

KATHMANDU UNIVERSITY  
End Semester Examination  
September 2024

Level : B.E./B.Sc.

Year : I

Time : 2 hrs. 30 mins.

Course : ENGT 105

Semester : II

F. M. : 40

13 SEP 2024

SECTION "B"

[8Q. × 5 = 40 marks]

Attempt *ANY EIGHT* questions.

1. Develop a brief Concept Paper on one of the following subjects. Make sure to specify a research problem/question.
  - a. **Robotics and Artificial Intelligence in Disaster Response:** Discuss how robotics and AI can be used to enhance disaster response efforts, including search and rescue operations, hazard detection, and recovery planning.
  - b. **Advancements in Renewable Energy Systems:** Analyze the latest innovations in renewable energy technologies, such as solar panels, wind turbines, and energy storage solutions, and their potential to meet global energy demands.
2. Develop the **Introduction** section of a formal proposal based on ONE of the following titles:
  - a. **Creating a Real-Time Air Quality Monitoring System:** Suggest a project to design a network of low-cost, real-time air quality sensors that can provide data on pollution levels, with applications in urban planning and public health.
  - b. **Development of an Energy-Efficient Electric Vehicle Charging Station at KU:** Outline an innovative electric vehicle charging station that maximizes energy efficiency, incorporates renewable energy sources, and reduces charging times.
3. Prepare a power point presentation on the topic of "**Long Report**" for the presentation to first semester students. Make at least seven slides having at least three points in each slide.
4. You are working as a part of a collaborative project in this semester. Compose a **suitable message** to your group members discussing the distribution of tasks and setting deadlines. You need to ensure effective coordination and accountability among the team members.
5. You are an experienced (old) actor in Nepal. Write a formal letter to Svetlovidov, the actor from "Swan Song," describing the current state of your career and offering him words of consolation and support regarding his own situation.
6. Narration, as a rhetorical strategy, has been employed in various texts studied this semester. Analyze how this strategy is utilized in the texts "The Making of a Scientist," "The Myth of Sisyphus," and "The Allegory of the Cave." Discuss the specific ways in which narration contributes to the development of each text's themes and arguments.
7. Prepare a **topic outline** of all eight essential and five optional components of a formal letter and what is written in each component. [Note: For instance, Body section of a letter generally contains introduction, discussion and conclusion]
8. What implications does Sagan suggest for broader societal issues if skepticism is not cultivated? How does skepticism contribute to addressing or mitigating societal challenges according to the text?

P.T.O.

9. Analyze the theme of individuality and the consequences of decision-making in Robert Frost's "The Road Not Taken." How does the poem use the metaphor of the diverging roads to explore the narrator's sense of self and the significance of choices in shaping one's identity?

KATHMANDU UNIVERSITY  
End Semester Examination  
September 2024

Marks Scored:

Level : B.E./B.Sc.

Course : ENGT 105

Year : I

Semester : II

Exam Roll No. :

Time: 30 mins.

F. M. : 10

Registration No.:

Date : 13 SEP 2024

SECTION "A"

[20Q. × 0.5 = 10 marks]

*Circle the most appropriate answer from each set of choice.*

1. The prewriting stage in the Writing Process is very important because \_\_\_\_\_
  - a. It helps organize ideas and plan the structure of the writing
  - b. It allows the writer to edit their work for errors
  - c. It is when the writer submits their final draft
  - d. It focuses on creating a bibliography
  
2. Which of the following is an example of technical communication?
  - a. an descriptive essay
  - b. a novel
  - c. a user manual for a software application
  - d. a poem
  
3. "Accuracy" is a very important objective in technical communication because \_\_\_\_\_
  - a. it ensures compliance with legal and safety standards.
  - b. it allows for creativity and freedom of expression.
  - c. it makes the text more entertaining.
  - d. it helps to add ambiguity to the content.
  
4. Which of the following best describes a lay audience related issue?
  - a. To use specialized terminology without explanation.
  - b. To assume the audience has prior technical knowledge.
  - c. To explain concepts in simple, everyday language.
  - d. To focus only on theoretical concepts.
  
