



VIT

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

REG.NO.:

SCHOOL OF SOCIAL SCIENCES AND LANGUAGES
CONTINUOUS ASSESSMENT TEST – II
WINTER SEMESTER - 2025-2026

SLOT: G1+TG1

Programme Name & Branch : B.Tech. & Common for all branches
Course Code and Course Name : BAENG101 & Technical English Communication
Faculty Name(s) : Dr.Vijayakumar M, Dr.Anil Premraj, Dr.Bhuvaneswari V, Dr.Md.Sahul Hameed MA, Dr.Saravanan V, Dr.Sunitha V, Dr.Vishnu Priya NS, Dr.Gandhimathi SNS, Dr.Christopher Rajasekaran, Dr.Saraswathy S, Dr.Sujatha Menon
Class Number(s) : 492, 472, 474, 476, 482, 486, 494, 496, 498, 500, 505
Date of Examination : 23/03/2026
Exam Duration : 90 minutes

Maximum Marks: 50

General Instruction(s):

- Answer All Questions
- Students are permitted to bring any number of textbooks, printouts of e-books (complete / chapters) and handwritten notebooks (class notes).
- M - Max mark; CO - Course Outcome; BL - Blooms Taxonomy Level (1 - Remember, 2 - Understand, 3 - Apply, 4 - Analyse, 5 - Evaluate, 6 - Create)
- Course Outcomes:

CO1- Enhance writing skills for better publication

CO3 - Apply grammatical rules in academic and real-life contexts

CO6 - Interpret scenarios that highlight concepts related to interpersonal communication

Q. No	Question	M	CO	BL
1.	a. Identify the tense shifts and rewrite the following paragraph in a more precise and meaningful way, and underline the corrections in your answer sheet: A biotechnology research team recently <u>develops</u> a new method to detect plant diseases early. The study focuses on identifying infections before visible symptoms appear in crops. Prior to commencing the experiment, the scientists collected samples from multiple farms. They analyse the samples in the laboratory since December 2025. The laboratory uses advanced genomic sequencing tools for accurate diagnosis. If the results are accurate, the technology helped farmers identify diseases at an early stage. The researchers believe that this method improves crop productivity in the future.	5	3	2
	b. Rewrite the following passage in the passive voice: The software engineers are developing an artificial intelligence model to detect cyber threats. They have already trained the system with thousands of data samples. The team did not reveal the algorithm to the public. Will the company release the new cybersecurity tool this year? The developers might improve the system further after user feedback.	5		



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2.	You are applying for an MS in Data Science at the University of Oxford, UK. The university expects applicants to explain their academic preparation, professional aspirations, and interest in the programme. <u>Write a Statement of Purpose</u> explaining your educational background and relevant skills, the reason for choosing the Data Science program at Oxford, your future career plans, and how your experiences make you a strong candidate. (200 words)	10	1	3
3.	Prepare an abstract for the given article in about 200 words: Renewable Energy Adoption in Urban India: Opportunities and Challenges Introduction Concerns about climate change and rising global energy demand have been intensified, and renewable sources such as solar and wind power have been given significant attention worldwide. In India, one of the fastest-growing economies, energy consumption has been continuously increased, particularly in urban areas where industrial activities, transportation, and residential use have been expanded rapidly. Traditionally, much of India's energy has been generated from fossil fuels such as coal, oil, and natural gas. However, greenhouse gas emissions, air pollution, and environmental degradation have been caused by reliance on these sources. Consequently, renewable energy solutions are being explored in urban regions to reduce dependence on fossil fuels and lower carbon emissions. Rooftop solar panels, small-scale wind turbines, and energy-efficient infrastructure are being adopted as viable options for sustainable urban energy systems. In this study, the adoption of renewable technologies in Indian cities is examined, and their environmental and economic impacts are evaluated. Literature Review The crucial role of renewable energy in reducing greenhouse gas emissions and promoting sustainable development has been highlighted by previous research. Urban areas have been identified as favourable environments for renewable energy systems because of high demand and infrastructure capacity. Rooftop solar installations on residential and commercial buildings have been shown to generate substantial electricity and reduce pressure on conventional grids. Urban wind turbines and hybrid systems are being explored as supplementary sources in densely populated regions. Energy-efficient infrastructure such as smart grids, green buildings, and advanced storage systems has been suggested to enhance renewable integration. These technologies reduce consumption and allow power supply to be managed more efficiently. Despite these developments, barriers have been identified. High installation costs have been regarded as a major challenge, while limited public awareness has been noted as another obstacle. Inconsistent policies, regulatory uncertainties, and infrastructural limitations have also been reported to discourage adoption. Strong policy support, financial incentives, and technological innovation	10	1	3



