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Name :

Reg. No :

SECOND SEMESTER INTEGRATED M.Sc. GEOLOGY DEGREE EXAMINATION, APRIL 2026

(FYIP)

CC25ENG2FA103(2) - ADVANCED ENGLISH LANGUAGE SKILLS FOR SCIENCES

(English - AEC)

(2025 Admission - Regular)

Time: 1.5 Hours

Maximum : 50 Marks

Credit: 3

Part A

Read the provided passage/poem and answer the following questions.

Each question carries 2 marks.

The Impact of Climate Change on Global Food Security.

Climate change is one of the most pressing issues of our time, with far-reaching consequences for global food security. Rising temperatures, changing precipitation patterns, and increased frequency of extreme weather events are all affecting agricultural productivity and food availability.

One of the most significant impacts of climate change on food security is the decline in crop yields. Warmer temperatures and changing precipitation patterns are altering the growing seasons and habitats of many crops, leading to reduced yields and lower quality produce. For example, a study by the International Maize and Wheat Improvement Center found that wheat yields in India are projected to decline by 6-8% by 2050 due to climate change.

Climate change is also affecting the distribution and prevalence of crop and animal pests and diseases. Warmer temperatures and changing precipitation patterns are altering the habitats and lifecycles of many pests and diseases, making them more prevalent and difficult to control. For example, the spread of the fall armyworm, a major pest of maize, has been linked to climate change.

The impacts of climate change on food security are not limited to crop yields and pest management. Climate change is also affecting the availability and quality of water resources, which are essential for agricultural production. Changes in precipitation patterns and increased evaporation due to warmer temperatures are altering the availability of water for irrigation, leading to reduced crop yields and lower quality produce.

To address the impacts of climate change on food security, it is essential to develop and implement climate-resilient agricultural practices. This can include the use of drought-tolerant crops, conservation agriculture, and integrated pest management. Additionally, efforts to reduce greenhouse gas emissions and mitigate the effects of climate change are critical to ensuring global food security.

1. What are significant impacts of climate change on food security? [Level:2] [CO4]
2. What is the projected decline in wheat yields in India by 2050 due to climate change? [Level:2] [CO4]
3. How is climate change affecting the distribution and prevalence of crop and animal pests and diseases? [Level:2] [CO4]
4. What is the impact of climate change on water resources for agricultural production? [Level:2] [CO4]
5. What is one climate-resilient agricultural practice that can help address the impacts of climate change on food security? [Level:2] [CO4]
6. Why is it essential to reduce greenhouse gas emissions to ensure global food security? [Level:2] [CO4]
7. How is climate change affecting agricultural productivity? [Level:2] [CO4]
8. What is the impact of warmer temperatures on crop yields? [Level:2] [CO4]
9. How can conservation agriculture help address the impacts of climate change on food security? [Level:2] [CO4]
10. What is the underlying theme of the passage? [Level:2] [CO4]

(Ceiling: 16 Marks)

Part B (Paragraph questions/Problem)

Answer *all* questions. Each question carries 6 marks.

11. How does Smith respond to the question about continuing in the vein of Love cats? [Level:1] [CO1]
12. Explain how does the narrator describe the effort taken by the aliens to preserve their legacy in the shoert story *The Star*. [Level:2] [CO1, CO2]
13. Explain various images used in the poem by Wisława Szymborska. [Level:2] [CO3]
14. Compare and contrast logic and rationale in the context of scientific thinking. How do they contribute to the formation of scientific temper? [Level:4] [CO1]
15. Discuss how the imagery of 'temporary palaces' conveys the transient nature of human achievements. [Level:2] [CO1, CO2]

(Ceiling: 24 Marks)

Part C (Essay questions)

Answer any ***one*** question. The question carries 10 marks.

16. Substantiate how the poet uses light to represent both the illuminating power of knowledge and the darkness of the unknown in the poem *Relativity* [Level:4] [CO2]
17. Summarize the main themes of *A Love Poem for Lonely Prime Numbers* and explain how the poem uses math as a metaphor for human relationships. [Level:2] [CO2]

(1 × 10 = 10 Marks)
