

GU TECH STANDARD ADMISSION TEST (GSAT)

SAMPLE TEST PAPER (WITH ANSWERS)

This sample test provides an opportunity to familiarize yourself with the format and types of multiple-choice questions (MCQs) you will encounter on the actual paper-based admission test, which has a duration of 1 hour and 30 minutes, for the **BS Computer Science** program applicants.

The test covers five key areas:

- English
- Reading Comprehension
- Quantitative Reasoning
- Logical Reasoning
- General Knowledge.

Here's a breakdown of the test format:

- **English (30 points):** This section assesses your ability to use grammar, mechanics, and vocabulary effectively in written communication.
- **Reading Comprehension (10 points):** This section evaluates your skill in understanding and interpreting written information.
- **Quantitative Reasoning (20 points):** This section measures your ability to analyze numerical data and solve problems using various mathematical concepts, including algebra, trigonometry, calculus, geometry, and vectors.
- **Logical Reasoning (20 points):** This section assesses your critical thinking skills and ability to identify patterns and relationships.
- **General Knowledge (20 points):** This section tests your knowledge of current events, history, science, and other broad topics.

We encourage you to review the sample questions and practice tests available to ensure you feel prepared for the actual admission test.

ENGLISH

Note: The sample questions provided below demonstrates the format of the English section.

1. **Vocabulary:** What is the meaning of the word "obscure"?
 - a) Clear
 - b) Vague
 - c) Popular
 - d) Obsolete

2. **Grammar:** Choose the correct sentence.
- a) She don't like apples.
 - b) She doesn't likes apples.
 - c) She doesn't like apples.
 - d) She don't likes apples.
3. **Synonym:** Select the synonym for "garrulous".
- a) Quiet
 - b) Reserved
 - c) Talkative
 - d) Silent
4. **Antonym:** Select the antonym for "benevolent".
- a) Kind
 - b) Cruel
 - c) Generous
 - d) Sympathetic
5. **Sentence Correction:** Which sentence is grammatically correct?
- a) The quick brown fox jumps over the lazy dog.
 - b) The quick brown fox jump over the lazy dog.
 - c) The quick brown fox jumped over the lazy dog.
 - d) The quick brown fox jumping over the lazy dog.

READING COMPREHENSION

Note: The sample question provided below demonstrates the format of the Reading Comprehension section.

Read the following passage and answer the questions:

Passage: The Amazon rainforest is the largest tropical rainforest in the world, covering over 5.5 million square kilometers. It is home to an incredible diversity of species, many of which are not found anywhere else on Earth. The rainforest also plays a critical role in regulating the global climate and is often referred to as the "lungs of the planet."

6. Question: What is the main idea of the passage?
- a) The Amazon rainforest is the smallest tropical rainforest.
 - b) The Amazon rainforest has a diverse range of species.
 - c) The Amazon rainforest is important for the global climate.
 - d) The Amazon rainforest covers only a small area.
7. Question: According to the passage, what is one reason the Amazon rainforest is important?
- a) It covers a small area.
 - b) It is home to many unique species.
 - c) It is located in South America.
 - d) It is easy to explore.
8. Question: What is meant by the phrase "lungs of the planet"?
- a) The Amazon produces oxygen and absorbs carbon dioxide.
 - b) The Amazon is home to many trees.
 - c) The Amazon is located on the equator.
 - d) The Amazon is very humid.
9. Question: What can be inferred about the species in the Amazon rainforest?
- a) All species are found in other parts of the world.
 - b) Many species are unique to the Amazon rainforest.
 - c) No species are unique to the Amazon rainforest.
 - d) The species are not important.
10. Question: Which of the following best describes the Amazon rainforest?
- a) Barren
 - b) Diverse
 - c) Small
 - d) Arid

QUANTITATIVE REASONING

Note: The sample question provided below demonstrates the format of the Quantitative Reasoning section.

1. **Vector:** The curl of vector $F(x, y, z) = x i + y j + z k$
- a) $xi + yj + zk$
 - b) $i + j + k$.

- c) 0
- d) None of these

2. **Algebra:** . When $x = 3$ and $y = 5$, by how much does the value of $3x^2 - 2y$ exceed the value of $2x^2 - 3y$?

- a) 4
- b) 14**
- c) 16
- d) 20
- e) 50

3. **Calculus:**

What is $\lim_{h \rightarrow 0} \frac{8\left(\frac{1}{2} + h\right)^8 - 8\left(\frac{1}{2}\right)^8}{h}$?

- a) 0
- b) $\frac{1}{2}$**
- c) 1
- d) The limit does not exist.

4. **Trigonometry:** if $\cos \Theta = 2/3$ and $\cos \Theta / \tan \Theta > 0$, then Θ is in the

- a) the 1st quadrant
- b) the 3rd quadrant
- c) the 4th quadrant**
- d) 1st & 3rd quadrant

5. **Geometry:** The volume, V , of the right circular cone with radius r and height h , shown below, can be found using the formula $V = \frac{1}{3}r^2h$. A cone-shaped paper cup has a volume of 142 cubic centimeters and a height of 8.5 centimeters. What is the radius, to the nearest centimeter, of the paper cup?

- a) 2
- b) 4**
- c) 8
- d) 12
- e) 16

LOGICAL REASONING

Note: The sample question provided below demonstrates the format of the Logical Reasoning section.

1. **Pattern Recognition:** What is the next number in the series: 2, 4, 8, 16, ____?
 - a) 24
 - b) 32
 - c) 40
 - d) 48

2. **Analogy:** Apple is to fruit as carrot is to:
 - a) Vegetable
 - b) Root
 - c) Plant
 - d) Seed

3. **Syllogism:** All mammals are animals. All whales are mammals. Therefore, all whales are:
 - a) Fish
 - b) Reptiles
 - c) Birds
 - d) Animals

4. **Logical Deduction:** If all roses are flowers and some flowers fade quickly, can we conclude that some roses fade quickly?
 - a) Yes
 - b) No

5. **Odd One Out:** Which of the following does not belong?
 - a) Triangle

- b) Square
- c) Circle
- d) Rectangle

GENERAL KNOWLEDGE

Note: The sample question provided below demonstrates the format of the Logical Reasoning section.

1. **Geography:** Which is the largest continent by land area?
 - a) Africa
 - b) Asia
 - c) Europe
 - d) North America

2. **History:** Who was the first president of the United States?
 - a) Thomas Jefferson
 - b) Abraham Lincoln
 - c) George Washington
 - d) John Adams

3. **Science:** What is the chemical symbol for water?
 - a) H
 - b) O
 - c) CO₂
 - d) H₂O

4. **Literature:** Who wrote "Pride and Prejudice"?
 - a) Charles Dickens
 - b) Jane Austen
 - c) Mark Twain
 - d) Emily Brontë

5. **Sports:** How many players are there on a standard soccer team?
 - a) 9
 - b) 10
 - c) 11
 - d) 12

ANSWER KEYS

ENGLISH

1. B
2. C
3. C
4. B
5. A
6. C
7. B
8. A
9. B
10. B

QUANTITATIVE REASONING

1. A
2. B
3. B
4. C
5. B

LOGICAL REASONING

1. B
2. A
3. D
4. A
5. C

GENERAL KNOWLEDGE

1. B
2. C
3. D
4. B
5. C