5. The primary benefit of using instant messaging for routine communication is it \_\_\_\_\_
  - a. provides a permanent record of the conversation.
  - b. allows for real-time communication and quick responses.
  - c. is highly formal and suitable for official documents.
  - d. is suitable for communicating with external clients.
  
6. An email can be insufficient, necessitating a letter instead when you are \_\_\_\_\_
  - a. sending a quick reminder to a colleague.
  - b. delivering a legal notice or official document.
  - c. sharing casual updates about a project.
  - d. scheduling a casual meeting.
  
7. What should be included in the objectives section of a proposal?
  - a. Detailed budget breakdown.
  - b. A summary of the project's final outcome.
  - c. Personal credentials of the team members.
  - d. Specific, measurable goals the project aims to achieve.

8. Which one of the following is NOT typically included in "the appendices" section of a technical report?
- raw data and detailed calculations
  - glossary of terms
  - background information on the project
  - list of references and sources
9. It is important to include a brief methodology section in a concept paper to \_\_\_\_\_
- provide a detailed breakdown of the budget.
  - offer a summary of existing literature on the topic.
  - include personal opinions and experiences.
  - explain how the proposed idea will be implemented or researched.
10. Which one of the following statements best illustrates "backing" in the Toulmin Model of Argumentation?
- "Research from health organizations supports the benefits of a smoking ban."
  - "Public places should be free from smoking for health reasons."
  - "Smoking causes health issues such as lung cancer and heart disease."
  - "Many people are affected by secondhand smoke in public areas."
11. The primary benefit of rehearsing an oral presentation multiple times is to \_\_\_\_\_
- memorize the exact wording of each slide.
  - increase the length of the presentation.
  - add more complex data to the presentation.
  - ensure a smooth delivery and become familiar with the content.
12. The main purpose of using headings and subheadings in the technical document design is to \_\_\_\_\_
- fill space on the page.
  - create a hierarchical structure and improve document readability.
  - include more technical jargon.
  - make the document look more formal.
13. T. H. Huxley describes the process of forming a hypothesis in everyday life is as \_\_\_\_\_  
(We Are All Scientist)
- a random guess without reasoning
  - a carefully tested and verified scientific theory
  - a rapid, instinctive conclusion based on observations
  - an unscientific guess that lacks evidence
14. The primary reason the speaker in the poem gives for choosing one road over the other is the road \_\_\_\_\_  
(The Road Not Taken)
- appeared less worn and more appealing.
  - was smoother and easier to travel.
  - seemed to offer a quicker route to the destination.
  - was more familiar and had been previously traveled.

15. How does Ramachandran describe the relationship between science and poetry?  
(The Making of Scientist)
- Both are entirely unrelated fields.
  - Poetry provides the practical knowledge needed for scientific inquiry.
  - Science is more empirical, while poetry is purely imaginative.
  - Both involve an unusual juxtaposition of ideas and a romantic vision of the world.
16. The remaining prisoners in the cave react when the freed prisoner returns to explain the outside world by \_\_\_\_  
(Allegory of the Cave)
- becoming hostile and resistant to the new ideas
  - being indifferent and uninterested
  - eagerly accepting and embrace the new information
  - being amused but unconvinced
17. Camus suggests one should respond to the absurd condition of life by \_\_\_\_  
(The Myth of Sisyphus)
- seeking comfort in religious belief.
  - committing to political activism.
  - acknowledging the absurdity and continuing to live with passion and defiance.
  - withdrawing from society and living in isolation.
18. What does Freud suggest is necessary for reducing the likelihood of war?  
(Letter to Einstein)
- Greater economic development and wealth distribution.
  - A deeper understanding and management of human instincts.
  - Political reforms and international treaties.
  - Technological innovations and advancements.
19. What does the Svetlovidov's monologue reveal about his character? (Swan Song)
- his ambition to achieve greater fame
  - his regret over lost opportunities and personal failures
  - his desire to leave the theater and pursue a new career
  - his admiration for younger actors
20. Which of the following scientific advancements does Charles an Doren attribute to the influence of theoretical physics in the twentieth century?
- the development of quantum mechanics
  - the invention of the telephone
  - the discovery of radioactivity
  - the creation of the atomic bomb

