



D.A.V. PUBLIC SCHOOLS

BIHAR ZONE

Half – Yearly Examination: 2022-2023

Class: IX

Subject - MATHEMATICS

Time- 3 Hrs

F.M.- 80

General Instructions:-

1. This question paper contains 34 questions. All questions are compulsory.
 2. The question paper divided into 4 sections A, B, C & D.
 3. Section A comprises 12 questions of 1 mark each. (Q. NO. 1-12)
 4. Section B comprises 6 questions of 2 marks each. (Q. NO. 13-18)
 5. Section C comprises 8 questions of 3 marks each. (Q. NO. 19-26)
 6. Section D comprises 8 questions of 4 marks each. (Q. NO. 27-34).
- NOTE:- In section D four questions (Q. NO. 31-34) are case study questions, each case study has 5 case - base sub parts. An examinee is to attempt any four out of five sub- parts.

SECTION-A (IX12-12)

- | | | | |
|----|-----|---|-----------------------------------|
| 01 | 1) | The number 0.217654217654 is | 1 |
| | (a) | a natural number | (b) an integer |
| | (c) | a rational number | (d) an irrational number. |
| | 2) | If $x = \sqrt{5} + 2$, then $x - \frac{1}{x}$ equals | 1 |
| | (a) | $2\sqrt{5}$ | (b) 4 |
| | (c) | 2 | (d) $\sqrt{5}$ |
| | 3) | The area of an equilateral triangle is $81\sqrt{3} \text{ cm}^2$, then its semi-perimeter is | 1 |
| | (a) | 18 cm. | (b) 36cm. |
| | (c) | 24cm. | (d) 27cm |
| | 4) | Decimal representation of a rational number cannot be | 1 |
| | (a) | terminating | (b) non terminating |
| | (c) | non terminating repeating | (d) non terminating non repeating |

P.T.O.

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