

SSC

MARCH 2022

**MATHEMATICS
ALGEBRA – PART I**

Time allowed: 2 hours

Maximum marks: 40

General Instructions:

- (i) All questions are compulsory.
- (ii) Use of calculator is not allowed.
- (iii) The numbers to the right of the questions indicate full marks.
- (iv) In case MCQ's Q. No. 1(A) only the first attempt will be evaluated and will be given credit.
- (v) For every MCQ, the correct alternative (A), (B), (C) or (D) of answers with sub question number is:

1. (A) For every sub question four alternative answers are given. Choose the correct answer and write the alphabet of it: [4]

(i) Which one is the quadratic equation?

A) $\frac{x}{x} - 3 = x^2$

B) $x(x + 5) = 2$

C) $n - 1 = 2n$

D) $\frac{1}{x^2}(x + 2) = x$

Answer: B) $x(x + 5) = 2$

Solution:

The general form of a quadratic equation is $ax^2 + bx + c = 0$.

Option A: $\frac{x}{x} - 3 = x^2 \Rightarrow x^3 + 3x - 5 = 0$

We can see it is not in the form of $ax^2 + bx + c = 0$.

Hence, it is not a quadratic equation.

Option B: $x(x + 5) = 2 \Rightarrow x^2 + 5x - 2 = 0$

We can see it is in the form of $ax^2 + bx + c = 0$, with $a = 1$, $b = 5$, and $c = -2$.

Hence, it is a quadratic equation.

Option C: $n - 1 = 2n \Rightarrow n + 1 = 0$

We can see it is not in the form of $ax^2 + bx + c = 0$.

Hence, it is not a quadratic equation.

Option D: $\frac{1}{x^2}(x + 2) = x \Rightarrow x^3 - x - 2 = 0$

We can see it is not in the form of $ax^2 + bx + c = 0$.

Hence, it is not a quadratic equation.

(ii) First four terms of an A.P. are, whose first term is -2 and common difference is -2 .

A) $-2, 0, 2, 4$

B) $-2, 4, -8, 16$

C) $-2, -4, -6, -8$

D) $-2, -4, -8, -16$

April 201mechanotechnology Question Paper

CL Gary



April 201mechanotechnology Question Paper:

April 201mechanotechnology Question Paper Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**April 201mechanotechnology Question Paper**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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