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B.Sc./5th Sem (H)/GEOH/22(CBCS)

2022

**5th Semester Examination  
GEOGRAPHY (Honours)**

**Paper : DSE 1-T**

**[CBCS]**

Full Marks : 60

Time : Three Hours

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

**[Hydrology and Oceanography]**

**Group - A**

Answer any *ten* of the following questions :

2×10=20

1. Define evapotranspiration.
2. Distinguish between infiltration and percolation.
3. What is watershed management?
4. Differentiate between overland flow and surface run-off.
5. Define Darcy's law of ground water movement.
6. Distinguish between continental shelf and continental slope.
7. What does T-S diagram indicate?
8. Define BOD and COD.

P.T.O.

( 2 )

9. Distinguish between ocean drift and ocean current.
10. Distinguish between wave and tide.
11. What is thermocline?
12. Distinguish between photic and aphotic zone.
13. What is amphidromic point?
14. What is Exclusive Economic Zone?
15. What is sustainable use of marine resources?

**Group - B**

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

16. Explain the biological role of hydrological cycle.
17. Elucidate the major principles of water harvesting.
18. Discuss the methods of recharge and discharge of ground water.
19. Briefly discuss different types of coral bleaching.
20. Why are tides delayed by 26 minutes every day?
21. What are the major causes of sea level change?

**Group - C**

Answer any *two* of the following questions :  
 $10 \times 2 = 20$

22. Classify Ocean sediments according to their origin. How does green mud formed?

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23. River basin is considered as a hydrological unit. — Explain with suitable illustration.
24. Explain the origin of major relief features of the ocean floor with the help of plate tectonics.
25. Briefly discuss the Progressive wave theory of William Whewell regarding the origin of tide.

P.T.O.

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OR

[Geography of Health and Wellbeing]

Group - A

Answer any *ten* of the following questions :

2×10=20

1. What is Covid-19?
2. Define Geography of health.
3. What is WASH initiative?
4. Why disease is related to Geography?
5. What links poverty and poor health?
6. Define Malnutrition.
7. What is COPD?
8. Define Medical geography.
9. What are Health inequities?
10. Define Biological Agents of disease.
11. What is Acid Rain?
12. How does Housing increase health risk?
13. What type of disease is Obesity?
14. How immigration affect health issue?
15. What are hazardous household wastes and associated health risks?

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Group - B

Answer any *four* of the following questions : 5×4=20

16. Mention the effects of urbanization on health.
17. Make a short note on geographical perspective of health in developed countries.
18. Differentiate between Communicable and Non-Communicable Diseases.
19. Mention the potential Health Risks at workplace.
20. Why environmental issues are regarded as causes of disease and poor health in India?
21. Highlight the social determinants of health.

Group - C

Answer any *two* of the following questions :

10×2=20

22. Discuss about the linkages of Health with Environment and Development.
23. Give an account of the parameters of health and wellbeing.
24. Discuss the types of lifestyle diseases and their causative factors.
25. Assess the impact of Climate Change on Morbidity.

P.T.O.

( 6 )

OR

[Cultural and Settlement Geography]

Group - A

Answer any *ten* of the following questions :  
2×10=20

1. What do you mean by cultural Hearth?
2. Define acculturation.
3. Differentiate between race and ethnicity.
4. What is cultural divergence?
5. Mention two problems associated with Islamic cultural realm.
6. How does language differ from dialect?
7. What is a census town?
8. What do you mean by Ghetto?
9. What is a commuter zone?
10. What do you mean by site and situation?
11. Differentiate between settlement type and pattern.
12. What is CBD?
13. Mention the characteristics of rural-urban fringe.
14. Define Conurbation.
15. Where are the Nordics observed in India?

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Group - B

Answer any *four* of the following questions : 5×4=20

16. Write the major characteristics of the Occidental cultural realm.
17. Give an account on the types of cultural diffusion.
18. Mention the racial group of India after Risley.
19. What are the major factors affecting the settlement pattern?
20. Briefly discuss the concept of city region.
21. Write the causes of social segregation in rural areas.

Group - C

Answer any *two* of the following questions :  
10×2=20

22. Explain the role of language and religion as determinants of cultural regions in India.
23. How does culture determine technological development? Write the impacts of technology on our traditional culture and social values.
24. Critically examine the Harris and Ullman multiple nuclei model considering the present day urban morphology.
25. Classify Indian cities on the basis of function with examples.

2022

B.Sc. (Honours)

5<sup>th</sup> Semester Examination

Paper- C12P

Remote Sensing and GIS

Full Marks: 20

Time: 3Hours

Figures in the margin indicate full marks. Candidates are required to give their answers in their own word as far as practicable.

Answer either question 1 or 2

1. (a). Describe the basic steps of supervised image classification using IRS LISS-III data to bring out landuse/ land cover characteristics of an area.
1. (b). Graphically plot the following waypoints derived from GNSS survey.

Waypoint Id	WGS-84 UTM 45-R Coordinates	
	Easting	Northing
A	607,678	2,769,702
B	606,799	2,770,371
C	606,600	2,771,750
D	607,940	2,771,798

7+8

- 2 (a). Georeference the scanned map and prepare a vector layout thereby digitizing the boundary observed in the map.
- 2 (b). What is Database in GIS? Mention the functions of BDMS.
3. Laboratory Notebook and Viva-voce

10+5

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