KENDRIYA VIDYALAYA SANGATHAN VARANASI REGION

PRE-BOARD-I EXAMINATION 2025-26

Subject: Mathematics Basic (241)

Class X

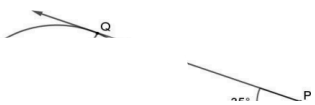
Time: 3hours **MAX. MARKS:80**

General Instructions:

Read the following instructions carefully and follow them:

1) This question paper contains 38 questions. All questions are compulsory.
2) This Question Paper is divided into 5 Sections- **A, B, C, D** and **E**.
3) In Section A, Questions no.1-18 are multiple choice questions (MCQs) and questions no. 19 and 20 are Assertion-Reason based questions of1mark each.
4) In Section B, Questions no.21-25 are very short answer (VSA) type questions carrying 2 marks each.
5) In Section C, Questions no.26-31 are short answer (SA) type questions, carrying 3 marks each.
6) In Section D, Questions no.32-35 are long answer (LA) type questions, carrying 5 marks each.
7) In Section E, Questions no. 36-38 are case study based questions carrying 4 marks each with sub parts of the values of 1, 1and 2marks each respectively.
8) All Questions are compulsory. However, an internal choice in 2 Questions of section B, 2 Questions of section C and 2 Questions of section D has been provided, and internal choice has been provided in all the 2 marks questions of Section E.
9) Draw neat and clean figures wherever required.
10) Take π=22/7 wherever required, if not stated.
11) Use of calculators is not allowed.

	Section A	
	Section A consists of 20 questions of 1mark each.	
1.	The sum of exponents of prime factors in the factorization of 2025 is (A) 5 (B) 6 (C) 7 (D)8	**1**
2.	The point of intersection of the line represented by 2x-3y =6 and y-axis is given by (A) (0,3) (B)(-3,0) (C) (0,2) (D) (0,-2)	**1**
3.	The roots of the equation x^2-2x-3=0 are (A)(-1,3) (B)(1,-3) (C)(-2,-3) (D)(2,-3)	**1**
4.	Which of the following is not equal to unity (one) (A) sec^2A- tan^2A (B) sin^2A+ cos^2A (C) $cosec^2$A+ cot^2A (D) secA.cosA	**1**
5.	Which of the following numbers can not be the probability of an event? (A)1.05 (B) 60% (C)0.85 (D)$\frac{4}{9}$	

6.	Perimeter of a sector of a circle whose central angle is 90° and radius 7 cm is (A)35 cm (B) 11cm (C)22 cm (D) 25 cm	**1**
7.	In the given figure, PQ and PR are tangents to a circle centered at O. If ∠QPR=35°then∠QOR is equal to 	**1**