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# **MATHEMATICS**

# **BLUE PRINT**

S.No	Торіс	VSA (1mark)	Short	Short	Long	TOTAL
		(Indik)	(2marks)	(3marks)	(4marks)	(30)
1	Number			1	2	11
	System					
2	Algebra	1	2	2	3	23
3	Geometry	1	1	2	2	17
4	Trigonometry	1	2	3	2	22
5	Statistics	1	1	2	2	17
		4(4)	6(12)	10(30)	11(44)	90

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# Model Paper -1 (2016-17) SUMMATIVE ASSESSMENT - 1 CLASS X

# MATHEMATICS

Time allowed: 3 hours

Max.Marks: 90

## **General Instructions:**

### All Questions are compulsory

- The question paper consists of 31 questions divided into four sections A,B,C,D Section A comprises of 4 questions of 1 mark each, Section B Comprises of 6 questions of 2 marks each, Section C comprises of 10 questions Of 3 marks each and Section D comprises of 11 questions of 4 marks each.
- Use of calculator is not permitted.

## SECTION -A

- **1.** Find the zeroes of polynomial  $X^2 2X 8$ .
- 2. A ladder 10 m long reaches a window 8 m above the ground. Find the distance of the foot of the ladder from base of the wall .
- **3.** If sin A =  $\frac{3}{4}$ , calculate cos A.
- 4. Find the class mark of 15.5 20.5





# SECTION B (Q. No. 5 -10 each of 2marks)

- 5. If  $\alpha$  and  $\beta$  are zeroes of the Polynomial  $3x^2+5x+2$ , Find the value of  $\frac{1}{\alpha}+\frac{1}{\beta}$
- 6. For what value of a and b will the following system of linear equations have infinitely many solutions

(a-b)x + (a+b)y = 3a+b-2

- 7. If  $\triangle ABC \sim \triangle DEF$  and their areas be respectively 64 cm<sup>2</sup> and 121 cm<sup>2</sup>. If EF = 15.4 cm, Find BC.
- 8. If  $sin4A = cos(A-20^{\circ})$ , where 4A is an acute angle, find the value of A.
- **9.** Convert the following frequency distribution table into a less than type cumulative frequency distribution table:

Marks	0-5	5-10	10-15	15-20	20-25	25-30
No. of	4	7	12	18	6	3
students						

**10.** Evaluate cos48°-sin42°

# SECTION C (Q. No. 11 -20 each of 3 marks)

- **11.** Given HCF (306, 657) = 9. Find the LCM (306, 657).
- 12. Find the zeroes of the quadratic polynomial  $6x^2 7x 3$  and verify the relationship between the zeroes and the coefficients.
- **13.** Solve: 3x 5y =4

9x - 2y = 7 by using Elimination method.

- 14. If the areas of two similar triangles are equal then show that the triangles are congruent.
- **15.** ABC is an isosceles triangle right angled at C. Prove that  $AB^2 = 2AC^2$
- **16.** Prove that

 $(sinA + cosecA)^{2} + (cosA + secA)^{2} = 7 + tan^{2}A + cot^{2}A$ 

17. Without using trigonometric table evaluate the following

$$3\cos 68^\circ \csc 22^\circ - \frac{1}{2} \tan 43^\circ \tan 47^\circ \tan 12^\circ \tan 60^\circ \tan 78^\circ$$

**18.** If tan(A + B) = 
$$\sqrt{3}$$
 and tan(A - B) =  $\frac{1}{\sqrt{3}}$ , Find A and B

**19.** Find the median of the following distribution

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	Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70
	Frequency	4	4	8	10	12	8	4
20.	<b>D.</b> If the mean of the following distribution is 6 , find the value of p							
	x	2	4	6	10	P+5		
	f	3	2	3	1	2		

