## SSLC EXAM 2022

## **MATHEMATICS**

Target 70+

Improve and Score > 90 %

PART - 2: Two Mark Questions

By Arun S

## "Success is achieved and maintained by those who try and keep trying"

I.	Answer the	Following	Questions:	,	
1.	Find the sum	of first 20 te	erms of $2 + 7 + 12$ .	using the formula	


	48
	467
Find the sum o	of first 15 terms of 3 + 6 + 9 using the formula
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and $2x - y = 7$ by Elimination	)	

Solve $x + y = 8$					
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			715		
	and 2x + y=		nation Met	hod	
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Solve $x + y = a$	4 and $2x - y = 14$ by Elimination Method
Solve x + y = 4	4 and 2x – y = 14 by Elimination Method
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Solve x + y = 4	
Solve x + y = 4	
Solve x + y = 4	

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. Solve by using	quadratic formula $x^2 + 5x + 6 = 0$	
. Solve by using		
Solve by using		

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Solve by using	quadratic formula $x^2 + 7x + 12 = 0$	
Solve by using		

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iminant of $3x^2$ - $5x + 2 = 0$ and write the nature of the roots.
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ind the discri	minant of $2x^2 + x - 4 = 0$ and write the nature of the roots.
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Find, for what va	llue of 'k' the equation $2x^2 + kx + 3 = 0$ has equal roots.	
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Find, for what va	llue of 'k' the equation $2x^2 + kx + 3 = 0$ has equal roots.	

Find the dista	nce between the points (3,1) and (6,2).
Find the dista	nce between the points (3,1) and (6,2).
Find the dista	
Find the dista	nce between the points (3,1) and (6,2).
Find the dista	

	ance between the points (2,3) and (4,1).
Find the dista	nce between the points $(-5,7)$ and $(-1,3)$ .
Find the dista	nce between the points (-5,7) and (-1,3).
Find the dista	nce between the points (-5,7) and (-1,3).
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Find the dista	

Draw a line s	egment $AB = 8cm$ and divide it in the ratio 2:3
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In the figure find	the value of sin P and tan R	
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In the figure find	the value of sin P and tan R	
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a. In the figure find the value of  $\cos\,P$  and  $\csc\,R$ R 5 4 3 b. In the figure find the value of sec  $\boldsymbol{P}$  and cot  $\boldsymbol{R}$ R 3

c. In the figure find the value of $\sin\alpha$ and $\tan\theta$
$ \begin{array}{c} A \\ \alpha \\ 1 \\ B \\ 2 \end{array} $
d. In the figure find the value of $\sin\theta$ and $\tan\alpha$
$\frac{A}{\alpha}$
$B \longrightarrow 0$ $C$

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	e following statement in the form of the pair of linear equations
1. Represent the	
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. Find the mi	dpoint of the line joining the points (4.5) and (6.9)	
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. Find the midpoint of t	·		
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