



B.Sc./3rd Sem (H)/GEO/25(CBCS)

2025

3rd Semester Examination

GEOGRAPHY (Honours)

Paper : SEC 1-T

[CBCS]

Full Marks : 40

Time : Two Hours

The figures in the margin indicate full marks.

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

[Coastal Management]

Group - A

Answer any *five* questions : $2 \times 5 = 10$

1. Distinguish between coast line and shore line.
2. What is shore normal current?
3. What are the non-structural measures of coastal management?
4. Define coast as a system.
5. How does tidal asymmetry affect estuarine sedimentation?
6. What is the importance of CRZ?

P.T.O.

(2)

7. Mention the importance of EEZ.
8. What are the main causes of dune degradation?

Group - B

Answer any *four* questions : $5 \times 4 = 20$

9. Explain the impacts salt manufacturing in the coastal zone.
10. What are the environmental impacts of land reclamation in the Sundarbans?
11. "Tourism activities affect the coastal environments"
— Explain with examples from India.
12. Explain the management procedures of coastal erosion with special emphasis on West Bengal coast.
13. Classify coastal regulation zones in India as per 2018 amendment.
14. Explain the process of estuarine sedimentation.

Group - C

Answer any *one* question : $10 \times 1 = 10$

15. Explain the nature of interactions of coastal morphodynamic variables along with the resultant landforms.
 16. Discuss the importance of soft engineering structure over hard engineering structure concerning hazard management along coast.
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(3)

OR

[Computer Basics and Computer Application]

Group - A

Answer any *five* questions : $2 \times 5 = 10$

1. Define a numbering system and give two examples.
2. What is Boolean logic gate? Give one example.
3. What is the difference between mean and median?
4. Define correlation and covariance.
5. Why is the scatter diagram a popular choice for data analysis?
6. Mention two common spreadsheet functions used to compute standard deviation.
7. What is cloud computing?
8. Explain moving average in brief.

Group - B

Answer any *four* questions : $5 \times 4 = 20$

9. Explain binary arithmetic with an example of addition and subtraction of binary numbers.
10. Describe basic logic gates (AND, OR, NOT) with truth tables.

	0	1	
0	0	1	
1	1	0	

P.T.O.

(4)

11. Write short note on the application of histogram in data interpretation.
12. Explain the computation of mean, median, mode, and standard deviation in a spreadsheet with examples.
13. Discuss the process of deriving correlation and regression using spreadsheet data.
14. Describe internet surfing for information extraction and mention two advantages of cloud drive sharing.

Group - C

Answer any *one* question : $10 \times 1 = 10$

15. (a) Explain Boolean logic reduction techniques with a suitable example.
- (b) Prepare an annotated scatter diagram for the following data and estimate the slope of the regression line by taking pairwise $\Delta Y / \Delta X$ ratio.

X	2	4	6	8	10
Y	3	7	5	11	9

4+6

16. A spreadsheet contains the following data on marks obtained by students :

Student	Marks1	Marks2	Marks3	Marks4
A	70	65	75	80
B	60	75	70	65
C	80	85	90	95

(5)

Calculate :

- (i) Mean, median, mode, and standard deviation of Marks 1.
 - (ii) Moving average of Marks 2 with a window of 2.
 - (iii) Correlation coefficient between Marks 1 and Marks 3.
- 4+3+3
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