# SECTION D(Q. No. 21 -31 each of 4 marks)

- **21.** Prove that  $\sqrt{3}$  is irrational.
- 22 Find all the zeroes of the polynomial  $2x^4 3x^3 3x^2 + 6x 2$  if two of its zeroes are  $\sqrt{2}$  and  $-\sqrt{2}$
- **23.** 8 men and 12 boys can finish a piece of work in 10 days while 6 men and 8 boys can finish it in 14 days. Find the time taken by one man and by one boy alone to finish the Work. What value is depicted?
- 24. If tanA = 2 Evaluate secAsinA +  $tan^{2}A cosecA$

The marks obtained by 30 students of class X of certain school in Mathematics paper Consisting of 100 marks are presented in the table below. Find the mode of this data

Class	10-25	25-40	40-55	55-70	70-85	85-100
Interval						
No. of	2	3	7	6	6	6
students						

- 26. In an equilateral triangle ABC, D is a point on side BC such that BD = 1/3 BCProve that  $9 AD^2 = 7 AB^2$
- 27 Prove that the ratios of the areas of two similar triangles is equal to the square of the ratio of their corresponding sides.
- **28.** Divide :  $2t^4 + 3t^3 2t^2 9t 12$  by  $t^2 3$
- 29.
   The median of the following data is 525
   Find the values of x and y if the total

   Frequency is 100
   Class
   0 100 200 300 400 500 600 700 800

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Interval	100	200	300	400	500	600	700	800	900	1000
Frequency	2	5	х	12	17	20	Y	9	7	4

**30.** Prove that

 $\frac{\cot A - \cos A}{\cot A + \cos A} = \frac{\csc A - 1}{\csc A + 1}$ 

**31.** For a morning walk three persons step off together. There steps measure 80cm, 85cm, and 90cm respectively. What is the minimum distance each should walk so that they can cover the distance in complete steps?



# Model Paper -1 (2016-17) SUMMATIVE ASSESSMENT - 1 CLASS X Marking Scheme

General Instructions:

1. The Marking Scheme provides general guidelines to reduce subjectivity and maintain uniformity. The answers given in the marking scheme are the best suggested answers.

2. Marking be done as per the instructions provided in the marking scheme. (It should not be done according to one's own interpretation or any other consideration). Marking Scheme be strictly adhered to and religiously followed.

3. Alternative methods be accepted. Proportional marks be awarded.

4. If a question is attempted twice and the candidate has not crossed any answer, only first attempt be evaluated and 'EXTRA' written with second attempt.

5. In case where no answers are given or answers are found wrong in this Marking Scheme, correct answers may be found and used for evaluation purpose.

#### SECTION - A

1) The given polynomial is  $P(x) = X^2 - 2X - 8$ Let P(x)=0  $X^2 - 2X - 8=0$   $X^2 - 4X + 2X - 8=0$  (By splitting middle term) X(X-4)+2(X-4)=0(X-4)(X+2)=0

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A

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(1marks)

3) Let ABC be any right triangle right angled at B. Now  $\sin A = \frac{3}{4}$ , but  $\sin A = \frac{BC}{AC}$  $\therefore \frac{BC}{AC} = \frac{3}{4}$ Let BC = 3K, AC = 4K, By P.G.T  $AC^2 = AB^2 + BC^2$ (4K)<sup>2</sup> = AB<sup>2</sup> + (3K)<sup>2</sup> В  $16K^2 = AB^2 + 9K^2$  $\Rightarrow AB = \sqrt{7} K$ .  $\therefore \cos A = \frac{AB}{AC} = \frac{\sqrt{7}K}{4K} = \frac{\sqrt{7}}{4K}$ 4. The class mark of  $15.5 - 20.5 = \frac{15.5 + 20.5}{2} = 18$ (1)





