

MSc Sem.-2 Examination

408

Climate Change

May-2025

Time : 2-30 Hours]

[Max. Marks : 70

Instructions: All Questions carry equal marks
Attempt all Questions

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|-------|--|----|
| Q I | Discuss the approaches of sensitivity, adaptability, and vulnerability to climate change. | 14 |
| OR | | |
| Q I | A. Discuss any case study on impact assessment. | 7 |
| | B. What problems can be encountered or faced while doing an impact assessment? | 7 |
| Q II | What is remote Sensing? Mention its Principle, Component and Types | 14 |
| OR | | |
| Q II | A. Explain Applications of GIS and GPS | 7 |
| | B. Write the application of remote Sensing in Vegetation and Climate Change detection with some examples | 7 |
| QIII | Explain Global Warming under different scenarios | 14 |
| OR | | |
| Q III | A. Explain the types climate models | 7 |
| | B. Write a note on significance and need of Climate Modelling | 7 |
| Q IV | Define future characterisation. Highlight the bio-physical and socio-economic components of a region. | 14 |
| OR | | |
| Q IV | A. Discuss the advantages and disadvantages of sensitivity analysis and analogues with suitable examples. | 7 |
| | B. Which are the different social science research methods? | 7 |
| Q V | Attempt any 7 out of 12 MCQs/Short question (One- or Two-line answer)/ Fill in the blanks/True or False etc. | 14 |
| 1 | Increase in exposure to climate change increases the _____. | |
| | A) resilience | |
| | B) adaptability | |
| | C) vulnerability | |
| | D) none of these | |
| 2 | Threshold can also be described as the _____ | |
| | A) lower limit | |
| | B) critical limit | |
| | C) average limit | |

- 3 D) none of these
If a crop is sensitive to temperature changes, major increase in the same will be _____
- A) damaging
B) beneficial
C) will not make a difference
D) none of these.
- 4 Storylines are consistent _____ narratives of how future may evolve.
- A) qualitative
B) quantitative
C) non comprehensive
D) non probable
- 5 Analogues can be temporal or _____
- A) historical
B) accurate
C) imaginary
D) spatial
- 6 When there a multiple explanations, scientists must choose the most simplest and economical explanation. This is called _____
- A) Parsimony
B) Falsifiability
C) Replicability
D) Precision
- 7 Full form of PRL
8 Full form ISRO
9 Full form of IMD
- 10 Which of the following types of radiation would be most effective in detecting vegetation through satellite based sensors?
- A. UV
B. Yellow
C. Infra-red
D. Violet
- 11 The satellite commonly used for Remote Sensing and meteorology is:
- A. Geostationary Satellite
B. Airborne satellite
C. Ground satellite
D. Sun Synchronous Satellite
- 12 The GIS-based map can be:
- A. Updated
B. Edited
C. Displayed
D. All of the above
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