TEST – 4 Syllabus:

(Ch.# 7,8,9,14,17 - 16 (Theorem #-4,5) Define of these chapter.

MATHEMATICS (SCIENCE)
TIME ALLOWED: 15 Min

2020- (9TH CLASS) PAPER: II (OBJECTIVE TYPE)
Marks: 15

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct fill that circle in front of that question with marker or Pen ink in the answer-book. Cutting or filling two or more circle will result in zero mark in that question.

1.1	The S.S of $ x-4 = -4$									
	(A) -8	(B) -16	(C) Blank or { }	(D) 8						
2.	Which of the following is the solution of the inequality? $3 - 4x \le 1$									
٠.	which of the follow									
	(A) -8	(B) -2	(C) 4	(D) None						
			$-2\angle x\angle \frac{2}{3}$							
3.	x = is a member of solution set of inequality 3									
		3								
	(A) 5	/D) 2	(6) 0	(D) $\frac{3}{2}$						
4.	(A) -5 If x is no larger tha	(B) 3	(C) 0	(D) 2						
+.			~>10	×-10						
	(A) $x \ge 8$		(C) $x > 10$	(D) $x < 10$						
5.		C' and elevator is at mot								
	(A) C<1600	(B) C ≤1600	(C) C ≥1600	(D) $1600 \text{ C} \ge$						
6.	x = 0 is solution of the inequality									
	(A) $x > 0$	(B) $3x + 5 < 0$	(C) $x + 2 = 0$	(D) $x - 2 < 0$						
7.	Point (-3,-3) lies in quadrant:									
	(A) I	(B) II	(C) III	(D) IV						
8.	Which ordered pair satisfies the equation $y = 2x$:									
	(A)(0.1)	(B) (2.2)	(C) (2.1)	(D) (1.2)						
9.	Distance between point (0,0) and (1,1) is:									
	(A) $\sqrt{2}$	(B) 1	(C) 0	(D) 2						
10.		ll sides equal is called	1-7-	(-)-						
		(B) Equilateral	(C) A and B	(D) None of these						
11.	The symbol used for	or similarity is								
	(A) -	(B) =	(C) ≅	(D) ≃						
12.	A triangular	is the union of a tria	ngle and its interior.							
	(A) Interior		(C) Region	(D) Exterior						
13.			a' and 'b' then the area will b	e.						
	(A) a + b		(C) a ÷B	(D) a x b						
14.	The right bisectors of the sides of a triangle are									
202	(A) Concurrent		(C) Collinear	(D) Non-collinear						
15.	One angle on the base of an isosceles triangle is 30°. What is the measure of the vertical angle is.									
	(A) 30°	(B) 60°	(C) 90°	(D) 120°						

	ABCD		ABCD		ABCD		ABCD		ABCD
1	ABCD	4	ABCD	7	ABCD	10	ABCD	13	ABCD
2	ABCD	5	ABCD	8	ABCD	11	ABCD	14	ABCD
3	ABCD	6	ABCD	9	ABCD	12	ABCD	15	ABCD

نوٹ:معروضی سوال نامے کوتوجہ سے پڑھیں اور ہر MCQ کی درست آپشن A,B,C,D کو پین کی سیابی یامارکرے اس طرح ٹرکر میں کرسیابی دا کرسے ہا ہرنہ نگلے۔ ایک سے زیادہ دائر ول کو پُرکرنے یا کاٹ کرپُرکرنے کی صورت میں مذکورہ جو اب خاط تصورہ وگا۔

