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ANNA UNIVERSITY (UNIVERSITY DEPARTMENTS)

B.E. /B.Tech / B. Arch (Full Time) - END SEMESTER EXAMINATIONS, APRIL / MAY 2024

GEOINFORMATICS

VI Semester

GI5001 & CLIMATE CHANGE STUDIES

(Regulation 2019)

Time: 3hrs

Max. Marks: 100

CO1	Understand the basic concepts of climate and climate change
CO2	Understand the natural and human impacts on climate change.
CO3	Understand the various methods to assess the evidence for climate change
CO4	Understanding the climate change effects like Global warming, impacts on Agriculture, water body, health and their adaptations
CO5	Understand the climate models to predict the climate and adaptation techniques for future

BL – Bloom's Taxonomy Levels

(L1-Remembering, L2-Understanding, L3-Applying, L4-Analysing, L5-Evaluating, L6-Creating)

PART - A(10x2=20Marks)

(Answer all Questions)

Q.No.	Questions	Marks	CO	BL
1	Differentiate the climate and weather.	2	1	2
2	List the factors influencing the climate change.	2	1	1
3	How do human activities contribute to climate change.	2	2	1
4	How urbanization influence the climate change?	2	2	2
5	List the indicators of vegetation for climate change.	2	3	1
6	State the Sea level rise prediction by IPCC.	2	3	1
7	What are the natural sources of forest fire	2	4	2
8	List the renewable energy sources.	2	4	1
9	List the components of climate model.	2	5	1
10	List the sources of Ozone depletion substances.	2	5	1

PART - B(5x 13=65 Marks)

(Restrict to a maximum of 2 subdivisions)

Q.No.	Questions	Marks	CO	BL
11 (a)	Explain the Milankovitch's theory and its impact on Climate change	13	1	2
OR				
11 (b)	Discuss the impacts of earthquakes and volcanoes on climate change.	13	1	2
12 (a)	Explain the impact of agriculture on climate change and climate change impact on agricultural activities.	13	2	3
OR				
12 (b)	Evaluate the effectiveness of current solid waste management policies in mitigating climate change and address issues like waste reduction, recycling, and landfill emissions	13	2	3

13 (a)	How do archaeological evidences contribute to the understanding of past climate change events and patterns?	13	3	3
OR				
13 (b)	Analyze the scientific evidences supporting the link between climate change and sea level rise with case study.	13	3	3
14 (a)	How would you apply your understanding of climate change impacts on water resources to develop a sustainable water management?	13	4	3
OR				
14 (b)	Propose a plan for adapting sustainable land use practices to mitigate the impacts of climate change.	13	4	3
15 (a)	Compare the different basic types of climate models with advantages and challenges.	13	5	4
OR				
15 (b)	Analyze the effectiveness of different carbon sequestration methods in mitigating climate change.	13	5	4

PART- C(1x 15=15 Marks)
(Q.No.16 is compulsory)

Q.No.	Questions	Marks	CO	BL
16.	Evaluate the suitability and impact of various climate change adaptation technologies on Indian agriculture.	15	4	5

