

24U2109

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Name :

Reg. No :

SECOND SEMESTER UG DEGREE EXAMINATION, APRIL 2025

(FYUGP)

CC24UENG2FA103(2) - ADVANCED ENGLISH LANGUAGE SKILLS FOR SCIENCES

(English - AEC)

(2024 Admission - Regular)

Time: 1.5 Hours

Maximum : 50 Marks

Credit: 3

Part A

Read the provided passage and answer the following questions.

Each question carries 2 marks.

Artificial Intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think and learn like humans. The term can also be applied to any machine that exhibits traits associated with a human mind such as learning and problem-solving. AI technology is divided into two main categories: narrow AI and general AI. Narrow AI is designed and trained for a particular task, while general AI is designed to perform any intellectual task that a human can.

AI systems are trained using large amounts of data and algorithms that give them the ability to learn how to perform tasks. Machine learning, a subset of AI, involves training machines to learn from data and make predictions or decisions without being explicitly programmed. AI has many applications, including virtual assistants, image recognition, natural language processing, and expert systems.

The benefits of AI are numerous. It can help automate repetitive tasks, provide insights and patterns in data, and make decisions faster and more accurately than humans. However, there are also concerns about the impact of AI on jobs, privacy, and security. As AI technology advances, it is likely to have a significant impact on many aspects of our lives. It is essential to ensure that AI systems are designed and used responsibly and that their benefits are shared by all.

1. Define Artificial Intelligence (AI). [Level:1] [CO4]
2. What are the two main categories of AI? [Level:2] [CO4]
3. How does narrow AI differ from general AI? [Level:2] [CO4]
4. What is machine learning? [Level:2] [CO4]
5. Name two common applications of AI. [Level:2] [CO4]
6. How do AI systems learn to perform tasks? [Level:2] [CO4]
7. Mention one benefit and one concern related to AI. [Level:2] [CO4]

8. How can AI help in decision-making? [Level:2] [CO4]
9. What is the role of data in AI training? [Level:2] [CO4]
10. Why is responsible AI development important? [Level:2] [CO4]

(Ceiling: 16 Marks)

Part B (Paragraph questions)

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

11. The documentary *Only An Axe Away* highlights the successful campaign to save the Silent Valley from destructive development. Examine the significance of the Silent Valley and explain why it was declared a National Park in 1984. [Level:4] [CO1, CO4]
12. Analyse the role of scientists in bringing about change in humankind, as explored in the speech *Wonders of Science*. [Level:4] [CO1, CO2]
13. Analyze how the poem's tone contributes to its overall message about pi in the poem *Pi* by Wisława Szymborska. [Level:4] [CO2]
14. Discuss how critical thinking and objectivity work together in scientific research. Provide examples where both are essential for valid conclusions. [Level:2] [CO1]
15. 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]

(Ceiling: 24 Marks)

Part C (Essay questions)

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

16. Analyse the role of memory and reflection in *The Fourth State of Matter*. How does the author's introspection contribute to the overall meaning of the essay? Discuss how the writing style helps convey these reflective elements? [Level:4] [CO2]
17. Write an essay on how 59 and 61 turn out to be a prime example. [Level:3] [CO2]

(1 × 10 = 10 Marks)