5. 
$$3x^2+5x+2$$
  
 $\alpha+\beta=\frac{-5}{3}=\frac{-b}{a}$   $(\frac{1}{2}marks)$   
 $\alpha\beta=\frac{2}{3}=\frac{c}{a}$   $(\frac{1}{2}marks)$   
 $\frac{1}{\alpha}+\frac{1}{\beta}=\frac{\alpha+\beta}{\alpha\beta}=\frac{-5}{2}$   $(1marks)$ 

6. Here  $a_1 = 2$ ,  $b_1 = 3$ ,  $c_1 = -7$ 

 $a_2 = a-b, b_2 = a+b, c_2 = -(3a+b-2)$ 

for infinitely many solutions,

 $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2},$   $\frac{2}{a-b} = \frac{3}{a+b} = \frac{-7}{-(3a+b-2)} \text{ (1marks)}$ I II III From I and III we have  $a = 9b-4 \qquad \dots \dots \dots \dots (1)$ from II and III  $a-2b = 3 \qquad \dots \dots \dots \dots \dots (2)$ by substituting the value of a from (1) in (2) 9b-4-2b = 3  $\Rightarrow b = 1$ Putting this value in (1) we get a = 5. (1 marks)

1. Area of 
$$\Delta ABC$$
/area of  $\Delta DEF = \frac{BC^2}{EF^2}$  (As  $\Delta ABC \sim \Delta DEF$ ) (1marks)

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 $(90^{\circ}-4A) = (A-20^{\circ})$ 

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$$5A = 110^{0}$$

 $A=22^{0}$ 

9. Less than type cumulative frequency table is

Marks	F	c.f.
Less than 5	4	4
Less than 10	7	11
Less than 15	12	23
Less than 20	18	41
Less than 25	6	47
Less than 30	3	50

(2 marks)

(1 marks)

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10. Cos 48° - sin 42°

Cos (90	- 42)°	- sin 42°
Sin 42°	- sin 42	° = 0

(1 marks) (1 marks)

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## SECTION-C

11. HCF = 9, $1^{st}$ number = 306, $2^{nd}$ number = 657	
We know that	
HCFxLCM =Product of two numbers (1)	marks)
9  x LCM = 306  x  657	
$LCM = \frac{306x657}{9}$	
LCM = $22338.$ (2n)	narks)
12. $P(x) = 6x^2 - 7x - 3$	
$6x^{2} - 9x + 2x - 3$ 3x(2x-3) + 1(2x-3) (2x - 3)(3x + 1) x = 3/2, x = -1/3 Now sum of zeroes $= \frac{3}{2} + (\frac{-1}{3}) = \frac{7}{6} = \frac{-b}{a}$ product of zeroes $= \frac{3}{2}x(\frac{-1}{3}) = \frac{-1}{2} = \frac{c}{a}$ (2 m)	marks) marks)
13. $3x - 5y = 4$ (i) 9x - 2y = 7(ii) Multiply eq. (i) by 3 9x - 15y = 12(iii) Subtracting (ii) from (iii) 9x - 15y = 12 9x - 2y = 7 - + - -13y = 5 (i) - + -	1 marks)

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 $= \sin^{2}A + \csc^{2}A + 2\sin A \csc A + \cos^{2}A + \sec^{2}A + 2\cos A \sec A$ (1mark)  $= \sin^{2}A + \csc^{2}A + 2 + \cos^{2}A + \sec^{2}A + 2$ (1mark)  $= \sin^{2}A + \cos^{2}A + \csc^{2}A + \sec^{2}A + 4$ (1mark)  $= 1 + 1 + \cot^{2}A + 1 + \tan^{2}A + 4$ (1mark)  $= 7 + \tan^{2}A + \cot^{2}A = RHS$ 

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17. 
$$3\cos(90-22)$$
.  $\cos(22 - \frac{1}{2}\tan 43$ .  $\tan(90-43)\tan(20-12)$ .  $\tan(90-12)$ .  $\tan(60-12)$ .  $\tan(60-$ 

$$3\sin 22.\csc 22 - \frac{1}{2}(\tan 43.\cot 43).(\tan 12.\cot 12).\tan 60$$
 (1marks)

$$3 \times 1 - \frac{1}{2} \times 1 \times 1 \times \sqrt{3}$$
  
$$3 - \frac{\sqrt{3}}{2} = \frac{6 - \sqrt{3}}{2}$$
 (1marks)

