

(English)

2025 (FYUGP)  
NAGALAND UNIVERSITY  
2<sup>nd</sup> semester  
Paper Code: MDC-2

University Roll no: \_\_\_\_\_

Regn. No: \_\_\_\_\_

Subject: \_\_\_\_\_

**(Climate Change Vulnerability and Adaptation)**

Full Marks: 37.5

Pass marks: 40%

**A. Objective type**

**I. Tick the correct answer**

**0.5 x 15 = 7.5**

1. When was the IPCC established?

- A. 1980                      B. 1988                      C. 1992                      D. 2000

2. Which two organizations established the IPCC?

- A. UNEP and WMO                      B. UNDP and IMF  
C. WHO and WTO                      D. UNESCO and UNFCCC

3. How often are the IPCC Assessment Reports typically released?

- A. Every year                      B. Every two years  
C. Every 5 to 7 years                      D. Every decade

4. What is the primary greenhouse gas responsible for climate change?

- A. Nitrogen                      B. Carbon Dioxide                      C. Oxygen                      D. Hydrogen

5. What international agreement aims to reduce global greenhouse gas emissions?

- A. Kyoto Protocol                      B. Geneva Convention  
C. Montreal Protocol                      D. Bretton Woods Agreement

6. Which country emits the most CO<sub>2</sub> overall?

- A. India                      B. United States                      C. China                      D. Russia

7. What is the effect of melting polar ice caps?

- A. Decrease in sea level                      B. More rainfall in deserts  
C. Rise in sea level                      D. Increase in land area

8. Which gas is NOT a greenhouse gas?

- A. Methane                      B. Nitrous oxide                      C. Oxygen                      D. Water vapour

9. What is the primary greenhouse gas associated with agriculture?

- A. Oxygen                      B. Carbon dioxide                      C. Methane                      D. Nitrogen

10. How can increased atmospheric CO<sub>2</sub> levels initially affect crop growth?
- A. Stunt growth
  - B. Improve photosynthesis and increase yields
  - C. Decrease nutrient content
  - D. Cause immediate crop failure
11. What is "phenological shift" in plants due to climate change?
- A. Change in the root structure
  - B. Mutation of plant genes
  - C. Alteration in the timing of biological events
  - D. Loss of pigmentation
12. Which type of plant ecosystem is most vulnerable to climate change?
- A. Tropical rainforests
  - B. Coastal mangroves
  - C. Alpine and tundra ecosystems
  - D. Temperate grasslands
13. How does ocean acidification, caused by climate change, impact marine life?
- A. Improves fish reproduction
  - B. Strengthens coral reefs
  - C. Interferes with shell formation in species like mollusks
  - D. Makes oceans more oxygen-rich
14. Coral bleaching is primarily caused by:
- A. Increased salinity in oceans
  - B. Pollution from plastic
  - C. Warmer sea temperatures due to climate change
  - D. Overfishing
15. Which sector is the largest contributor to global greenhouse gas emissions?
- A. Agriculture
  - B. Transportation
  - C. Industry
  - D. Electricity and Heat Production

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2025 (FYUGP)  
NAGALAND UNIVERSITY  
2<sup>nd</sup> SEMESTER  
Paper Code: MD-2

(Paper: **Climate Change Vulnerability and Adaptation**)

**Full Marks: 37.5**

**Pass Marks: 40%**

**II. Short Answer** (Answer any five from the following):

**1 x 5 = 5**

1. What is IPCC?
2. Differentiate between weather and climate.
3. Define Permafrost.
4. What is global warming?
5. What is physical vulnerability in the context of climate change?
6. Which SDG focuses on climate change action?
7. Write a few lines on Kyoto Protocol.

**B. Descriptive** (Answer any five from the following)

**5 x 5 = 25**

1. Imagine that you are an environmentalist. How will you spread awareness of climate change?
2. Explain in detail the effects of Global Warming.
3. Explain the factors affecting economic vulnerability with examples.
4. Explain the key reports and main findings of IPCC.
5. Explain the impact of climate change on humans and support it with examples.
6. Explain the National Action Plan on Climate Change. Write on the principles underlying NAPCC.
7. According to you, what role does an individual play in coping with climate change?

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