A NOTE

Hey! Hope you will the paper and questions. Most of the questions are available on the internet and some are even higher order thinking skills based ones and some being multidisciplinary evaluative questions. The objective of this paper is not to maximise marks but learnings. The reason it has been published so early is that now is the time for you to practice harder questions and improve critical thinking and learning.

You may not crack all the questions in one go but once you solve all the questions, I am sure you would be one step closer to acing the board exams. Practice this paper in under 3 hours and in case you want me to evaluate your paper, drop me an email in the undersigned and you can also reach out to me for the solutions and further guidance/ question papers if needed.

PLEASE NOTE THAT I AM NOT RUNNING ANY TUITION OR ACADEMY CLASSES AND THE HELP (ZERO CHARGE) WOULD BE ONLY TO AID IN YOUR DEVELOPMENT, NO OTHER MOTIVE **Email: iammyself9310@gmail.com** Telegram: @Methinker

Class- X Session- 2022-23 Subject- Mathematics (Standard) Question Paper

Time Allowed : 3 hrs

Maximum Marks: 80

General Instructions

- This Question Paper has 5 Sections A-E.
- Section A has 20 MCQs carrying 01 mark each.
- Section B has 5 questions carrying 02 marks each.
- Section C has 6 questions carrying 03 marks each.
- Section D has 4 questions carrying 05 marks each.
- Section E has 3 case based integrated units of assessment (04 marks each) with sub- parts of the values of 1, 1 and 2 marks each respectively.
- All Questions are compulsory.
- Draw neat figures wherever required. Take $\pi = 22/7$ wherever required if not stated.

SECTION A (1 Marks Each)

1	Which of the following digits is ruled out in the units place of $12^{n} + 1$ for every positive integer n?							
	(a) 1	(b) 3	(c) 5	(d) 7				
2	Polynomial x ² - 6x + 25 has zeroes β and α . Equation 2x ² - px + q = 0 has roots $\sqrt{\alpha}$ and $\sqrt{\beta}$.							
	What is the value of	of p?						
	(a) 6	(b) 8	(c) -16	(d) 13				
3	One equation of a pair of dependent linear equations is $-5x + 7y = 2$. The second equation can be :							
	(a) $10x + 14y = -4$	(b) 10x = 4 - 14y	(c) $14y + 4 = 10$	$0x (a) \ 10x - 14y = -4$				
4	Let m and n be positive integers, If $x^2 + mx + 2n$ and $x^2 + 2nx + m$ are perfect squares, then one of the value of $m + n$ is :							
	(a) 8	(b) 6	(c) 5	(d) 7				
5	If centroid of equilateral \triangle ABC is T (2,3) and one of its vertices is A (-1, 2), find its median's length.							
	(a) $\sqrt{10}$	(b) $\frac{\sqrt{40}}{3}$	$(c) \frac{3\sqrt{5}}{4}$	(d) $\sqrt{\frac{45}{2}}$				



12	In the figure, PA is a tangent from an external point P to a circle with centre O and AB as 1 diameter. If $\angle POB = 115^{\circ}$ then find $\angle APO$.							
	A = A = A = A = A = A = A = A = A = A =							
				\land				
			P					
				В				
	(a) 15 ⁰	(b) 20 ⁰		(c) 25 ⁰	(d) 30°			
13	The sum of rad	ii of the two circ	eles is 91 cr	n and the differen	ce between their circumference	e 1		
	is 44 cm. What (a) 56 cm	is the radius (in $(b) 42$	n cm) of the	e larger circle?	(d) 49 cm			
		(0) 42 ((c) 05 cm	(u) +9 cm			
14	A solid right cit	rcular cone is cu d the ratio of the	t into two p volume of	parts at the middle	of its height by a plane paralle to the whole cone	el 1		
	(a) 1:2	(b) 1:4		(c) 1:8	(d) 2:5			
15	For the followi	ng distribution	the upper l	imit of modal clas	ss is:	1		
10	Class	1-4	6-9	11-14	16-19 21-24			
	Frequency	10	15	12	20 9			
	(a) 16	(b) 20	(b) 20 (e		(d) 25			
16	The area of the	e largest circle th	nat can be	inscribed in a rect	angle of length 8cm and widt	:h 1		
	$(a) 36\pi \text{ cm}^2$	(b) 18π	$c cm^2$	(c) $12\pi \text{ cm}^2$	(d) 9π cm ²			
17	If the difference	e of Mode and	Median of	a data is 24, ther	the difference of median an	d 1		
	mean is	(b) 12		(c) 24	(d) 36			
	(a) 0	(0) 12		(0) 24	(d) 50			
18	If two dice are to on them is a pr	thrown together,	, the probab	bility that the differ	rence of the numbers appearin	g 1		
	$(a)\frac{2}{a}$	(b) $\frac{4}{2}$		$(c)\frac{5}{12}$	$(d)\frac{17}{24}$			
19	In the given figure, D is the mid-point of BC, then the value of $\frac{\tan x}{\tan(x+y)}$ is							
	A							
	X° Y°							
			c	В				
	(a) 2	(b) 0.5		D (c) 0.333 (d) 0.25				
20	The points (2,	5) and (6, 3) ar	e two end	points of a diago	nal of a rectangle. If the othe	er 1		
	diagonal has th $(a) - 5$	e equation $y = 3$	3x + c, then	(c) -7	(d) -8			
	(a) - 5	(0)-0		(\mathbf{c}) - \mathbf{c}	(u) -0			



