



**SPRING END SEMESTER EXAMINATION-2024**

**4<sup>th</sup> Semester B.Tech**

**SCIENTIFIC & TECHNICAL WRITING**

**EX20003**

**(For 2022 & Previous Admitted Batches)**

Time: 2 Hours 30 Minutes

Full Marks: 50

*Answer any FIVE questions.*

*Question paper consists of two SECTIONS i.e. A and B.*

*Section A is compulsory.*

*Attempt any Four question from Sections B.*

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable and all parts of a question should be answered at one place only.*

**SECTION-A**

1. Answer the following questions: [1 × 10]
- (a) Which of the following topics is most likely to be written about in a technical style?  
A sunset/ the cuisine of a country/ electronic circuitry/ a dentist's office/ a classroom environment
  - (b) Nominalize both verbs in the following sentence:  
Can you please evaluate what the student demonstrated?
  - (c) Should a shopping list be written as a numbered list or a bulleted list? Give one reason for your answer.
  - (d) Identify two transition elements in the following sentence:  
Contrary to homepages and other web pages, a landing page is a standalone page. It is disconnected from the website's navigation, focused on the sole purpose of convincing a visitor to sign up for a free trial or buy a product.
  - (e) What does a cover page of a thesis contain?

- (f) What is the purpose of Conflict-of-Interest Statement in a research document?
- (g) Find the correct one:
- The torque is 25 n.m.
  - The torque is 25 n.m.
  - The torque is 25 nm.
  - The torque is 25 N m.
- (h) Correct the following sentence:  
During the last five days, the temperature rose by 4°C.
- (i) Frame a suitable title using capitalization rule for the below mentioned conditions:  
Due to mixed traffic conditions, accidents are unavoidable in smart city Bhubaneswar.
- (j) Explain the difference between creator and author.

## SECTION-B

2. (a) Study the following information. Mention what kind of [1+4=5]  
technical writing it is. Point out four characteristics of technical writing in it:

<b>Nutrition Facts</b>	
8 servings per container	
<b>Serving size</b>	<b>2/3 cup (55g)</b>
<b>Amount per serving</b>	
<b>Calories</b>	<b>230</b>
<b>% Daily Value*</b>	
<b>Total Fat</b> 8g	<b>10%</b>
Saturated Fat 1g	5%
Trans Fat 0g	
<b>Cholesterol</b> 0mg	<b>0%</b>
<b>Sodium</b> 160mg	<b>7%</b>
<b>Total Carbohydrate</b> 37g	<b>13%</b>
Dietary Fiber 4g	14%
Total Sugars 12g	
Includes 10g Added Sugars	20%
<b>Protein</b> 3g	
Vitamin D 2mcg	10%
Calcium 260mg	20%
Iron 8mg	45%
Potassium 240mg	8%

\* The % Daily Value (DV) tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.

- (b) Correct the following paragraph:

ATM's are Not Taking Debit card's, please pay In Cash. Please make Sure your given the Correct change before You leave the ATM.

[5]

3. (a) Should a project proposal be developed in a Description pattern, or a Persuasion pattern, or a Cause-and-Effect pattern? Give reasons for your answer. [1+4=5]
  - (b) Compose a brief Process pattern paragraph on 'How to avoid plagiarism.' (150 words) [5]
  4. (a) List the sections of a research manuscript in a sequential order and explain them briefly. [5]
  - (b) Write a suitable title, abstract and keywords for the following paragraph. [5]
- This study explores the optimization of route selection to enhance travel efficiency by employing a multi-criteria approach. The objective is to identify the most suitable route considering factors such as distance, travel time, traffic conditions, and safety. Through a systematic evaluation process, potential routes are assessed based on these criteria, and the optimal route is selected to minimize travel time and maximize safety. The methodology involves identifying the destination, analyzing possible routes, evaluating each route based on predefined criteria, and selecting the route that best meets the established criteria. This research aims to provide practical insights into route planning strategies for individuals and transportation systems to improve overall travel experience and efficiency.
5. (a) Following any standard reference style, write details of references for a book, a journal paper, a book chapter, conference proceedings and material on the Web. [5]

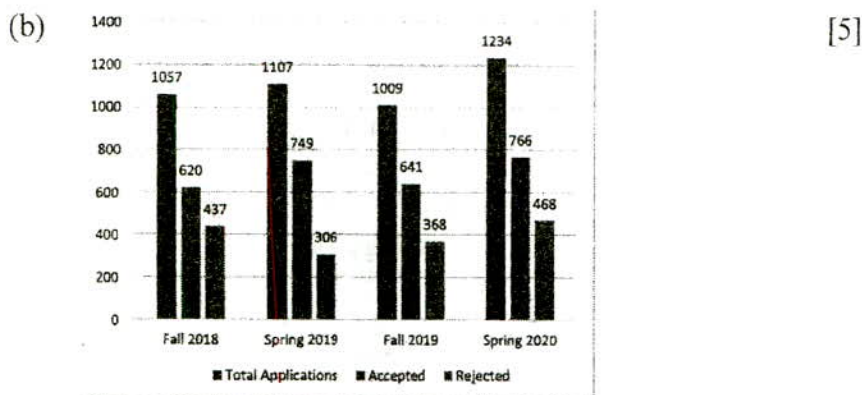


Figure 1: Session-wise Students' Application Status



Represent the data of Figure 1 in an appropriate Tabular format and Label the Table with appropriate caption.

6. (a) In conducting your research, you have received assistance from others in the form of materials, funding, methodologies, fellowships, collaborative discussions, and manuscript revisions. Write acknowledgments in the required sequence mentioning the above points. [5]
- (b) Draw a logic flowchart to depict the following process of a student considering engineering as one of his career options. [5]

The process begins with a student considering engineering as their field of study. The student decides to pursue engineering through entrance exam or direct admission.

Entrance Exam: If the student qualifies the entrance exam, then they proceed to choose an engineering college. Then they apply for admission, and if their entrance exam score meets the cut-off set by the college, they attend counseling, select a specialization, complete the admission process, and ultimately join the college.

Direct Admission: Alternatively, the student might seek direct admission by meeting the eligibility criteria set by certain colleges. If they meet the criteria, then they proceed to choose an engineering college, apply for admission, provide their academic record and test scores. If they meet the admission criteria, then they proceed with the admission process, pay fees, and join the college.

The process concludes either when the student successfully joins a college or decides not to pursue engineering at that time.

\*\*\*\*\*