

## SAMPLE PAPER GAT-GENERAL FOR

- ME- Renewable Energy Systems
- ME- Electrical Engineering

VERBAL				
S.No	Core Areas	Questions	Total Questions	Percentage
1	Synonyms	05	35	35%
2	Antonyms	05		
3	Use of Preposition	05		
4	Error Detection	05		
5	Sentence Structure	05		
6	Reading Comprehension	10		
QUANTITATIVE ANALYSIS				
S.No	Core Areas	Questions	Total Questions	Percentage
1	Averages	05	35	35%
2	Ratio & Proportion	05		
3	Percentage	04		
4	Probability	04		
5	Permutation	04		
6	Algebra	04		
7	Equations	04		
8	Inequalities	05		
ANALYTICAL ANALYSIS				
S.No	Core Areas	Questions	Total Questions	Percentage
1	Logical Analysis	15	30	30%
2	Analytical Reasoning	15		

**Total # of Questions: 100**

**Time Allowed: 120 Minutes**

## VERBAL (35%)

### VOCABULARY: SYNONYMS (5 Questions)

**Instructions:** Sentences are given below with a word underlined in each. Below each sentence a multiple choice is given. Find out the proper word that is **similar in meaning** to the underlined word in each sentence, and shade its answer letter from multiple choice of words A, B, C or D against the corresponding number in the answer sheet.

1. Love is a passion that inspires one to make marvels.

- A. miracles                      B. puzzles                      C. wonders                      D. mazes

2. Love prepares man to surmount great heights and achieve brilliant success.

- A. overcome                      B. subdue                      C. vanquish                      D. defeat

### VOCABULARY: ANTONYMS (5 Questions)

**Instructions:** Sentences are given below with a word underlined in each. Below each sentence a multiple choice is given. Find out the proper word that is **opposite in meaning** to the underlined word in each sentence, and shade its answer letter from multiple choices of words A, B, C or D against the corresponding number in the answer sheet.

1. The romantic gestures testify that every person is lover of one's own self.

- A. falsify                      B. justify                      C. intensify                      D. rectify

2. You are enamoured of only their physical qualities.

- A. bored                      B. disgusted                      C. annoyed                      D. proud

### USE OF PREPOSITIONS: (5 Questions)

**Instructions:** Sentences are given below. In each sentence, you have to put the correct preposition. Choose **the correct preposition** for every sentence and shade its answer letter A,B,C or D against the corresponding number in the answer sheet.

1. I came.....an old friend of mine in Liberty Market this morning.

- A. around                      B. by                      C. across                      D. with

2. The region is noted.....its quality cattle.

- A. for                      B. by                      C. on                      D. to

## **ERROR DETECTION (Finding out mistakes) (5 Questions)**

**Instructions:** **Find the errors** in the given sentences set below. Choose the possible word (s) from the given multiple choice (A,B,C or D) in each sentence that renders (makes) the sentence incorrect and shade the correct answer letter A,B,C or D against the corresponding number in the answer sheet.

1. It is a long time since we exchanged letters last.  
A                      B                      C                      D
2. I am waiting for you since morning.  
A      B      C                      D

## **SENTENCE STRUCTURES: (5 Questions)**

**Incomplete sentences are given below with the multiple choices of words under each sentence. Pick a word that best completes the sense in each sentence, and write its letter A,B,C or D in the answer sheet.**

1. **The police were shocked by the.....of the attack.**  
A. ferocity                      B. fury                      C. fearfulness                      D. apprehension
2. ....you see him, give him this note.  
A. When                      B. Provided                      C. If                      D. Where

## **(1) READING COMPREHENSION (10 Questions)**

“I am writing to complain about the poor service provided by your train company. Yesterday I travelled on the 7:20 from Oxford to London Paddington. Not only was the train thirty minutes late leaving Oxford but we were further delayed at Reading and no explanation or apology was offered. Furthermore, the heating broke down and the train got colder and colder. I complained to a member of staff, who was most unhelpful and unsympathetic. As a result of the delays I was two hours late for an important meeting with a valuable client, which caused considerable difficulty and embarrassment. In the circumstances I believe I am entitled to compensation. I look forward to hearing from you very soon.”

**Instruction: Read the above passage carefully and answer the following questions:**

1. **The writer of the above cited letter is:**  
A. a Manager                      B. a Traveler                      C. an Advisor                      D. a Railway Traffic Officer
2. **The train was initially late by:**  
A. half an hour                      B. one and a half hours                      C. quarter of an hour                      D. 02 hours

## QUANTITATIVE ABILITY (35%)

**Instructions:** Sentences are given below, for each sentence a multiple choice is given. Find out the choice that will answer the question and shade its answer letter from multiple choice of words A, B, C or D against the corresponding number in the answer sheet.