	SECTION C (3 Marks Each)						
26	Prove that $\frac{\sqrt{32}}{\sqrt{50}+7}$ is irrational if it is given that $\sqrt{2}$, $\sqrt{3}$ and $\sqrt{5}$ are all irrational.	3					
27	If α and β are the zeros of the polynomial $x^2 - px + r$ and $\frac{\alpha}{2}$ and 2β are roots of the quadratic equation $x^2 - qx + r = 0$, find the zeroes of the polynomial $(x^3 - r)$.	3					
28	A circle with a diameter of BC is drawn on the triangle ABC, intersecting AB and AC at points P and Q, respectively. Find the length of BQ in cm using similarity of triangles if the lengths of AB, AC, and CP are 30 cm, 25 cm, and 20 cm, respectively.	3					
29	Let $a_1, a_2,, a_{52}$ be the monthly instalments (in INR) that need to be paid by Anupama to Rakhi Dave in order to repay the loan taken by her from Rakhi and the same are in AP. Instalment a_i signifies the instalment to be paid in month <i>i</i> . Suppose, their (instalments) arithmetic mean A is INR 7 short than the arithmetic mean B of $a_3, a_4,, a_{52}$ (i.e. A < B). If instalment paid in month 26 is INR 180, find value of total loan to be repaid by Anupama.	3					
30	P, Q, and R are points on a circle with O as its centre in the diagram below. The circle's tangent crosses secant PQ at T. Find the $\angle POQ$ if $\angle QRT = 55^{\circ}$ and $\angle QTR = 25^{\circ}$.	3					
31	A bowl contain $(x^2 + 3)$ black and 8 red balls. After $(x + 1)$ more black balls are added to the bowl, a ball is drawn at random. If the probability of not drawing a black ball is $\frac{1}{3}$, find the total number of balls in the bowl. OR Babli participated in a lucky draw that had certain number of tickets with tickets numbers in an AP (every ticket has a unique ticket number). The first ticket sold bore the number 22, second one bore 26 and the last ticket sold bore ticket number 1098. Each individual can buy only one ticket. Babli bought ticket number 410. The rule for winning lucky draw is as follows: 4 ticket numbers would be randomly drawn and if the sum of the 4 ticket numbers is between 1000 and 2000, the ticket holders of these 4 ticket numbers thus drawn is not between 1000 and 2000, then everyone except the 4 drawn ticket number holders wins the lottery. If it is already given that the first 3 ticket numbers drawn are 30, 322 and 410, what is the probability that Babli wins the lottery?	3					

