

D 133650

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Name.....

Reg. No.....

**FIRST SEMESTER (CUFYUGP) DEGREE EXAMINATION
NOVEMBER 2025**

English

ENG IFA 101 (2)—ENGLISH LANGUAGE SKILLS FOR SCIENCES

(2024 Admission onwards)

Time : One Hour and a Half

Maximum : 50 Marks

Section A

- I. Read the provided paragraphs and answer the following questions. Each question carries 2 marks.
(Ceiling : 16 Marks)

Flying saucers, or UFOs (Unidentified Flying Objects), are well known to almost everyone. But seeing a strange light in the sky does not mean that we are being visited by beings from the planet Venus or a distant galaxy named Spectra. It might, for example, be an automobile headlight reflected off a high-altitude cloud, or a flight of luminescent insects, or an unconventional aircraft, or a conventional aircraft with unconventional lighting patterns, such as a high-intensity searchlight used for meteorological observations. There are also a number of cases-closer encounters with some highish index numeral-where one or two people claim to have been taken aboard an alien spaceship, prodded and probed with unconventional medical instruments, and released. But in these cases we have only the unsubstantiated testimony, no matter how heartfelt and seemingly sincere, of one or two people. To the best of my knowledge, there are no instances out of the hundreds of thousands of UFO reports filed since 1947-not a single one—in which many people independently and reliably report a close encounter with what is clearly an alien spacecraft. Not only is there an absence of good anecdotal evidence; there is no physical evidence either. Our laboratories are very sophisticated. A product of alien manufacture might readily be identified as such. Yet no one has ever turned up even a small fragment of an alien spacecraft that has passed any such physical test-much less e logbook of the starship captain. It is for these reasons that in 1977 NASA declined an invitation from the Executive Office of the President to undertake a serious investigation of UFO reports. When hoaxes and mere anecdotes are excluded, there seems to be nothing left to study.

- 1 What are some possible explanations for strange lights in the sky besides alien spacecraft ?
- 2 What common phenomena might be mistaken for UFOs, according to the passage ?

Turn over

- 3 What does the passage suggest about the reliability of individual testimonies regarding close encounters with UFOs ?
- 4 How many reliable reports of close encounters with alien spacecraft does the passage claim exists ?
- 5 What types of evidence does the passage say are lacking in UFO reports ?
- 6 Why did NASA decline an invitation to investigate UFO reports in 1977 ?
- 7 What does the passage imply about the effectiveness of modern laboratories in identifying alien artefacts ?
- 8 Why does the author emphasise the absence of physical evidence, and how does this impact the credibility of UFO sightings ?
- 9 What is the main argument of the passage regarding the credibility of UFO sightings and close encounters and briefly describe how the author supports this argument ?
- 10 There are a good number of sci-fi films on UFOs. What do you think of the popularity of such movies ?

Section B

II. Answer the following questions in *not* more than 100 words. All questions can be attended. Each question carries 6 marks. (Ceiling : 24 Marks)

- 11 Explain Stephen Hawking's view on the probability of life appearing on other planets and the evidence he uses to support this view.
- 12 In your opinion, what is the most significant challenge in implementing climate change mitigation strategies, and how can it be overcome ?
- 13 Describe the nature of the friendship between Rosalind Franklin and Anne Piper.
- 14 What contrast between the natural environment and human concerns is emphasised in the poem "The Peace of Wild Things" ?
- 15 Discuss the role of the caretakers in "The Red Room."

Section C

III. Answer any *one* question in 300 words :

- 16 Write an essay from the perspective of an ancient tree in the forests of your region. Discuss the changes you have witnessed over centuries, your relationship with other species in the ecosystem, and your thoughts on modern conservation efforts.
- 17 How would Fyokla and Danilka recall the stormy morning and Terenty's advice if they could come back to this day years later as adults ? Write an essay that examines their thoughts and the ways in which this event impacted their lives, incorporating memories from their early years with their adult viewpoints.