### Average (05 Questions)

1. In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs?

A.6.25  
C.6.75

B.6.5  
D.7

2. A family consists of two grandparents, two parents and three grandchildren. The average age of the grandparents is 67 years, that of the parents is 35 years and that of the grandchildren is 6 years. What is the average age of the family?

A.  $28\frac{4}{7}$  years  
C.  $32\frac{1}{7}$  years

B.  $31\frac{5}{7}$  years  
D. None of these

### Ratio & Proportion (05 Questions)

1. A and B together have Rs. 1210. If  $\frac{4}{15}$  of A's amount is equal to  $\frac{2}{5}$  of B's amount, how much amount does B have?

A.Rs. 460  
C.Rs. 550

B.Rs. 484  
D.Rs. 664

2. Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is:

A.2 : 5  
C.4 : 5

B.3 : 5  
D.6 : 7

### Percentage (04 Questions)

1 A batsman scored 110 runs which included 3 boundaries and 8 sixes. What percent of his total score did he make by running between the wickets?

A.45%  
C.  $54\frac{6}{11}$  %

B.  $45\frac{5}{11}$  %  
D.55%

2 Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are:

A. 39, 30

B. 41, 32

C. 42, 33

D. 43, 34

### **Probability (04 Questions)**

1. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?

A.  $\frac{1}{2}$

B.  $\frac{2}{5}$

C.  $\frac{8}{15}$

D.  $\frac{9}{20}$

2. A bag contains 2 red, 3 green and 2 blue balls. Two balls are drawn at random. What is the probability that none of the balls drawn is blue?

A.  $\frac{10}{21}$

B.  $\frac{11}{21}$

C.  $\frac{2}{7}$

D.  $\frac{5}{7}$

### **Permutation (04 Questions)**

1. From a group of 7 men and 6 women, five persons are to be selected to form a committee so that at least 3 men are there on the committee. In how many ways can it be done?

A. 564

B. 645

C. 735

D. 756

2. In how many different ways can the letters of the word 'LEADING' be arranged in such a way that the vowels always come together?

A. 360

B. 480

C. 720

D. 5040

### **Algebra (04 Questions)**

1. Convert the following SOP expression to an equivalent POS expression.

$$ABC + A\bar{B}\bar{C} + A\bar{B}C + AB\bar{C} + \bar{A}\bar{B}C$$

A.  $(\bar{A} + \bar{B} + \bar{C})(A + B + \bar{C})(\bar{A} + B + C)$

B.  $(A + B + C)(A + \bar{B} + C)(A + \bar{B} + \bar{C})$

C.  $(\bar{A} + \bar{B} + \bar{C})(A + \bar{B} + C)(A + \bar{B} + C)$

D.  $(A + B + C)(\bar{A} + B + \bar{C})(A + \bar{B} + C)$

2. Determine the values of A, B, C, and D that make the sum term  $\bar{A} + B + \bar{C} + D$  equal to zero.

A.  $A = 1, B = 0, C = 0, D = 0$

B.  $A = 1, B = 0, C = 1, D = 0$

C.  $A = 0, B = 1, C = 0, D = 0$

D.  $A = 1, B = 0, C = 1, D = 1$

### **Equations (04 Questions)**

1. The system of linear equations  $4x + 2y = 1$ ,  $2x + y = 6$  has

A. a unique solution

B. no solution

C. an infinite number of solutions

D. exactly two distinct solutions

## **Inequalities (05 Questions)**

1. A man has Rs. 480 in the denominations of one-rupee notes, five-rupee notes and ten-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has ?

A. 45

B. 60

C. 75

D. 90

2. There are two examinations rooms A and B. If 10 students are sent from A to B, then the number of students in each room is the same. If 20 candidates are sent from B to A, then the number of students in A is double the number of students in B. The number of students in room A is:

A. 20

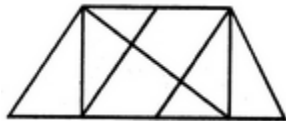
B. 80

C. 100

D. 200

## **ANALYTICAL ANALYSIS (30%)**

1. Find the number of triangles in the given figure.



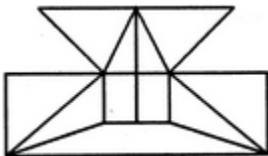
A.8

B.10

C.12

D.14

2. Find the minimum number of straight lines required to make the given figure.



A.16

B.17

C.18

D.19