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TEST-4 Syllabus: (Ch# 7,8,9,14,17 - 16 (Theorem #-4,5) Define of these chapter 2020-(9TH CLASS) MATHEMATICS (SCIENCE) Paper: (Essay Type) Time Allowed: 2:10 hours Maximum, Marks: 60 (PART-I) 2. Write short answers to any SIX (6) questions: 12 Define linear equation. Define Radical equation. (ii) (iii) Define Absolute value. (iv) What is additive closure property of inequality? Define Cartesian plane. (v) What are collinear and Non-collinear points in the plane? (vi) Define Scalene Triangle. (vii) Define Ratio and Proportion. (viii) Define concurrent lines and give at least three examples. (ix) 3. Write short answers to any SIX (6) questions: 12 Construct $\triangle ABC$ in which $\overline{mAB} = 3.2cm$, $\overline{mBC} = 4.2cm$, $\overline{mCA} = 5.2cm$ (i) Construct a right-angled isosceles triangle whose hypotenuse is 5.2cm. (ii) Solve $x + \frac{1}{3} = 2\left(x - \frac{2}{3}\right) - 6x$ (iii) Solve and check $\sqrt[3]{2x+3} = \sqrt[3]{x-2}$ (iv) Solve |3 + 2x| = |6x - 7|(v) Solve |x+2| - 3 = 5 - |x+2|(vi) Solve $3 \ge \frac{7 - x}{2} \ge 1$ (vii) Solve 3(x-1)-(x-2) > 2(x+4)(viii) Find the distance between $A(-4,\sqrt{2})$ and B(-4,-3)(ix) Write short answers to any SIX (6) questions: 4. 12 Find the mid-points of A(9,2), B(7,2) and C(0,0), D(0,-5)(i) Construct triangle $\triangle ABC$ in which $\overline{mAB} = 3.6cm$, $m\angle A = 75^{\circ}$, $m\angle B = 45^{\circ}$ (ii) Construct triangle if possible, $m\overline{AB} = 5.2cm$, $m\overline{AC} = 4.2cm$, $m\angle B = 45^{\circ}$ (iii) Define similar triangles. (iv) Use distance formula to prove whether or not the points (1,1),(-2,-8) and (4,10) lie on a (v) Find length of the diameter of the circle having centre at C(-3,6) and passing through (vi) P(1,3)Determine the quadrant of the Co-ordinate plane in which the following points lie: (vii) P(-4,3), Q(-5,-2), R(2,2), S(2,-6)Find K, given that the point (2,k), is equidistant from (3,7) and (9,1)(viii) Solve and check. $\sqrt{\frac{x+1}{x+5}}$

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Note: Attempt any THREE questions in all . But question No.9 is Compulsory.

$$2\frac{2}{3}x + \frac{2}{3}(5x - 4) > \frac{-1}{3}(8x + 7)$$

- If O(0,0), A(3,0) and B(3,5) are three points in the plane, find M_1 and M_2 as midpoints of the line segment AB and OB respectively. Find $\left|M_1M_2\right|$
- The vertices of a triangle are P(4, 6), Q(-2, -4) and R(-8, 2). Show that the length 6. (a) PR, QR is $\frac{1}{2}PQ$ of the line segment joining the midpoints of the line segments
 - Construct triangle ΔABC and draw perpendicular bisectors. (b) 4 $m\overline{BC} = 2.9cm$, $m\angle A = 30^{\circ}$, $m\angle B = 60^{\circ}$
- Prove that the midpoints of hypotenuse of a right triangle is equidistant from its three 7. (a) vertices P(-2, -5), Q(1,3) and R(-1, 0)
 - Construct a triangle $\triangle ABC$ equal in area to the quadrilateral ABCD, having $m\overline{AB} = 6cm$, $m\overline{BC} = 4cm$, $m\overline{AC} = 7.2cm$, $m\angle BAD = 105^{\circ}$, and $m\overline{BD} = 8cm$ (b) And prove areas are equal.
- Solve the equation: $x + \frac{1}{3} = 2 = \left(x \frac{2}{3}\right) 6x$ 8. (a)
 - Write the equation x 2y = -2 in the form of y = mx + c. (b)
- 9. Triangles on equal bases and of equal altitudes are equal in area.

