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VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN
[AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]
Elayampalayam – 637 205, Tiruchengode, Namakkal Dt., Tamil Nadu.

Question Paper Code: 100005

B.E. / B.Tech. DEGREE END-SEMESTER EXAMINATIONS – FEB. 2025

First Semester

Computer Science and Engineering

U23EN101 – ENGLISH FOR COMMUNICATION

(Common to All)

(Regulation 2023)

Time : Three Hours

Maximum : 100 Marks

Answer ALL the questions

Knowledge Levels (KL)	K1 – Remembering	K3 – Applying	K5 - Evaluating
	K2 – Understanding	K4 – Analyzing	K6 - Creating

PART – A

(10 x 2 = 20 Marks)

Q.No.	Questions	Marks	KL	CO
1.	Convert the following sentences from active to passive voices: i. The engineering team designed the new software application. ii. The committee will announce the results tomorrow.	2	K1	CO1
2.	Identify the sentence pattern in the following sentences: i. The students completed the project on time. ii. The design of the machine was complex.	2	K1	CO1
3.	What is collocation? Provide two examples of commonly used collocations in a business context.	2	K3	CO2
4.	Choose the correct form of the verb in the following sentences: i. The performance of the machines _____ (is/are) being evaluated today. ii. The engineers _____ (has/have) completed the project on time.	2	K3	CO2
5.	Identify two cohesive devices used in the passage. The team designed a new robotic arm. This innovative device can perform tasks with high precision. Furthermore, it significantly reduces the time required for assembly.	2	K4	CO3
6.	Rewrite the following sentences in impersonal passive voices.	2	K3	CO3

- i. The technicians will conduct the maintenance on the machinery next week.
- ii. The manager reviewed the quarterly performance reports yesterday.
7. **Read the following sentences and identify the cause and effect link words:** 2 K1 CO4
- i. The bridge collapsed because the materials used did not meet the specified standards.
- ii. The client terminated the contract because the deliverables did not meet the agreed-upon quality.
8. **Fill in the blanks with suitable modal verbs:** 2 K2 CO4
- i. To meet the deadline, the team _____ work overtime this week. (must/can)
- ii. Employees _____ adhere to company policies at all times. (should/might)
9. **Choose the correct synonyms for the words underlined in the following sentences:** 2 K2 CO5
- i. The team will analyze the data collected during the experiment.
- a) Examine
b) Ignore
c) Gather
d) Present
- ii. The engineers will implement the new design next quarter.
- a) Abandon
b) Execute
c) Discuss
d) Modify
10. **Rewrite the following sentence correcting the errors:** 2 K1 CO5
- i. The manager submitted the report before the team finalized their inputs.
- ii. The employee resigned after he finds a better opportunity.

PART – B

(5 x 16 = 80 Marks)

Q.No.	Questions	Marks	KL	CO
11.	<p>Read the passage and answer the questions given below:</p> <p>The 21st century has been marked by a surge in technological and scientific advancements, particularly in the fields of artificial intelligence, renewable energy, and biotechnology. Artificial intelligence (AI) has emerged as a transformative force, revolutionizing industries such as healthcare, finance, and transportation. AI-powered tools are now being employed to analyze complex medical data, assist in accurate diagnoses, and recommend treatment plans. Similarly, AI-</p>	16	K2	CO1

driven automation is improving efficiency in manufacturing and logistics.

Renewable energy sources, including solar and wind power, have seen significant growth as nations strive to combat climate change. Innovations in energy storage, such as advanced battery technologies, are making renewable energy more reliable and accessible. These developments are enabling a shift from traditional fossil fuels to cleaner, sustainable energy solutions.

In the field of biotechnology, ground-breaking research has led to advancements in gene editing, such as CRISPR technology. These developments are paving the way for solutions to genetic disorders and agricultural improvements. Additionally, biotechnology is playing a vital role in vaccine development, particularly evident in the rapid production of vaccines during global pandemics.

The integration of these advancements has not only enhanced productivity but also improved the quality of life. However, they also present challenges, including ethical concerns, economic disparities, and the need for robust regulatory frameworks.