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	have therefore been argued as essential for accelerating renewable energy adoption in urban India. Methodology A survey-based design was employed to examine renewable energy adoption in a metropolitan city in India. Data were collected from 100 households and 20 commercial establishments representing diverse income groups and business sectors. Structured questionnaires were used to gather information on consumption patterns, awareness of renewable technologies, and willingness to adopt sustainable solutions. Perceptions of cost, government incentives, and long-term benefits were also recorded. The research was conducted over four months in 2025, allowing sufficient time for responses and trend analysis. Results Significant influence by government support was indicated in the findings. Households with subsidies or financial assistance were more likely to install rooftop solar panels. Although high initial investment was reported, long-term savings in electricity bills were considered beneficial. Commercial establishments expressed interest in renewable solutions because operational expenses could be reduced and sustainability practices enhanced. Respondents who had adopted renewable technologies reported increased environmental awareness and responsibility toward sustainable living. Conclusion It is concluded that renewable energy adoption in urban India holds strong potential for sustainable development and reduced environmental impact. Economic and ecological benefits are being recognized gradually by households and businesses. However, wider implementation requires greater public awareness, consistent policies, financial incentives, and improved infrastructure. Strengthening these factors can accelerate the transition into cleaner and more sustainable energy systems in Indian cities.			
4.	Read the following case and answer the question: In a civil engineering firm, a team of young engineers was assigned to design a sustainable urban drainage system for a rapidly developing city. The team consisted of members with different technical specializations, including structural design, environmental analysis, and data modelling. However, during the initial stages of the project, the team struggled with coordination. Some members focused only on their individual tasks, while others were unsure about their responsibilities. As a result, progress was slow and several important deadlines were missed. Recognizing the problem, the team leader, Michael, decided to implement new strategies to strengthen teamwork. He organized weekly planning meetings where members shared updates and discussed challenges openly. He also assigned clear roles to each member based on their expertise and	10	6	3



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	encouraged collaborative problem-solving. To build trust within the group, Michael appreciated individual contributions and ensured that all team members participated in decision-making. Gradually, communication improved, and the team began to work more efficiently. With stronger collaboration and better coordination, the engineers successfully completed the project and received positive feedback from the client. Question: How did the leadership strategies adopted by Michael contribute to effective team building and improved project performance? Explain with reference to the case study.			
5.	Read the following case and answer the question: In a technology company, a software development team was working on a new mobile application for an important client. As the deadline approached, the client requested several additional features that were not included in the original agreement. The development team was concerned that implementing these changes would require more time and resources, potentially delaying the project. Meanwhile, the client insisted that the new features were essential for the product's success in the market. To address the issue, the project manager arranged a negotiation meeting between the development team and the client representatives. During the discussion, both sides presented their concerns and expectations. The project manager encouraged open communication and focused on finding a mutually beneficial solution. After careful negotiation, the team agreed to implement the most critical additional features immediately while scheduling the remaining features for a later update. The client accepted this proposal as it allowed the product to be launched on time while ensuring future improvements. The negotiation process helped both parties understand each other's priorities and reach a practical agreement. As a result, the project was delivered successfully, and the professional relationship between the company and the client was strengthened. Question: How did effective negotiation strategies help resolve the conflict between the development team and the client? Explain with reference to the case study.	10	6	3