

SSC

MARCH 2020

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 4 alternative answers are given. Choose the correct answer and write the alphabet of it: [4]

- (i) In the formal of GSTIN there are _____ alpha-numerals.
(A) 15 (B) 10 (C) 16 (D) 9

Answer: Answer is not given due to change in reduced syllabus.

- (ii) From the following equations, which one is the quadratic equation?
(A) $\frac{5}{x} - 3 = x^2$ (B) $x(x + 5) = 4$ (C) $n - 1 = 2n$ (D) $\frac{1}{x^2}(x + 2) = x$

Answer: (B) $x(x + 5) = 4$

- (iii) For simultaneous equations in variables x and y, if $D_x = 49$, $D_y = -63$, $D = 7$, then what is the value of x?
(A) 7 (B) -7 (C) $\frac{1}{7}$ (D) $-\frac{1}{7}$

Answer: (A) 7

- (iv) If $n(A) = 2$, $P(A) = \frac{1}{5}$, then $n(S) = ?$
(A) $\frac{2}{5}$ (B) $\frac{5}{2}$ (C) 10 (D) $\frac{1}{3}$

Answer: (C) 10

1. (B) Solve the following sub questions: [4]

- (i) Find second and third term of an A. P. whose first term is -2 and common difference is -2 .

Answer: Given,

First term, $a = -2$

Common difference, $d = -2$

We know that Second term $= a + d$

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Siddappa N.Byrareddy



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Zimsec 20exam 20maths 20paper 20 31 Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Zimsec 20exam 20maths 20paper 20 31**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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