18. Tan(A + B) =  $\sqrt{3}$ 

1

Tan (A + B) = tan60 A + B = 60 .....(i) (1marks) Tan(A - B) =  $\frac{1}{\sqrt{3}}$ Tan(A - B) = tan 30 A - B = 30 .....(ii) (1marks) Adding (i) & (ii) 2A = 90 A = 45 Putting value of A in (i) Putting the value of A in (i) we get 45 + B = 60 B = 15 (1marks)

19. cumulative frequency table is

Class	F	c.f.
0-10	4	4
10-20	4	8
20-30	8	16
30-40	10	26

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(1marks)

40-50	12	38
50-60	8	46
60-70	4	50

 $N = \frac{50}{2} = 25, f = 10, cf = 16,$ 

And median class is 30-40

Now use the formula to find the median.

20.

X	F	fx
2	3	6
4	2	8
6	3	18
10	1	10
P+5	2	2p+10

$$\sum \frac{fx}{f}$$
=mean

So mean 
$$=\frac{52+2p}{11}=6$$
  
2p=66-52  
P=7

#### SECTION – D

21. Let us assume that  $\sqrt{3}$  is rational.

Then, there exit co-prime positive integers a and b such that  $\sqrt{3} = a/b, b \neq 0$   $a = \sqrt{3b}$ squaring both sides  $a^2 = 3b^2$  ......(i) (1marks) 3divides  $a^2$ 3 divides a a = 3c, (where c is any integer) a = 3c in (i)  $9c^2 = 3b^2$   $3c^2 = b^2$ It means 3 divide  $b^2$  and 3 divides b. (1marks)

3 is common factor of both a and b which is contradiction.

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25 Class Interval	Number of Students	
10-25	2	
25-40	3	
40-55	7	
55-70	6	
70-85	6	
85-100	6	

Since highest frequency is 7

Therefore modal class is 40-55

Mode = I + ( $\frac{f_1 - f_0}{2f_1 - f_0 - f_2}$ ) x h	
$= 40 + \left( \frac{7-3}{14-3-6} \right) \times 15$	
$= 40 + (\frac{4}{5}) \times 15$	
= 40 + 12	
= 52.	

26. In an equilateral triangle ABC, D is a point on side BC such that

 BD= 1/3 BC
 A

 To Prove:- 9AD<sup>2</sup>=7AB<sup>2</sup>
 Image: Construction: Draw AP ⊥ BC

 Construction: Draw AP ⊥ BC
 Image: CBSE Sample APB,

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(2marks)

(2marks)

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$AB^2 = AP^2 + BP^2 -(1)$				
(By Pythagoras theorem)	B D P C			
In right triangle APD,				
$AD^2 = AP^2 + DP^2 - (2)$				
(By Pythagoras theorem)				
From (2)				
$AP^2 = AD^2 - DP^2 - (3)$				
From (3) , putting the value of AP in (1) , we get				
$AB^2 = AD^2 - DP^2 + BP^2$				
$= AD^2 - DP^2 + (BC/2)^2$				
In right triangle APB and APC,				
Hyp. AB= Hyp. AC				
AP = AP (Common side)	(2marks)			
Therefore △APB ≡△ABC				
(RHS congruence criterion)				
Therefore BP = CP (CPCT)				
Therefore, BP = CP = BC/2				
$AB^2 = AD^2 - DP^2 + BC^2/4$				
$=AD^{2}-(BP-BD)^{2}+BC^{2}/4$				
$= AD^2 - (BP^2 + BD^2 - 2BP.BD) + BC^2/4$				
$= AD^2 - BP^2 - BD^2 + 2BP \cdot BD + BC^2 / 4$				