(1 × 10 = 10 marks)

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Section A

- I. Read the provided paragraphs and answer the following questions. Each question carries 2 marks.
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Artificial Intelligence (AI) tools have rapidly transformed industries by automating processes, enhancing decision-making, and offering powerful insights from vast amounts of data. These tools range from basic applications such as chatbots and recommendation engines to more sophisticated systems like deep learning algorithms and natural language processing models. In business, AI tools streamline operations, reduce human error, and help in personalizing customer experiences. For instance, AI-driven analytics platforms can predict market trends, consumer behavior, and even identify areas for cost optimization. Machine learning, a subset of AI, allows these tools to improve over time by learning from data patterns without explicit programming. This capability is especially useful in industries like finance, healthcare, and e-commerce, where vast datasets are continuously generated.

In healthcare, AI tools assist in diagnostic procedures, patient management, and even drug discovery. AI-driven diagnostic systems analyze medical images to detect diseases like cancer at early stages, offering quicker, more accurate results than traditional methods. These tools not only support healthcare professionals but also make healthcare more accessible, especially in remote areas where medical expertise may be limited. In finance, AI tools enhance fraud detection systems, predict stock prices, and optimize investment portfolios. With AI, banks can analyze large sets of transactions in real-time, identifying suspicious activities far faster than manual checks.

Natural language processing (NLP) tools, another major AI innovation, allow machines to understand, interpret, and generate human language. NLP applications include language translation services, sentiment analysis tools, and virtual assistants like Siri or Alexa. These systems can interact with users conversationally, making digital services more user-friendly and accessible. In customer service, AI-driven chatbots help companies manage a high volume

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of customer inquiries, often providing immediate responses and solutions. AI tools in marketing automate ad targeting and content creation, delivering personalized ads to users based on their browsing history and preferences.

Despite their many advantages, AI tools raise ethical and practical concerns. Issues such as data privacy, algorithmic bias, and the displacement of jobs due to automation are widely discussed. For example, AI algorithms can sometimes unintentionally perpetuate biases present in their training data, leading to unfair outcomes in hiring processes or credit scoring. To address these challenges, businesses and regulators are working on frameworks to ensure AI systems are transparent, ethical, and accountable. AI tools are evolving quickly, and their potential seems limitless, but it is essential to approach their development and deployment with careful consideration of their societal impact.

AI tools are revolutionizing sectors across the board, providing solutions that are faster, smarter, and more efficient. However, the integration of AI into society must be managed responsibly to avoid unintended consequences and ensure that its benefits are distributed equitably.

- 1 What are some basic applications of AI tools ?
- 2 How do AI tools improve decision-making in businesses ?
- 3 Name two industries where machine learning is particularly useful.
- 4 What is the role of AI-driven chatbots in customer service ?
- 5 What is one example of how AI tools help in fraud detection in finance ?
- 6 Name two advantages AI tools bring to the marketing industry.
- 7 What is one ethical concern associated with AI tools ?
- 8 Why is transparency important in the deployment of AI tools ?
- 9 Discuss how AI tools are transforming the healthcare and finance industries, providing examples from the text.
- 10 Analyze the ethical concerns associated with AI tools and suggest potential measures to address these issues.

Section B

- II. Answer the following questions in not more than 100 words. All questions can be attended. Each question carries 6 marks. (Ceiling : 24 Marks)
- 11 Describe the role of the fungi network in retaining the biodiverse ecosystem of ancient forests.
 - 12 What is the central conflict highlighted in Bhargava's essay "Science and Dogma" ?

- 13 The imagery in “The Peace of Wild Things” is vivid and evocative. Explain how it contributes to the poem’s theme and emotional impact.
- 14 How did C.V. Raman’s teaching strategies, as outlined in the article, reflect his conviction that research is important ?
- 15 Why is outlining your professional goals important in the ASOP ?

Section C

III. Answer any *one* question in 300 words.

- 16 Assess the impact of dogmatic beliefs on contemporary Indian society. How have these beliefs influenced social structures and policies ? Reflect on specific examples from your readings and personal observations.
- 17 Write a story set 100 years from now, exploring the consequences of current environmental and technological trends. How have these changes affected human life and the planet ?

(1 × 10 = 10 marks)