

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

# Maths Question Paper N2014 March April

**Guillaume Favre**



**Maths Question Paper N2014 March April:**

## **Maths Question Paper N2014 March April** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Maths Question Paper N2014 March April**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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