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D

А

 $= AD^{2} - (BC/2)^{2} - (BC/3)^{2} + 2(BC/2)(BC/3) + BC^{2}/4$ Because BP=BC/2 and BD=BC/3  $= AD^{2} - BC^{2}/4 - BC^{2}/9 + BC^{2}/3 + BC^{2}/4$  $= AD^{2} + 2/9 BC^{2}$  $= AD^{2} + 2/9 AB^{2}$ Because AB=BC  $\implies AB^{2}(1-2/9) = AD^{2}$  $\implies 7/9AB^{2} = AD^{2}$  (2marks)

27) Given two Triangles  $\Delta ABC$  and  $\Delta DEF$  such that  $\Delta ABC$  is similar to  $\Delta DEF$ 

To prove

ar∆ ABC	$= AB^2$	$= BC^2$	=	AC <sup>2</sup>
ar ADEE	DF <sup>2</sup>	FF <sup>2</sup>	-	DF <sup>2</sup>

Construction Draw AL  $\perp$  BC and DM  $\perp$  EF



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Е

Μ

F

Proof: Since, similar triangles are equiangular and their corresponding sides are proportional. Therefore,

 $\Delta ABC$  is similar to  $\Delta DEF$ 

 $\bot A = \bot D, \bot B = \bot E, \bot C = \bot F$ 

And AB = BC = AC -(1) <u>DE EF DF</u>

Thus, in  $\triangle$ ALB and  $\triangle$ DME

∟ALB	B = ∟ DME	(each 90°)
∟B	= ∟E	(from eq.(1)(2marks)

By AA similarity, ALB is similar ΔDME

AL	= AB	-(2)
DM	DE	

From eq. (1) and (2), we get

AB	=	BC	=	AC	=	AL	
			_				-
DE		EF		DF		DM	-(3)

Now,

ar ( $\Delta$ ABC) =  $\frac{1}{2}$  (BC x AL) ar ( $\Delta$ DEF)  $\frac{1}{2}$  (EF x DM)

[because Area of triangle= ½ x Base x Altitude]

 $ar(\Delta ABC) = (BC \times AL)$ 

 $\Rightarrow$ 

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(1)

3t<sup>3</sup>

- 9t

4t<sup>2</sup> -12

+





#### 29).

Class	F	Cf
0-100	2	2
100-200	5	7
200-300	X	7+x
300-400	12	19+x
400-500	17	36+x
500-600	20	56+x
600-700	Υ	56+x+y
700-800	9	65+x+y
800-900	7	72+x+y
900-1000	4	76+x+y

f=20,cf=36+x,total of frequency given is 100 (2marks)

And median class is 500-600

Use the median formula to find x and y

X=9 and y=15

30) LHS=

 $\frac{\cot A - \cos A}{\cot A + \cos A} = \frac{\frac{\cos A}{\sin A} - \cos A}{\frac{\cos A}{\sin A} + \cos A}$ 

Taking cos A common from numerator and denominator

 $\frac{\cos A(1-\sin A)}{\cos A(1+\sin A)}$ (2marks)

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(2marks)



$$\frac{(1 - sinA)}{(1 + sinA)}$$

Dividing numerator and denominator by sinA, we get

$\frac{\operatorname{cosec} A - 1}{\operatorname{BHS}}$ = BHS	(2marks)
$\operatorname{cosec} A + 1$	(211101135)
31) Minimum distance – I CM of 80 85 $k$ 90	
51) Minimum distance – LCW 0180,85& 90	

80 = 2 X 2 X 2 X 2 X 5	(1mark)
$85 = 5 \times 17$	(1mark)
90= 2 X 3 X 3 X5	(1mark)
LCM= 2 X 2 X 2 X 2 X 3 X 3 X 5 X 17 = 12240	(1mark)

Prepared By Group No.-1:

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