

2023

GEOGRAPHY — HONOURS

Paper : CC-11

(Research Methodology and Fieldwork)

Full Marks : 50

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Category - A

Answer *any five* questions (each within 50 words).

2×5

1. Mention two styles of referencing.
2. Why do we need pre-field academic preparations?
3. When do we need to provide a citation?
4. Define cluster analysis.
5. What is the purpose of using 'keywords' in research articles?
6. State the characteristics of Likert Scale.
7. What is sampling error?

Category - B

Answer *any four* questions (each within 150 words).

5×4

8. Differentiate between structured and non-structured questionnaire.
9. State the differences between hypothesis and theory.
10. What is the purpose of abstract?
11. Mention the features of non-participant observation.
12. What are the advantages and disadvantages of landscape survey by radio recording?
13. How is inventory prepared from fieldwork?

Please Turn Over

Category - C

Answer *any two* questions (each within 500 words).

14. Write a short note on the techniques of writing a scientific report. Discuss with emphasis on references and bibliography. 10
 15. Write a note on plagiarism and its prevention. 6+4
 16. Discuss the objectives of literature review. What is research gap? 8+2
 17. Describe the uses of transects and quadrats in research in geography. What is belt transect? 8+2
-

2023

GEOGRAPHY — HONOURS

Paper : CC-12

(Remote Sensing, GIS and GNSS)

Full Marks : 50

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Group - A

Answer *any five* of the following questions (each within 50 words).

2×5

1. Define raster data.
2. Define swath.
3. What is a standard FCC?
4. What is SRTM?
5. What is topology?
6. What is differential GPS?
7. What are the two main carrier frequencies of GPS?

Group - B

Answer *any four* of the following questions (each within 150 words).

5×4

8. Explain various interactions of incident EM energy with the atmosphere.
9. What are the advantages and disadvantages of remote sensing?
10. State the different types of resolution of a sensor.
11. Distinguish between supervised and unsupervised classification of satellite data.
12. Explain the concept of buffer zone in GIS mentioning its significance in spatial analysis.
13. State the various factors that affect the accuracy of GNSS positioning.

Please Turn Over

Group - C

Answer *any two* of the following questions (each within 500 words).

10×2

14. Explain the spectral reflectance characteristics of water and vegetation in different spectral bands.
 15. Discuss the relative advantages and limitations of SRTM and CartoDEM over Survey of India topographical maps.
 16. Explain the principles and significance of overlay analysis in GIS.
 17. Explain the working principles of GPS.
-

2023

GEOGRAPHY — HONOURS

Paper : DSE-A-1 and DSE-A-2

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Paper : DSE-A-1

(Fluvial Geomorphology)

Full Marks : 50

Category - A

Answer *any five* questions (each within 50 words).

2×5

1. Define meandering channel.
2. Differentiate between pools and riffles.
3. What is ecological flow of a river?
4. What is Hjulström curve?
5. How are badlands formed?
6. Define fluvial morphodynamics.
7. A drainage basin is considered to be a system. — Justify.

Category - B

Answer *any four* questions (each within 150 words).

5×4

8. Write a short note on morphology of alluvial fan.
9. Discuss Horton's law of stream number.
10. How do channel forms adjust to climatic change?
11. Discuss the bases of Rosgen's stream classification.
12. State the different causes of river bank erosion.
13. Distinguish between paired and unpaired terraces of river.

Please Turn Over

Category - C

Answer *any two* questions (each within 600 words).

10×2

14. Justify the various types of human interventions on fluvial systems with suitable examples.
15. Explain the formation of major accretional topography under fluvial environment.
16. Discuss in brief the areal and linear properties of drainage basin.
17. Discuss the principles of Integrated Watershed Management with suitable example.

Paper : DSE-A-2**(Climate Change : Vulnerability and Adaptations)****Full Marks : 50****Category - A**Answer *any five* questions (each within 50 words).

