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**3 SEM TDC GEGR (CBCS) GE 3 (A/B)**

**2 0 2 1**

( Held in January/February, 2022 )

**GEOGRAPHY**

( Generic Elective )

Paper : GE-3

Full Marks : 80

Pass Marks : 32

Time : 3 hours

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

Paper : GE-3 (A)

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

1. Write True or False/Choose the correct  
answer : 1×10=10

(a) Vulnerability can be broadly considered  
as a function of susceptibility and  
**resilience.**

(b) The \_\_\_\_\_ was launched in June 30,  
2008.

( IPCC / UNDP / NAPCC )

- (c) The people who are most vulnerable to climate change live \_\_\_\_.  
( below poverty line / in urban areas / in forests )
- (d) Cloudy nights are warmer as clouds \_\_\_\_ longwave energy back to the earth's surface.  
( reflect / radiate / scatter )
- (e) Global temperature rise is causing corals to die through the process of \_\_\_\_.  
( bleaching / leaching / solution )
- (f) The \_\_\_\_ is an important component of the climate system and includes ice sheets of Greenland, Antarctica, continental glaciers, snow, sea ice, permafrost, etc.  
( hydrosphere / biosphere / cryosphere )
- (g) Agricultural GHG emissions are mainly contributed by \_\_\_\_ oxides from soils, fertilizers, manures, etc.  
( nitrous / sulphur / carbon mono )

(h) Ocean acidification due to increasing concentration of \_\_\_\_\_ is an indicator of climate change.

( carbon dioxide / nitrous oxide /  
methane )

(i) Black carbon is a significant contributor to \_\_\_\_\_.

( global warming / pollution /  
acid rain )

(j) The \_\_\_\_\_ instructed the States of India to develop their climate action plans in relation to the NAPCC.

( SAPCC / MoEFCC / UNDP )

2. Write short notes on any *two* of the following : 5×2=10

(a) Impact of climate change on mental health and well-being

(b) Relationship between vulnerability and risk assessment

(c) Vulnerability in flood prone areas

( 4 )

3. What are the major greenhouse gases?  
Explain their role in changing the climate.

2+10=12

Or

Define climate change. How do human activities contribute to climate change?

2+10=12

4. Discuss the impact of climate change using suitable examples.

12

Or

Explain the impact of climate change upon health among different sections of the society.

12

5. Elaborate the role of IPCC in global climatic assessment.

12

Or

Explain the concepts of exposure, sensitivity and adaptive capacity in the context of vulnerability to climate change. Describe briefly the role of stakeholders in vulnerability assessment.

8+4=12

6. Discuss the impact of climate change upon flora and fauna with examples.

6+6=12

( 5 )

Or

Explain the role of local bodies in managing the impact of climate change. 12

7. Describe the adaption measures undertaken to reduce vulnerability due to climate change in the South Asian countries. 12

Or

Discuss physical and economic vulnerability to climate change with examples from South Asia. 12