A. Choose the best answer:

- (i) The advancements in artificial intelligence have significantly impacted:
 - 1. Traditional agriculture
 - 2. Healthcare and transportation
 - 3. Fossil fuel industries
 - 4. Climate change policies
- (ii) Renewable energy innovations have been primarily focused on:
 - 1. Increasing the use of fossil fuels
 - 2. Developing advanced storage solutions
 - 3. Promoting traditional power sources
 - 4. Reducing AI dependence
- (iii) The introduction of CRISPR technology is aimed at:
 - 1. Enhancing manufacturing processes
 - 2. Addressing genetic disorders
 - 3. Simplifying vaccine production
 - 4. Revolutionizing logistics
- (iv) The challenges accompanying technological advancements include:
 - 1. Increased manufacturing efficiency
 - 2. Economic disparities and ethical concerns
 - 3. Improved regulatory frameworks
 - 4. Advancements in medical diagnostics
- (v) Biotechnology has significantly contributed to:
 - 1. Enhancing renewable energy systems
 - 2. Vaccine development during pandemics
 - 3. Transforming traditional power grids

4. Revolutionizing artificial intelligence

B. State whether the following statements are True or False:

1. AI tools are used for analyzing simple medical data.
2. Renewable energy sources like wind and solar power are replacing fossil fuels.
3. CRISPR technology is a part of artificial intelligence.
4. Vaccine development has benefited significantly from biotechnology.
5. Technological advancements pose no ethical or regulatory challenges.
6. Economic disparities are a concern in the context of rapid technological growth.

Choose the most appropriate synonym which conveys the meaning of the word from the context:

(i) *Transformative*

1. Revolutionary
2. Conventional
3. Predictable
4. Incremental

(ii) *Accessible*

1. Unreachable
2. Available
3. Exclusive
4. Optional

(iii) *Ground-breaking*

1. Traditional
2. Innovative
3. Redundant
4. Obsolete

(iv) *Paving*

1. Hindering
2. Facilitating
3. Ignoring
4. Restricting

(v) *Integration*

1. Combination
2. Separation
3. Division
4. Isolation

12. a) **Read the following passage carefully and make notes on it using appropriate headings and subheadings. Also, add a suitable title to your notes. Finally, summarize the passage in about 80 words.**

16 K1 CO2

With the rapid advancement of technology, the field of engineering is continuously evolving. One of the most significant technological revolutions in recent times is the development of

Artificial Intelligence (AI). AI has had a profound impact on engineering, from automating routine tasks to enabling the creation of smarter systems that can adapt and learn from real-time data. AI is being integrated into several areas of engineering, including civil, mechanical, electrical, and computer engineering.

In civil engineering, AI is used for predictive maintenance of infrastructure, where algorithms analyze data from sensors to detect potential issues before they become critical. In mechanical engineering, AI-powered robots are enhancing manufacturing processes by increasing precision and efficiency. Electrical engineers are using AI to optimize energy systems, improving sustainability and reducing power consumption. In computer engineering, AI is at the forefront of developing intelligent software systems that can solve complex problems, process vast amounts of data, and improve cybersecurity.

However, AI's integration in engineering also raises ethical concerns. Issues such as data privacy, algorithmic bias, and the potential displacement of human jobs are critical challenges that must be addressed. Engineers must be aware of the ethical implications of using AI and ensure that their innovations are both technically sound and socially responsible. As AI continues to shape the future of engineering, it is essential for engineers to stay updated with the latest trends and innovations in the field. Continuous learning and adapting to new technologies will help engineers remain competitive in a rapidly changing industry.

(OR)

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|--|--|----|----|-----|
| b) | Build a dialogue between a Manager and an Employee regarding the delay in project completion. Start with the first exchange which is given below: (Minimum 8 pairs have to be written)
Manager: Why is the project not completed yet?
Employee: There were some unexpected challenges, sir. | 16 | K1 | CO2 |
| 13. a) You are an engineering intern at a renewable energy company. Your team has just completed a successful project on solar panel installation. Write a formal email to your supervisor and the team about the project outcomes.
Your email should include the following elements: | | | | |
| | <ul style="list-style-type: none"> • A clear subject line • A brief introduction stating the purpose of the email • A summary of the project outcomes, including key achievements and any challenges faced • Next steps or recommendations for future projects | | | |
| (OR) | | | | |
| b) | Write an email to a customer care representative regarding a delayed product delivery. Provide your order details and ask for an update on the status and estimated delivery time. | 16 | K2 | CO3 |

14. a) You are Anita Verma, a final-year student of BBD University. Write a letter to the Placement Officer of your college, requesting them to organize a workshop on career guidance and soft skills to prepare students for upcoming job interviews. 16 K3 CO4
- (OR)
- b) You are Meena Kumar, an employee at EP Corporation. You are unhappy with the lack of hygiene and sanitation in the office premises. Write a letter to the HR Manager of the company, requesting immediate action to improve cleanliness at the workplace. 16 K3 CO4
15. a) You are the organiser who is to deliver a welcome address at the annual engineering conference and also a vote of thanks at the end of the event. Write a welcome address (approximately 150 words) to open the conference and Write a vote of thanks (approximately 100-150 words) to conclude the event. 16 K4 CO5
- (OR)
- b) The pie chart given below displays the allocation of the annual budget (in percentages) for various government departments (Education, Healthcare, Defense, Infrastructure, and Agriculture) for the year 2023. Analyze the chart and write a summary of 150 words. 16 K4 CO5