2×5

1. What is meant by carbon trading?
2. Define the term — 'Holocene climate optimum'.
3. What is atmospheric window?
4. Mention four impacts of climate change on flora and fauna.
5. Define the science of climate change.
6. Write two steps that can be taken by educational institutions for awareness generation on climate change.
7. What are the salient features of 'National Solar Mission'?

Category - BAnswer *any four* questions (each within 150 words).

5×4

8. Mention the impacts of global warming on human health.
9. Highlight the role of climate fund in mitigating adverse climatic changes in developing countries.
10. State the salient features of National Action Plan for climate change in India.
11. What are the basic tenets of Kyoto Protocol?
12. Explain, in brief, the role of urban local bodies on climate change mitigation.
13. Distinguish between 'adaptation' and 'mitigation' in relation to climate change with the help of suitable examples.

Please Turn Over

Z(5th Sm.)-Geography-H/DSE-A-1 & DSE-A-2/CBCS

(4)

Category - C

Answer *any two* questions (each within 500 words).

- 14. Review few geological evidences and records to prove the paleoclimatic change. 10
 - 15. Summarize the key findings of global climate assessment with reference to IPCC reports. 10
 - 16. Discuss the economic and social vulnerability of climate change with suitable examples. 10
 - 17. Analyse the climate change vulnerability of South Asia with suitable examples. 10
-

2023

GEOGRAPHY — HONOURS

Paper : DSE-B-1 and DSE-B-2

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Paper : DSE-B-1

(Cultural and Settlement Geography)

Full Marks : 50

Category - A

Answer *any five* questions (each within 50 words).

2×5

1. Define 'Ghetto'.
2. What is dry Point settlement?
3. Define cultural realm.
4. Give the concept of city regions.
5. Define towns according to the Census of India.
6. Define C.B.D.
7. What is a 'Suburb'?

Category - B

Answer *any four* questions (each within 150 words).

5×4

8. Differentiate cultural regions from cultural landscapes.
9. Explain the role of climate on rural house types.
10. How does social segregation influence the morphology of rural settlements?
11. Discuss the causes and consequences of urban sprawl.
12. State the role of language in creation of cultural region.
13. Explain the scheme of functional classification of cities after Harris.

Please Turn Over

Category - C

Answer *any two* questions (each within 500 words) :

- | | |
|---|-----|
| 14. Describe the factors affecting the site and situation of a rural settlement. | 5+5 |
| 15. Mention the stages of cultural diffusion. Bring out the role of technology in cultural diffusion. | 6+4 |
| 16. Critically discuss the model on urban morphology as propounded by Homer Hoyt. | 10 |
| 17. Divide India into major cultural regions mentioning the factor included in the scheme. | 10 |
-

Paper : DSE-B-2
(Social Geography)
Full Marks : 50

Category - A

Answer *any five* questions (each within 50 words).

2×5

1. How is 'caste' different from 'race'?
2. Mention four measures of social well-being.
3. Mention the salient features of Pradhan Mantri Awas Yojana (PMAY).
4. What is meant by social stratification?
5. Define social distance.
6. How is gender different from sex?
7. What is social behaviour?

Category - B

Answer *any four* questions (each within 150 words).

5×4

8. What is meant by social justice?
9. Mention how Gated Communities create Social exclusion.
10. How does migration lead to crisis of identity?
11. What are the problems of healthcare sector of India?
12. What are the different types of social processes? – Explain.
13. What measures can be taken to reduce the crime rate in urban areas?

Please Turn Over

Z(5th Sm.)-Geography-H/DSE-B-1 & DSE-B-2/CBCS (4)

Category - C

Answer *any two* questions (each within 500 words).

10×2

14. Elucidate the role of technology and occupational change on social behaviour.
 15. Discuss the social and cultural consequences of rural male outmigration in India with suitable examples.
 16. Discuss the fundamental principles of the National Education Policy, 2020.
 17. Give an account of the socio-cultural regions of India.
-