



### Final Assessment Test – May 2024

Course: **BENG101L - Technical English Communication**

Class NBR(s): **2040 / 2042 / 2048 / 2054/ 2061 / 2069 /  
2073 / 2077**

Slot: **B1**

Time: **Three Hours**

Max. Marks: **100**

- **KEEPING MOBILE PHONE/ELECTRONIC DEVICES EVEN IN 'OFF' POSITION IS TREATED AS EXAM MALPRACTICE**
- **DON'T WRITE ANYTHING ON THE QUESTION PAPER**

**Answer any TEN Questions  
(10 X 10 = 100 Marks)**

1. Explain the process of communication in detail. What are the key elements involved, and how do they work together to ensure effective communication?
2. Discuss five major barriers to communication, providing appropriate examples.
3. Spot the errors in the following sentence and write the corrected version:
  - a. She teach English at a local school.
  - b. The mailman deliver the letters every morning.
  - c. There are a lot of books on the shelf.
  - d. We went to the beach yesterday and swim in the ocean.
  - e. My favorite color is a blue.
  - f. If I were you, I would took the bus.
  - g. Having finished dinner, we watch a movie.
  - h. Neither Jessica nor Michael don't want to go.
  - i. Between you and I, this is a secret.
  - j. Everyday I wake up early for work.
4. With a focus on cybercrime investigations, create a compelling resume for the Junior Cybercrime Analyst position at the Bureau of Police Research and Development in New Delhi. Highlight your relevant skills and experience in digital forensics and cyber threat analysis.
5. Picture yourself to be the Co-ordinator of the Fine Arts Club at VIT. Write a minutes of a meeting held to discuss the club's achievements during the last semester and its plans for the upcoming semester.
6. Read the following and draw a letter of complaint:  
 You recently purchased a new refrigerator from "Appliance Depot" Unfortunately, upon delivery, you discovered a large dent in the side of the refrigerator. You contacted Appliance Depot's customer service department and were told they would send a technician to assess the damage. The technician arrived, confirmed the dent, and said a replacement door would be ordered. Weeks have passed, and you haven't heard anything further. You still have a brand-new refrigerator with a damaged door.

7. As a fresh graduate in engineering, you have decided to establish a manufacturing unit in your home town. For this purpose, you have decided to avail yourself of the liberalized loan facility under the self-employment scheme. Therefore, you wish to submit an unsolicited technical proposal for the manufacture of an item of your choice seeking loan from the State Industrial Development Corporation (SIDC), Chennai.
8. Summarize the following article in your own words, in about 250 words.

#### **Understanding Juice Jacking: A Cybersecurity Threat**

Whether you're shuttling between home and work, navigating different cities, or embarking on a leisurely trip, your mobile phone is a constant companion. However, this apparently routine activity is not devoid of risks, especially when relying on public USB charging points.

The Reserve Bank of India (RBI) recently issued a warning about the risks of "juice jacking," a cyber-attack targeting mobile users charging their devices at public USB ports. This advisory highlights the increasing threat posed by cyber criminals in public spaces like airports, hotels and shopping centers, where unsuspecting users may connect their devices for a quick charge, unknowingly exposing themselves to potential data theft or malware infection.

Cybersecurity experts caution that malicious actors may discreetly introduce malware into these public charging ports. Upon connecting your device, this malware can be used to take control, pilfer personal information and extract passwords. Subsequently, malicious entities may exploit this acquired data to infiltrate online accounts or engage in unauthorised transactions.

Cyber criminals are exploiting vulnerabilities in various ways, breaching internal security and often, citizens remain unaware of the threats looming over them. Juice Jacking is one emerging method gaining prominence in the series of cybercrimes.

Juice jacking is a form of cyber-attack where hackers manipulate public USB charging ports, either infecting them with malware or making hardware changes to steal data from connected devices. Incidents of juice jacking have been reported in public places like airports, hotels and shopping centers, making it a growing concern for individuals. This cyber threat is likened to the ATM card skimming exploits of the past, as both involve users depending on the safety of the compromised hardware.

Juice jacking is made possible due to the inherent design of Universal Serial Bus (USB) technology. A single port serves a multitude of functions, allowing users to both charge or power a device and transfer data to and from it. If you recall the days when each peripheral required its own unique cord and port, you'll appreciate the increased convenience brought about by this unified approach. However, this convenience introduced a new vulnerability: unintended data exchange during power charging. Remember in the early 2000s, mobile phones automatically enabled both functions upon connection.

Phone manufacturers have since addressed this concern by incorporating a prompt that seeks user permission for data exchange. Both iOS and Android have

updated their devices to warn users during charging, providing an option to trust or distrust the charging port, power bank, or charging process, further enhancing user security. This is exemplified by the "trust this device" message displayed when connecting a phone to a computer. Notably, if the phone is plugged into a power source alone, this message should not appear. Opting not to trust the device prevents data exchange while allowing the phone to charge. This iterative process aligns with the standard procedure in technological advancements: identifying vulnerabilities prompts manufacturers or developers to devise effective solutions.

9. Draft a Statement of Purpose (SoP) for applying to the Fellowship in Cybersecurity Management program at the International Institute of Information Technology, Bangalore.
10. Discuss the role of efficiency in leadership skills, considering the following quote: "Leadership is the capacity to translate vision into reality." by John C. Maxwell (write your perspectives on this in about 250 words)
11. **Read the following passage and answer the questions given below:**

The majestic peaks of the Alps have captivated travellers for centuries. However, these mountains are facing a significant threat due to climate change. Since the mid-20th century, average temperatures in the Alps have risen twice the global rate. This warming trend has led to a rapid retreat of glaciers, impacting water resources, ecosystems, and even tourism.

Here's a closer look at the situation:

**Problem:** Rising temperatures are causing accelerated melting of Alpine glaciers.

**Impact:**

- **Reduced water availability:** Glaciers act as natural reservoirs, storing winter snowfall and releasing it gradually throughout the year. Shrinking glaciers threaten water supplies for drinking, irrigation, and hydropower generation.
- **Disrupted ecosystems:** Glacial meltwater feeds alpine lakes and rivers, supporting diverse ecosystems. Declining water levels can harm these ecosystems.
- **Increased risk of natural disasters:** Melting glaciers contribute to glacial lake outburst floods, which can cause significant damage to infrastructure and communities downstream.
- **Threat to tourism:** The beauty of the Alps is a major draw for tourists. Receding glaciers could diminish the scenic value of the region, impacting tourism revenue.

**Questions:**

- a. What is the main challenge facing the Alps?
- b. How does climate change contribute to the challenge?
- c. Identify two potential consequences of receding glaciers.
- d. Imagine you are a local resident in an Alpine community. How might climate change and glacier melt affect your life?
- e. What are some potential solutions to address the challenge of receding glaciers?

12. Choose the research term from the box that best describes each of the following statements.

*Bias, Research Statement; Conclusion; Introduction; Literature Review; Research Question; Credibility; Source; Citation; Methodology;*

- a) A brief overview of the topic and its significance -
- b) A sentence that summarizes the main argument of the research paper -
- c) A critical analysis of existing research on the topic -
- d) A specific question that guides the research paper -
- e) The methods used to collect and analyse data -
- f) The believability of sources and information -
- g) Information used to support your research -
- h) A prejudice that can influence information -
- i) A way to acknowledge the source of borrowed information -
- j) A summary of the research findings and their significance -

⇔⇔⇔ H/E/TX ⇔⇔⇔

4/ Communication.

2/ Team work

3/ Leadership

4/ Conflict Management - Case Study

5/ Literature Review.