	SECTION D (5 Marks Each)									
32	The distribution below gives the marks of 100 students of a class (out of 40).5									
	Marks	More than 0	More than 5	More than	More than	More than 20	More than 25	More than	More than	
	Cumulative Frequency	100	94	92	$y^2 + 4$	70	10	5	3	
	The most common and repeated marks appear to be 22.25 marks. Find the median marks.									
33	Prove that $y = \tan^2 x$ by solving the following equation for y:5 $\frac{3sinx - 4sin^3 x}{4cos^3 x - 3cosx} = \frac{3tanx - tan^3 x}{1 - 3y}$ 5							5		
					OR					
	Find the value of $\frac{\sec^2\theta(2+\tan^2\theta+\cot^2\theta)\div(\sin^2\theta-\tan^2\theta)}{(\csc^2\theta+\sec^2\theta)(1+\cot^2\theta)^2}$									
34	The kingdom of Wakanda has two secluded cities – Rudyarda and Azania. Till now, no business firms exist in the two cities. The total population of Rudyarda is 'a' and total population of Azania is 'b'. The Rule T'Challa (Black Panther) understood that the profitability of the firms situating in either cities would depend on both the population in that city, and the number of firms in that city. A total of $\{\frac{4ab}{a+b}\}$ have applied to be given license to start business activity in either of the cities (i.e. one firm can establish business in only one city – Rudyarda or Azania). Profit of a firm in Rudyarda is given by $\{2a^2 - (a - b)x\}$ where x is the number of firms that will be in Rudyarda. Profit of a firm in Azania is given by $\{2b^2 + (a + b)y\}$ where y is the number of firms should Black Panther give license to start business in Azania so that any firm in Rudyarda would earn same amount of profit as a firm in Azania?								5	
35	A golf ball has radius of r cm. It has 175 hemispheres carved from its surface such that the total volume of the ball is 566 π cm ³ . If the diameter of a hemisphere is 2cm, calculate the outer surface area of the ball.						5			

SECTION E (CASE STUDY)

36 There is a battle going on between the city of Westeros, queen Daenerys Targaryen and the Night King of the dead. Queen Daenerys has unleashed her 3 dragons : Drogon, Rhaegal and Viserion to fight the forces of Westeros and the Night King. Daenerys knows from previous experience that the dragons would be safer if they fight from the ground as it would provide localisation and may not be under direct target of Night King or the crossbow of Westeros who and which is capable of injuring the three dragons. In the battlefield, which can be thought of as a cartesian plane to locate various elements,

In the battlefield, which can be thought of as a cartesian plane to locate various elements, the crossbow of Westeros is at A(-4,0) and the Night King is fighting from B(4,0).

- (i) What is the ratio in which the line $\{x 3 = 0\}$ (this line is where Daenerys is fighting 1 in the field) divides the line segment joining the positions of crossbow (-4,0) and the Night King (4,0)
- (ii) Based on the abilities of the three dragons, range of the crossbow and vision of the Night King, the advisors of Daenerys Targaryen deduced that if a dragon is always at a point such that the sum of distance of the dragon from the crossbow (-4,0) and the Night King (4,0) is equal to 10 units, the dragon would be completely unharmed in the battle. Assuming that the positions of crossbow (-4,0) and Night King (4,0) are fixed, find the equation of set of points P(x, y), along which Daenerys should position her dragons so as to ensure that they are unharmed from the crossbow and Night King.
- (iii) What is the distance between a soldier (5,4) and the crossbow? This is to check 1 whether the soldier will be able to reach the crossbow in time for any attack orders.





 38 Penny has been working in the cheesecake factory and the wage earned by her is just not enough. She has been good in art and craft and started making flower hair barrettes – branded under the name 'Penny Blossom'. Initially she made one for herself, impressed by which, all waitresses at the cheese cake factory wanted one. Then she went on to partner with a lady who runs cards and home-made jewellery shop and sold some barrettes to her, carning Rs. 15000 in week 1. She made a profit of Rs. 3.75 per penny blossom and set the selling price of Rs.150. Next week, She further asked her friend Sheldon to advise her whether it could be turned into a viable business to which, he evaluated the operational capabilities and showed concerns. Nevertheless, he supported her and advised to speed up production to increase sales. Leonard, her brother helped in creating digital space for her through designing website for her business. Few hours since the website launch and they received week long order from east Rutherford LGBTQIA society for their annual event wherein they would use the penny blossoms as accessories. However, Penny charged a price more than Rs.150 i.e. Rs. x. For each 4% rise in the selling price she sold 3 less articles to the east Rutherford LGBTQIA society of East Rutherford and made same profit as the week before i.e. Rs. 15000 (Comprising of selling price x and quantity to be calculated after adjusting for each 4% rise in the selling price week (in terms of x) (i) Write the expression for quantity of penny blossoms sold this week (in terms of x) (ii) What is the selling price "x" per barrette charged by Penny from the LGBTQIA society. (iii) Find the profit percentage earned by Penny this week. 			
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		(iii) I had the profit percentage carried by I entry this week.	-