

### Part B- Descriptive

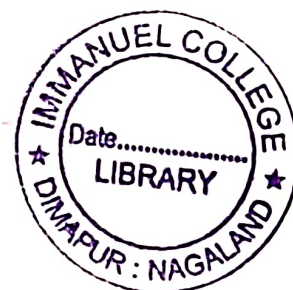
Marks: 25

Answer any five questions.

(5x5= 25)

1. Explain how climate change affects human health.
2. Discuss the impact of climate change on biodiversity.
3. Discuss the concept of structural economic vulnerability.
4. What is greenhouse effect? Give four main greenhouse gases and explain their emission to the atmosphere.
5. What is IPCC? Discuss the role of IPCC on climate change.
6. Explains the role of local institutions in adaptation and mitigation to climate change.
7. Discuss the measures taken up by the National Action Plan of India.
8. Write notes on
  - a) Sea-Level Rise
  - b) Land Erosion

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**Subject : Interdisciplinary Paper**

Paper Code : IDP-2/CCVA (CP)

**Title of the Paper : Climate change, Vulnerability and Adaptation**

**Full Marks : 37½**

**Pass Marks : 40%**

**Time: 2 hours**

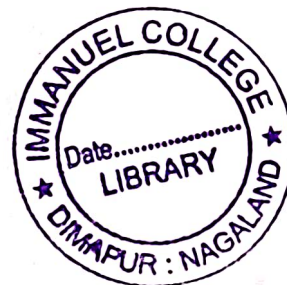
(PART : A – OBJECTIVE)

(Marks -12½)

*The figures in the margin indicate full marks for the questions*

**A. Tick (✓) mark the correct answer : (½ x 15 = 7½)**

1. Which of the following gas is the primary greenhouse gas?  
 a) SO<sub>2</sub> ( )                      b) CO<sub>2</sub> ( )  
 c) N<sub>2</sub>O ( )                      d) Cl<sub>2</sub> ( )
2. Plants absorb CO<sub>2</sub> gas to proceed  
 a) Respiration ( )                      b) Transpiration ( )  
 c) Photosynthesis ( )                      d) None of the above ( )
3. The Headquarter of IPCC is situated in  
 a) New York ( )                      b) Paris ( )  
 c) London ( )                      d) Geneva ( )
4. The main source of greenhouse gases is  
 a) Agriculture ( )                      b) Deforestation ( )  
 c) Fossil Fuel ( )                      d) Ocean ( )
5. The rocks which cause contamination of underground water are called  
 a) desalinators ( )                      b) aquifers ( )  
 c) conductors ( )                      d) None of the above ( )
6. Exposure of people or individuals to stress as a result of the impacts of the climate change is  
 a) Physical Vulnerability ( )                      b) Economic Vulnerability ( )  
 c) Social Vulnerability ( )                      d) Ethnic Vulnerability ( )
7. The concept of social vulnerability derives from ongoing research in  
 a) Disaster ( )                      b) Developmental ( )  
 c) Socio-geographic Sciences ( )                      d) All the above ( )
8. Amplified warming in the Arctic has to contribute to  
 a) thawing permafrost ( )                      b) retreat of glaciers ( )  
 c) both (a) & (b) ( )                      d) None of the above ( )
9. World Health Organization calls climate change as one of the biggest threats to  
 a) global economic ( )                      b) global health ( )  
 c) global industrialization ( )                      d) global infrastructure ( )
10. What is the major consequence of climate change in South Asia?  
 a) Sea Level rise ( )                      b) Volcanic eruption ( )  
 c) Receding Ocean ( )                      d) earthquake ( )
11. Which of the following is a mission of National Action Plan?  
 a) National Emergency Efficiency ( )                      b) National Mission for Food Security ( )  
 c) National Solar Mission ( )                      d) National Mission of Economic development ( )



(turn over)

12. The crucial role of local institutions in combating climate change comprises of  
a) justification ( ) b) adaptation ( )  
c) both (a) & (b) ( ) d) none of the above ( )
13. Which of the following is the component of climate?  
a) Electricity ( ) b) Sunlight ( )  
c) Land Erosion ( ) d) Water ( )
14. The role IPCC working group-III is the preparation of assessment and social reports on  
a) Adaptation of Climate change ( ) b) Impact of Climate change ( )  
c) Mitigation of Climate change ( ) d) Physical Science Basis ( )
15. The Solar energy that is reflected back to the atmosphere by earth is called  
a) Ultraviolet Radiation ( ) b) Infrared Radiation ( )  
c) Nuclear Radiation ( ) d) Alpha Radiation ( )

**B. Answer / Write notes on any five of the following:**

(1x5= 5)

1. What is Ozone- depletion?



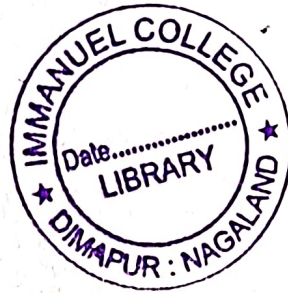
2. Social Vulnerability

3. Impact of climate change on water

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4. What are Aerosols?

5. What is Carbon Sink?



6. Green India Mission

7. Climate Change mitigation