25U1103A (Pages: 3) Name : .....

Reg. No : .....

FIRST SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025

(FYUGP)

(Regular/Supplementary/Improvement)

CC24UENG1FA101(2) - ENGLISH LANGUAGE SKILLS FOR SCIENCES

(English - AEC)

(2024 Admission onwards)

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.

Science and Progress: Shaping the Future in the 21st Century.

In the 21st century, science has become the driving force behind most of the advancements and developments that define modern life. From healthcare and technology to environmental sustainability and space exploration, science plays an indispensable role in shaping our world. Its contributions are not just transforming our daily lives but are also addressing some of the most significant challenges faced by humanity.

One of the most visible areas where science impacts society is in medicine and healthcare. Over the last few decades, medical research has led to groundbreaking discoveries, improving the quality and longevity of human life. Advances in genetics, vaccines, and treatments for diseases like cancer and HIV/AIDS have saved millions of lives. The recent development of COVID-19 vaccines, for example, is a testament to the rapid pace at which science can respond to global health crises. Moreover, innovations like artificial intelligence (AI) and biotechnology are enabling personalized medicine, which tailors treatments to individual genetic profiles, ensuring better outcomes for patients.

Technology, driven largely by scientific research, is another area that has revolutionized the world. The internet, smartphones, and social media platforms have all emerged from scientific innovations. These technologies have reshaped communication, education, and entertainment, creating a more interconnected and digital world. The rise of automation and robotics is transforming industries and reshaping the workforce, creating new opportunities while also presenting challenges that society must address.

Science also plays a crucial role in addressing the pressing environmental issues of our time. Climate change, pollution, and the depletion of natural resources are global challenges that require scientific solutions. Renewable energy sources, such as solar and wind power, are increasingly being harnessed as alternatives to fossil fuels, reducing greenhouse gas emissions and mitigating climate change. Scientists are also working on developing more sustainable agricultural practices to ensure food security for a growing

global population, as well as exploring new technologies to clean up polluted ecosystems.

Finally, space exploration, once considered a distant dream, is now a reality thanks to scientific progress. Missions to Mars, the exploration of distant planets, and the development of space tourism are all expanding the boundaries of human knowledge and capabilities. The insights gained from space exploration also have practical applications on Earth, such as satellite technology for weather forecasting, communication, and environmental monitoring.

In conclusion, science in the 21st century is not just about advancing knowledge; it is about improving lives, solving critical problems, and creating a sustainable future. As we face new challenges, the importance of science will continue to grow, guiding humanity toward progress and innovation.

1. What is the driving force behind most advancements in modern life? [Level:2] [CO4]
2. How has medical research impacted human life and longevity? [Level:1] [CO1]
3. What role do innovations like AI and biotechnology play in medicine? [Level:2] [CO1]
4. How has scientific research influenced the development of technology? [Level:2] [CO1]
5. What global challenges require scientific solutions, according to the passage? [Level:1] [CO4]
6. What global challenges require scientific solutions, according to the passage? [Level:1] [CO4]
7. What practical applications on Earth have resulted from space exploration? [Level:2] [CO1]
8. How has science improved communication, education, and entertainment? [Level:2] [CO1]
9. What is the significance of renewable energy sources in mitigating climate change? [Level:2] [CO4]
10. Why is science crucial for creating a sustainable future, according to the passage? [Level:1] [CO1]

(Ceiling: 16 Marks)

Part B (Paragraph questions/Problem)

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

11. Discuss the implications on the statement “Our only chance of long- term survival is not to remain inward looking on planet Earth but to spread out into space” in the context of current global challenges [Level:4] [CO5]
12. Explain Sagan’s perspective on the potential consequences of unchecked climate change. [Level:2] [CO5]
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. [Level:4] [CO2]
14. Reflect on how The Red Room’s themes relate to contemporary issues of fear, anxiety or superstition. [Level:3] [CO4]

15. Describe the role of the fungi network in retaining the biodiverse ecosystem of ancient forests. [Level:4] [CO5]

(Ceiling: 24 Marks)

Part C (Essay questions)

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

16. Discuss how dogmatic beliefs about the circumstances of birth influences societal attitudes towards communalism, casteism, and linguistic chauvinism. [Level:4] [CO5]

17. Imagine you are applying to a graduate degree. Create a personal statement that not only summarises your academic and professional accomplishments, but also includes your influences and how that affected your research interest and approach to the chosen field. [Level:6] [CO1, CO3]

(1 × 10 = 10 Marks)

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