluvial geomorphological studies.

(b) Key landforms and features associated with fluvial systems.

UNIT-II

Explain the concept of drainage basin as a fundamental geomorphic unit and its role in shaping landscape evolution and hydrological processes. 10

Or

Discuss various types of runoff. Explain the factors controlling runoff generation. 5+5=10

4. Write short note on : **(any one)** 1×5=5

(a) Influence of land use and land cover changes on runoff generation and hydrological response in a drainage basin

(b) Role of human activities in altering the balance of inputs and outputs in a drainage basin

UNIT-III

5. Define the concept of grade in fluvial geomorphology and explain its significance in understanding river profiles. Discuss the factors influencing the attainment of grade in river channels. 5+5=10

Or

Describe the at-a-station and downstream approaches to hydraulic geometry analysis and their respective advantages and limitations. Discuss the key parameters analyzed in hydraulic geometry studies. 6+4=10

6. Write short note on : **(any one)** $1 \times 5 = 5$

(a) Main forces acting in a river channel interact to control the movement and behaviour of water

(b) Different types of flow regimes in rivers

UNIT-IV

7. Explain the key factors influencing the development of meandering channels. Discuss the development and evolutionary processes of meandering channels.

$5 + 5 = 10$

Or

Define channel changes in the context of fluvial geomorphology and explain their significance in understanding river dynamics and landscape evolution. 10

8. Write short note on : **(any one)** $1 \times 5 = 5$

(a) Concept of channel metamorphosis

(b) Factors controlling channel evolution
