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Maths FULL Portion Test 19/03/2023 CBSE Science and Maths : Mathematics

0.1	
Q. 1	If one root of the equation $(k-1)x^2 - 10x + 3 = 0$ is the reciprocal of the other, then the value of k is :
\frown 1	
\bigcirc 4	
\bigcirc 3	
\bigcirc 1	
0 2	
Q. 2	LCM of 3, 5 and 15 is
45	
30	
O 15	
0 60	
Q. 3	If one of the zeroes of the quadratic polynomial $ig(k-1ig)x^2+kx+1$ is -3, then the value of k is
$\bigcirc \frac{4}{3}$	
$\bigcirc -\frac{4}{3}$	
$\bigcirc \frac{2}{3}$	
$\bigcirc -\frac{2}{3}$	
3	
Q. 4	A quadratic polynomial whose zeroes are -3 and 4, is
$\bigcirc x^2 -$	x+12
$\bigcirc x^2 +$	x+12
$\bigcirc \frac{x^2}{2} =$	$rac{x}{2}-6$
\bigcirc $2x^2$ -	+ 2x - 24
Q. 5	If HCF(16,y) = 8 and LCM(16,y) = 48, then the value of y is

24 16 8 48 Which of the following equations has the sum of its roots as 3? $2x^2 - 3x + 6 = 0$ $\bigcirc \quad -x^2+3x-3=0$





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Q. 12	A wire bent in the form of an equilateral triangle, encloses and area of $121\sqrt{3}$ cm ² . If the wire is bent in the form of a circle, the diameter of the circle will be:
	[Take π = 22/7]
21 cm	
○ 10.5 cl	n
○ 28 cm	
) 14 cm	
Q. 13	When a die is rolled, the probability of getting an odd number, or a number less than 4 is:

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○ 1/3	
○ 2/3	
5/6	
○ 1	
Q. 14	The sum of all 2 digit numbers, which yield a remainder of 1 when divided by 7 is:
735	
○ 741	
○ 763	
· 787	
Q. 15	The first term of an A.P. is 5, the last term is 45, and the sum is 400. The number of terms and common
	difference is, respectively:
\bigcirc 16, $\frac{8}{3}$	
0 15. 4	
$\bigcirc 14 \frac{5}{2}$	
Q. 16	The 'k'th term of the A.P. 3, 10, 17, is 84 more than its 13th term. The value of 'k' is:
○ 22	
<u> </u>	
<u> </u>	
_ 25	
0.17	
Q. 17	The n ^{er} term of an A.P. is (7 - 3n). The common difference of the A.P. is:
○ 3	
○ -3	
○ 7	
−7	

Q. 18 The following pair of linear equations are to be solved by "elimination by equating coefficients".
(1) x + y = 5
(2) 2x - 3y = 4
Which of the following are the correct ways to proceed?
Multiply equation (1) by 3 and add the two equations
Multiply equation (1) by 3 and subtract (1) from (2)
Multiply equation (2) by 5 and add the two equations

Multiply equation (1) by 2 and add the two equations

Q. 19 In triangles ABC and DEF, $\angle B = \angle E$, $\angle F = \angle C$ and AB = 3DE. Then, the two triangles are:
 congruent but not similar
similar but not congruent
 neither congruent nor similar
 congruent and similar
Q. 20 In a rectangle, Length = 8 cm, Breadth = 6 cm. Then its diagonal =
○ 9 cm
○ 14 cm
○ 10 cm
○ 12 cm
Q. 21 Given that $\sin \alpha = \frac{1}{2}$ and $\sec \beta = \frac{2}{\sqrt{3}}$, then the value of $(\alpha + \beta) =$
○ 0°
○ 30°
○ 60°
○ 90°
Q. 22 If sec θ .sin θ = 0, then θ =
○ 0°
○ 30°
○ 60°
○ 90°
Q. 23 $(1 + an heta + sec heta)(1 + cot heta - \cos ec heta) =$
○ 0
\bigcirc 1
○ 2
○ -1



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) 12 n	n			
○ 6√2	! m			
○ 6√3	m			
0 543) TT)			
0.26	A towar 20	ne biek eest	a a abadawi	$10\sqrt{2}$ main length. The supple of eleventies of the sum frame the time of the
Q. 20	shadow is:	m nigh casi	s a shadow i	lovs miniength. The drigle of elevation of the sun from the tip of the
⊖ 30°				
Q. 27	In the follo	wing table, 'x	and 'w' are,	respectively,
	Class Interval	Frequency	Cumulative Frequency	
	0-10	5	5	
	10-20	7	w	
	20-30	x	18	
	30-40	5	Z 20	
	40-30	у у		
. 10 -				
○ 12 c	ind 30			
5 a	nd 10			
6 a	nd 12			
Q. 28	A student p	prepared gro	aphs as show	vn below to solve a pair of linear equations in two variables. Equation 'B'
	IS:			
	2			
	1			
	0			6 7 8 9 1 0
	-1			
	-2			



-3

Q. 29	AOBC is a rectangle whose three vertices are vertices A (0, 3), O (0, 0) and B (5, 0). The length of its diagonal is:
○ 3	
○ 4	
○ 5	
_ √34	
Q. 30	P is a point on the x-axis with an abscissa of -12 and Q is a point on the y-axis with an ordinate of -16. M is a point on PQ such that PM : MQ = 4 : 1. Then the measure of PM is:
) 16 ur	nits
🔵 20 u	nits
) 12 ur	nits
🔵 8 un	its
Q. 31	A circle has its centre at the origin and a point P(5, 0) lies on it. Which of the following points lie inside the circle?
(4, 3)
(-4,	9/2)
(3, 3)
(5/2	, -4)
Q. 32	The point on x-axis which is equidistant from (2, -5) and (-2, 9) is
(-7	0)
\bigcirc $('')$	
(7, 0)
(7, 0 (5, 0)
(7, 0 (5, 0 (-5,)) 0)
 ○ (7, 0 ○ (5, 0 ○ (-5, Q. 33)) 0) The points (1, 1), (- 1, - 1) and (-√3,√3) are
 (7, 0 (5, 0 (-5, Q. 33 verti)) 0) The points (1, 1), (- 1, - 1) and (-√3,√3) are ces of an isosceles triangle



collinear

Q. 34 The following table is constructed to find the mean of a set of grouped data. If assumed mean is taken as 50, the value of J will be:

Class Interval	Xi	f _i	di	f _i d _i
40-44	А	4	J	S
44-48	В	6	К	Т
48-52	С	10	L	U
52-56	D	14	М	V
56-60	E	10	N	W
60-64	F	8	Р	Х

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			64-68	G	6		Q	Y
			68-72	Н	2		R	Z
	\bigcirc	8						
	\bigcirc	-32						
	\bigcirc	-8						
		-						
	\bigcirc	32						
	Q		as:	constructed to analy:	ze a set of group	ea aata. The	e assumea m	iean nas been taken
			Class Interval	Xi	fi	c.f.	di	f _i d _i
			5-7	6	70	70	-6	-420
			7-9	8	120	190	-4	-480
			9-11	10	32	222	-2	-64
			11-13	12	100	322	0	0
			13-15	14	45	367	2	90
			15-17	16	28	395	4	112
			17-19	18	5	400	6	30

 $\boldsymbol{\Sigma} f_i$

8

10

12

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 $\boldsymbol{\Sigma} f_i \boldsymbol{d}_i$