

**KENDRIYA VIDYALAYA SITAPUR**  
**PERIODIC TEST-2 ( 2019-2020)**  
**CLASS-IX ( MATHS)**

**TIME: 90MIN**

**M.M: 40**

**INSTRUCTIONS:-** THIS QUESTION PAPER CONTAIN 16 QUESTIONS WHICH IS DIVIDED INTO FOUR SECTION . SECTION-A CONTAIN 4 QUESTION OF 1 MARK EACH AND SECTION-B CONTAIN 4 QUESTIONS OF 2 MARK EACH AND SECTION-C CONTAIN 4 QUESTIONS OF 3 MARK EACH AND SECTION- D CONTAIN 4 QUESTIONS OF 4 MARKS EACH.

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**SECTION-A (4X1=4)**

**Q.1:-** THE NUMBER OF RATIONAL NUMBERS BETWEEN TWO GIVEN RATIONAL NUMBER

- a) 1                      b) 2                      c) infinite                      d) finite

**Q.2:-** THE DEGREE OF THE POLYNOMIAL  $2x^2-3$  IS

- a) 2                      b) -2                      c) 3                      d) 0

**Q.3:-** HOW MANY POINTS ARE THERE IN A PLANE

- a) 0                      b) infinite                      c) 3                      d) 4

**Q.4:-** THE SUM OF INTERIOR ANGLE OF A QUADRILATERAL IS

- a)  $360^\circ$                       b)  $180^\circ$                       c)  $90^\circ$                       d)  $60^\circ$

**SECTION-B( 4X2=8)**

**Q.5:-** FIND THE VALUE OF THE POLYNOMIAL  $3x^2-4x+5$  IF  $x = 3$

**Q.6:-** LINE AB AND CD INTERSECT AT O . IF  $\angle AOC + \angle BOE = 70^\circ$  AND  $\angle BOD = 40^\circ$ , FIND  $\angle BOE$  AND REFLEX  $\angle COE$

**Q.7:-** AD AND BC ARE EQUAL PERPENDICULARS TO A LINE SEGMENT AB . SHOW THAT CD BISECTS AB.

**Q.8:-** THE ANGLES OF QUADRILATERAL ARE IN THE RATIO 3 :5:9:13. FIND ALL THE ANGLE OF THE QUADRILATERAL .

**SECTION-C ( 4X3= 12)**

**Q.9:-** FIND SIX RATIONAL NUMBERS BETWEEN  $\frac{1}{2}$  AND 1

**Q.10:-** REPRESENT THE FOLLOWING POINTS IN CO-ORDINATE PLANE

- a) ( 2 , 4)    b) ( 3 , -5 )    c) ( -4, 5)    d) ( - 3 , -5 )

**Q.11:-** PROVE THAT VERTICAL OPPOSITE ANGLE ARE EQUAL.

**Q.12:-**  $\angle LPQR = \angle PRQ$ , THEN PROVE THAT  $\angle LPQS = \angle PRT$

**SECTION-D (4X4=16)**

**Q.13:-** FIND FOUR SOLUTION OF  $2x+3y-6=0$

**Q.14:-** PROVE THAT THE SUM OF THE ANGLES OF A TRIANGLE IS  $180^\circ$

**Q.15:-** PROVE THAT THE ANGLE OPPOSITE TO EQUAL SIDES OF ISOSCELES TRIANGLE ARE EQUAL.

**Q.16:-** THE LINE SEGMENT JOINING THE MID POINTS OF TWO SIDES OF A TRIANGLE IS PARALLEL TO THE THIRD SIDE AND HALF OF IT.