



DIAMOND HARBOUR WOMEN'S UNIVERSITY

M.A./M.Sc. 2<sup>nd</sup> SEMESTER EXAMINATION 2022

Subject: Geography

Paper: GEO/CC/TH/201

HYDROLOGY AND OCEANOGRAPHY

Time: 2 hrs

Full Marks: 40

*The figures in the margin indicate full marks*

*Answer any four questions selecting one from each Unit*

**Unit-I: Hydrology Concepts**

1. Elucidate the modern methods of rainfall measurement by highlighting their advantages. Give a brief account on hydrological data sources in India. 4+6
2. What is meant by ground water contamination? State the major sources of it. What are the major consequences of it on human health? 2+4+4

**Unit-II: Hydrology – Applications and Management**

3. Why is water management important in agriculture sector? Elucidate water management techniques practiced in the farmlands of India. 3+7
4. What is meant by integrated river basin management? Critically analyse the major issues related to damming of large rivers. 3+7

**Unit-III: Oceanography Concepts**

5. Explain the motion of water particles in an ocean wave. Write a short note on 'Ekman transport'? 7+ 3
6. State the relationship between sea floor spreading and ocean basin dynamics. Explain the origin of major topographic features of the ocean basin in light of plate tectonics. 4+6

**Unit-IV: Oceanography – Resource and Utilisation**

7. Elaborate various processes causing variation of seawater salinity globally. What is thermohaline circulation? 7+ 3
8. What is the significance of UNCLOS? Throw light on the major issues resolved through UNCLOS. 2+8

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Subject: Geography

Paper: GEO/CC/TH/202

SOIL AND BIOGEOGRAPHY

Time: 2 hrs

Full Marks: 40

*The figures in the margin indicate full marks*

*Answer any four questions selecting one from each Unit*

**Unit-I: Soil Geography**

1. Define soil moisture. Give an idea about the different forms of soil moisture. Differentiate between particle density and bulk density of soil. 2+6+2
2. What is humus? Illustrate the role of organic matter on soil fertility. Write a short note on plant nutrients in the soil. 2+5+3

**Unit-II: Plant Geography**

3. Write a brief account on the phytogeographical regions of India. What are the effects of plant domestication on human civilization? 6+4
4. Illustrate the environmental effects of deforestation. What are the advantages and disadvantages of social forestry? 6+4

**Unit-III: Zoo Geography**

5. Enumerate dispersal of animals during Mesozoic and Cenozoic Era. What do you understand by endangered species? 8+2
6. Present a scheme of division of world into different zoogeographical realms and discuss any one in detail. Enumerate the major principles of wildlife Management in India. 7+3

**Unit-IV: Ecosystem and Ecology**

7. Briefly discuss about ecosystem model. Define human ecology. Specify the relevance and applicability of human ecology. 3+2+5
8. Elaborate the major threats to the mangroves of Indian Sundarbans due to anthropogenic activities. What type of measures may be taken to protect the mangroves of this region? 6+4





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Subject: Geography

Paper: GEO/CC/TH/203

POPULATION & SETTLEMENT GEOGRAPHY

Time: 2 hrs

Full Marks: 40

*The figures in the margin indicate full marks*

*Answer any four questions selecting one from each Unit*

**Unit - I Population Concepts**

1. Distinguish between stable and stationary population. Analyse the Indian aging scenario and highlight the policies addressing the issues of elderly care services. 2+5+3
2. What is age cohort? State the major types of population pyramids and explain how age-sex structure influences national population policies. 2+5+3

**Unit II: Population Theories and Policies**

3. Compare the population growth theories of Malthus and Marx. What is meant by social capillarity? 8+2
4. Analyse Lee's model of migration in detail. In which stage of Zelinsky's Migration transition model India belongs to, specify with reasons? 7+3

**Unit-III: Rural Settlement**

5. Differentiate between rural and urban settlements in detail. What is meant by rural -urban linkage? 7+3
6. Discuss Hudson's theory of evolution of rural settlements. Enumerate major features of rural settlements in the Thar desert region of India. 7+3

**Unit-IV: Urban Settlement**

7. Discuss the Mann's Model on Urban Structure. What do you understand by statutory town? Give an idea about urban hierarchy? 5+2+3
8. Enumerate the characteristics of Primate City with suitable examples. What is the difference between Primate city rule and Rank size rule. What is HRIDAY scheme of urban policy in India? 4+3+3

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Subject: Geography

Paper: GEO/CC/TH/204

SOCIAL & CULTURAL GEOGRAPHY

Time: 2 hrs

Full Marks: 40

*The figures in the margin indicate full marks  
Answer any four questions selecting one from each Unit*

**Unit-I: Concepts in Social Geography**

1. Discuss the concept of social well-being? Write in detail about Social Development Index (SDI). 5+5
2. 'Development not engendered is development endangered'- explain. Enumerate important measures of gender disparity. 7+3

**Unit -II: Social System and Elements**

3. Analyse how social structure influences societal position. Write about the different associative social processes and its resultant impact on society. 4+6
4. What is malnutrition? Write an analytical note on global governance of food security. Write in brief about the National Food Security Act, 2013. 2+5+3

**Unit-III: Cultural Geography**

5. Distinguish between Cultural realm and Cultural Hearth. Enumerate the characteristics of the Occidental and Indic cultural realms of the world. 4+6
6. Discuss the types of cultural diffusion with suitable examples. What do you mean by cultural turn? 7+3

**Unit-IV: Social-cultural Relations**

7. Discuss in detail the concept of cultural landscape after Carl O Sauer. Write in brief about the techno-centric concept of cultural development. 6+4
8. Discuss acculturation as a process of cultural change, with suitable examples. Differentiate between acculturation and assimilation. 6+4