

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

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