SPECIMEN QUESTIONS
(PHYSICS)

In this part there are 30 questions like the one given below.

EXAMPLES:

1.   The product of mass and velocity is called
   A.   Acceleration
   B.   Moment Arm
   C.   Negative Acceleration
   D.   Momentum

We know that the product of mass and velocity is called momentum. Hence the correct answer is Momentum. therefore, the circle under column "D" will be filled on the answer sheet.

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

2.   Which one of the following represents the unit of acceleration?
   A.   ms
   B. ms^{-2}
   C. ms^2
   D. Ms^2s^2

Acceleration is measured in meters per second per second . So the circle under column "B" should be filled on the answer sheet.

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

3.   A car has an initial speed of 15 m/s and an acceleration of $2m/s^2$. After first 10 seconds, the car will be traveling at
   A.   17 m/s
   B.   20 m/s
   C.   35 m/s
   D.   250 m/s

We know that V = V +*at*, therefore the speed will be 15+20=35 m/s. Hence the circle under column "C" should be filled on the answer sheet.

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

ALL ANSWERS MUST BE GIVEN BY COMPLETELY FILLING THE CIRCLE UNDER THE CORRECT LETTER ON THE ANSWER SHEET.

SPECIMEN QUESTIONS
(MATHEMATICS)

In this part there are 30 questions like the one given below.

EXAMPLES:

1. Given sets A and B, (A∪B)'=
   A. A'∪B'
   B. A'∩B'
   C. A∪B
   D. A∩B

The De Morgan law states that (A∪B)' =A' ∩ B ' therefore, the correct choice is "B", and you will fill the circle under letter B on the answer sheet.

	A	B	C	D
CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET	◯	●	◯	◯
WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET	◯	◉	◯	◯

2. Given A is a 2x2 matrix then the product of A and its inverse is a …..
   A. 4x4 matrix .
   B. 2x2 null matrix
   C. 2x2 identity matrix
   D. 4x4 identity matrix

A matrix of order n x n multiplied by its inverse yields an n x n identity matrix. Therefore the third choice is the correct one, and you will fill the circle under letter "C" on the answer sheet.

	A	B	C	D
CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET	◯	◯	●	◯
WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET	◯	◯	◑	◯

3. A sum of two consecutive positive integers is, 113 and their difference is 1,
   The integers are
   A. 8, 9
   B. 16,17
   C. 56,57
   D. 69, 70

Let x and y be the unknown integers. Then according to the given information x+ y =113, and x- y = 1. Solving these two linear equations simultaneously we get x=57 and y=56 therefore the third choice is the correct one, and you will fill the circle under the letter "C" on the answer sheet.

	A	B	C	D
CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET	◯	◯	●	◯
WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET	◯	◯	▓	◯

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SPECIMEN QUESTIONS
(ENGLISH)

In this part there are 10 questions like the one given below.

This part of the test consists of sentences, all of which contain some mistake(s) related to grammar, punctuation and/or spellings.

SPOT THE ERROR

In the first type of sentences, some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains the mistake that needs to be corrected. Write its corresponding letter in the answer sheet.

Examples: Type-1

1. They <u>were daughters</u> of a hardworking <u>washermen</u> who went <u>about from</u> house <u>to house.</u>

         A   B   C   D

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET   A○ B● C○ D○

WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET   A○ B◉ C○ D○

2. Those <u>who watch</u> her marvelled <u>at her</u> casual <u>manner</u> as she <u>stepped out of</u> aeroplane.

         A   B   C   D

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET   A● B○ C○ D○

WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET   A◉ B○ C○ D○

PICK THE CORRECT ONE

In each question in the following, four alternative sentences are given. Choose the **CORRECT** one and fill the circle corresponding to that letter in the answer sheet.

Examples; Type-2

3. a) The packet containing the documents had lost.
    b) The packet containing the documents was lost.
    c) The packet containing the documents were lost.
    d) The packet containing the documents are lost.

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET   A○ B● C○ D○

WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET   A○ B◑ C◉ D○

4. a) The new boss has taken up the office now.
    b) The new boss has taken over the office now.
    c) The new boss has taken on the office now.
    d) The new boss has taken down the office now.

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET   A○ B● C○ D○

WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET   A○ B◓ C○ D○

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THE CORRECT LETTER ON THE ANSWER SHEET.**

SPECIMEN QUESTIONS
(CHEMISTRY)

In this part there are 30 questions like the one given below.

EXAMPLES:

1.   The chemistry of Carbon is called
        A.   organic chemistry
        B.   inorganic chemistry
        C.   physical chemistry
        D.   pharmaceutical chemistry

Since the chemistry of carbon is called "organic chemistry", therefore the circle under column "A" will be filled on the answer sheet as shown on the enclosed sample answer sheet.

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

2.   How many moles of Sulphur are there in 64 grams of the element?
        A.   1
        B.   2
        C.   3
        D.   4

Since the atomic weight of sulphur is 32 therefore weight of 2 moles of sulphur is 64 grams. Hence the second choice is correct and you should fill the circle under column "B" on the answer sheet.

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

3.   The electrons are observed to be
        A.   neutral.
        B.   positively charged.
        C.   negatively charged.
        D.   with both -ve and +ve charges.

The electrons are negatively charged therefore the circle under column "C" should be filled on the answer sheet.

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

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SPECIMEN QUESTIONS
(STATISTICS)

In this part there are 30 questions like the one given below.

EXAMPLES:

1.   A Histogram consists of a set;
   A.   Rectangles
   B.   Triangles
   C.   Squares
   D.   Quadrilaterals

We all know that Histogram consists of a set of "rectangles" therefore, the circle under the column "A" will be filled on the answer sheet as shown on the enclosed sample answer sheet.

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

2.   The probability of having two boys in a family with two children is:
   A.   1 / 2
   B.   1 / 4
   C.   1 / 3
   D.   1 / 5

Since the probability of having two boys in a family with two children is;1/ 4;therefore, the second choice is correct and you should fill the circle under column "B" on the answer sheet.

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

3.   The linear correlation coefficient between two variables is:
   A.   Less then one
   B.   Greater than one
   C.   Between -1 and 1
   D.   Greater than three

The linear correlation coefficient between two variables is -1 and 1, therefore the circle under column "C" should be filled on the answer sheet.

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

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THE CORRECT LETTER ON THE ANSWER SHEET.**

SPECIMEN QUESTIONS
(COMPUTER SCIENCE)

In this part there are 30 questions like the one given below.

Q.1. What refers to the raw facts, including numbers and words, that are processed on a computer.
    A.   Data
    B.   Input Device
    C.   Information
    D.   Programs

The correct answer to this question is "A". Since only data refers to the raw fact that are processed on a computer whereas input device, information and programs do it. Therefore the circle under column "A" should be filled.

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET
WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

Q.2 The program that is related to controlling the actual operations of the computer.
    A.   Application Software
    B.   System Software
    C.   None of A & B
    D.   Both A & B

Since only system software is related to controlling the actual operations of the computer whereas Application software is not related to controlling the actual operations of the computer. Therefore the correct answer is "B" and the circle under column "B" should be filled.

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET
WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

Q.3 Which part of the computer electronically stores data and programs?
    A.   Floppy disk
    B.   Virtual memory
    C.   Main memory
    D.   Hard disk

The main memory stores both data and program, therefore, the third choice which is "C" should be filled on the answer sheet.

CORRECT WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET
WRONG WAY OF FILLING THE CIRCLE ON THE ANSWER SHEET

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THE CORRECT LETTER ON THE ANSWER SHEET.**