



B.E. ELECTRICAL ENGINEERING (Electronics & Telecom)
COLLEGE OF ENGINEERING & SCIENCES
INSTITUTE OF BUSINESS MANAGEMENT
SAMPLE ADMISSION TEST

Time Allowed: One Hour

Instructions: Please read the following instruction carefully before attempting the paper.

1. There are 85 MCQs in the test, each carrying equal marks. Each correct response gets 1 mark. Attempt all the questions.
2. For every question four options (A, B, C, D) are given, you have to select only one correct option.
3. Use pencil to shade the circle in the given options.
4. Erasing, cutting or overwriting is not allowed. Once an answer has been given on answer sheet, the candidate will not be allowed to change it. Shading two or more options for a question will get Zero marks for that question.

SECTION-I

ENGLISH-(MCQs: 25)

Direction: In each of the following sentences, a word or phrase is underlined. From the choices given, select the one word or phrase that best preserves the meaning of the original sentence. Indicate the correct answer by blackening the corresponding space on the answer grid.

1. He is good at designing engines.

(a) Skillful

(c) Knowledgeable

(b) Artistic in

(d) Clever

2. The teacher scolded him for his mistake.

(a) Encouraged

(c) Liked

(b) Admonished

(d) Annoyed

(a) Slow

(b) Calm

Directions: Choose the best opinion to complete the following sentence:

3. Plastic bags are _____ symbols of consumer society; they are found wherever you travel.

(a) Rare

(c) Ubiquitous

(b) Ephemeral

(d) Fleeting

4. After an initially warm reception by most reviewers and continued _____ by conservative thinkers, Tariq's work came under heavy fire.

(a) Criticism

(c) Denigration

(b) Endorsement

(d) Counterattack

Directions: Choose the most appropriate preposition.

5. We must attend _____ our ailing leader.

(a) On

(c) To

(b) After

(d) For

6. I take pleasure _____ long walks.

(a) Of

(c) By

(b) For

(d) In

CRITICAL READING

Instructions: The questions in this group are based on the content of a passage. After reading the passage, choose the best answer to each question. Answer all questions following the passage on the basis of what is stated or implied in the passage:

SECTION-II CHEMISTRY (MCQs: 15)

1. Which is not a type of elements?

a. Metals

c. Metalloids

b. Non Metals

d. Gases

2. Which acid is present in lemon?

a. Malic acid

c. lactic acid

b. citric acid

d. tartaric acid

3. Identify the wrong statement in the following

a. Atomic radius of the elements increases as one moves down the first group of the periodic table

b. Atomic radius of the elements decreases as one moves across from left to right in the 2nd period of the

c. Amongst isoelectronic species, smaller the positive charge on the cation, smaller is the ionic radius

d. Amongst isoelectronic species, greater the negative charge on the anion, larger is the ionic radius

SECTION-III

PHYSICS (MCQs: 20)

1. ML-1 T-2 is dimension of
 - A. energy
 - B. pressure**
 - C. momentum
 - D. force
2. The number of significant figures in the length of a bar 6200mm measured by meter rod are
 - A. four**
 - B. three
 - C. two
 - D. none of these
3. If velocity is doubled then
 - A. momentum increases 2 times and K.E increases constant
 - B. momentum and K.E. remain same
 - C. momentum increases 4 times and K.E increases 2 times
 - D. momentum increases 2 times and K.E increases 4 time**

SECTION-IV

MATHEMATICS (MCQs: 25)

1. Evaluate the integral of $\sin^6 x \, dx$ from 0 to $\pi/2$:

A) $\pi/32$	C) $3\pi/32$
B) $2\pi/17$	D) $5\pi/32$
2. $5/8\%$ is equal to what?

A) $1/800$	C) $1/160$
B) $1/200$	D) $0.8/5$
3. $4/3$ of a number is 22 what is $8/3$ of that number:

A) 44	C) 3
B) 2	D) 11

PART - V

NUMBER / LETTER SERIES

Time: 10 Minutes

Item: 15

DIRECTION: Study the series of numbers given below. Workout the pattern of each series and identify the next number in the series stated below, darken the suitable block, according to your choice:

	Question Series					Answer Series			
						A	B	C	D
1.	A	F	J	M	O	L	P	O	M
						The correct Answer is B			
2.	Y	V	S	P	M	O	D	J	F
						The correct Answer is C			
3.	3	9	15	21	27	33	43	39	41
						The correct Answer is A			

Please do not turn this page until you are instructed to do so.

PART - VI
GENERAL KNOWLEDGE

Time: 10 Minutes
Item: 15

DIRECTION: Choose any correct Answer:

1. The portrait of Mona Lisa is in an Art Gallery in:

- A) **Paris**
- B) Rome
- C) Copenhagen
- D) New York
- E) None of these

2. Wimbledon is famous for:

- A. **Tennis**
- B. Soccer
- C. Swimming
- D. Hockey
- E. None of these

3. Secretary General of UN is:

- A. Colin Powell
- B. **Antonio Guterres**
- C. Jaswant Singh
- D. Hilary Clinton
- E. None of these

4. The World Trade Centre was attacked on:

- A. **September 11, 2001**
- B. October 07, 2001
- C. August 11, 2001
- D. October 17, 2001
- E. None of these

Candidate No.

A grid for entering the candidate number, consisting of 10 rows and 10 columns of boxes. The top row contains numbers 0-9. Below it are four rows of numbers 0-9 and six more rows of empty boxes.

Program: _____
Group: _____

Aptitude Test

Name:

Father's Name:

Candidate No:

Candidate's Signature

PART-I

1-25

A vertical list of 25 questions, each followed by a 4x5 grid of bubbles for answers.

PART-III

1-20

A vertical list of 20 questions, each followed by a 4x5 grid of bubbles for answers.

PART-V

1-15

A vertical list of 15 questions, each followed by a 4x5 grid of bubbles for answers.

Instructions

- USE PENCIL ONLY TO SHADE BOXES
- WRITE OTHER INFORMATIONS IN INK
- MAKE DARK MARKS
- EXAMPLE (A) (B) (C) (D) (E)
- ERASE COMPLETELY TO CHANGE
- EXAMPLE (A) (B) (C) (D) (E)
- Fill in above information very carefully as explained in the Example below.

EXAMPLE

Roll No.

2	7	1	0	5	9		
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A grid showing how to shade bubbles for the roll number 271059. Each digit is followed by a 4x5 grid of bubbles. The correct bubbles are shaded black.

PART-II

1-15

A vertical list of 15 questions, each followed by a 4x5 grid of bubbles for answers.

PART-IV

1-25

A vertical list of 25 questions, each followed by a 4x5 grid of bubbles for answers.

PART-VI

1-15

A vertical list of 15 questions, each followed by a 4x5 grid of bubbles for answers.