

# SSLC EXAM 2022

## MATHEMATICS

Target 70+

Improve and Score > 90 %

PART – 3 : Three Mark Questions

By Arun S

**“Success is achieved and maintained by those who try and keep trying”**

The Worksheet consists of 9 sets of questions, Practice all the questions

SET NO.	UNIT	REMARKS	Completed(Y/N)
1.	Circles		
2.	Statistics (Mean, Modem Median)		
3.	Statistics (Ogive)		
4.	Co-ordinate geometry		
5.	Constructions		
6.	Arithmetic Progression		
7.	Introduction to Trigonometry		
8.	Areas related to circles		
9.	Surface areas and volumes		

CHECK SOLUTIONS AT  YouTube “ARUN MATHS HUB”













**SET – 03 : Statistics (Ogive)**

1. Draw “less than type” ogive.

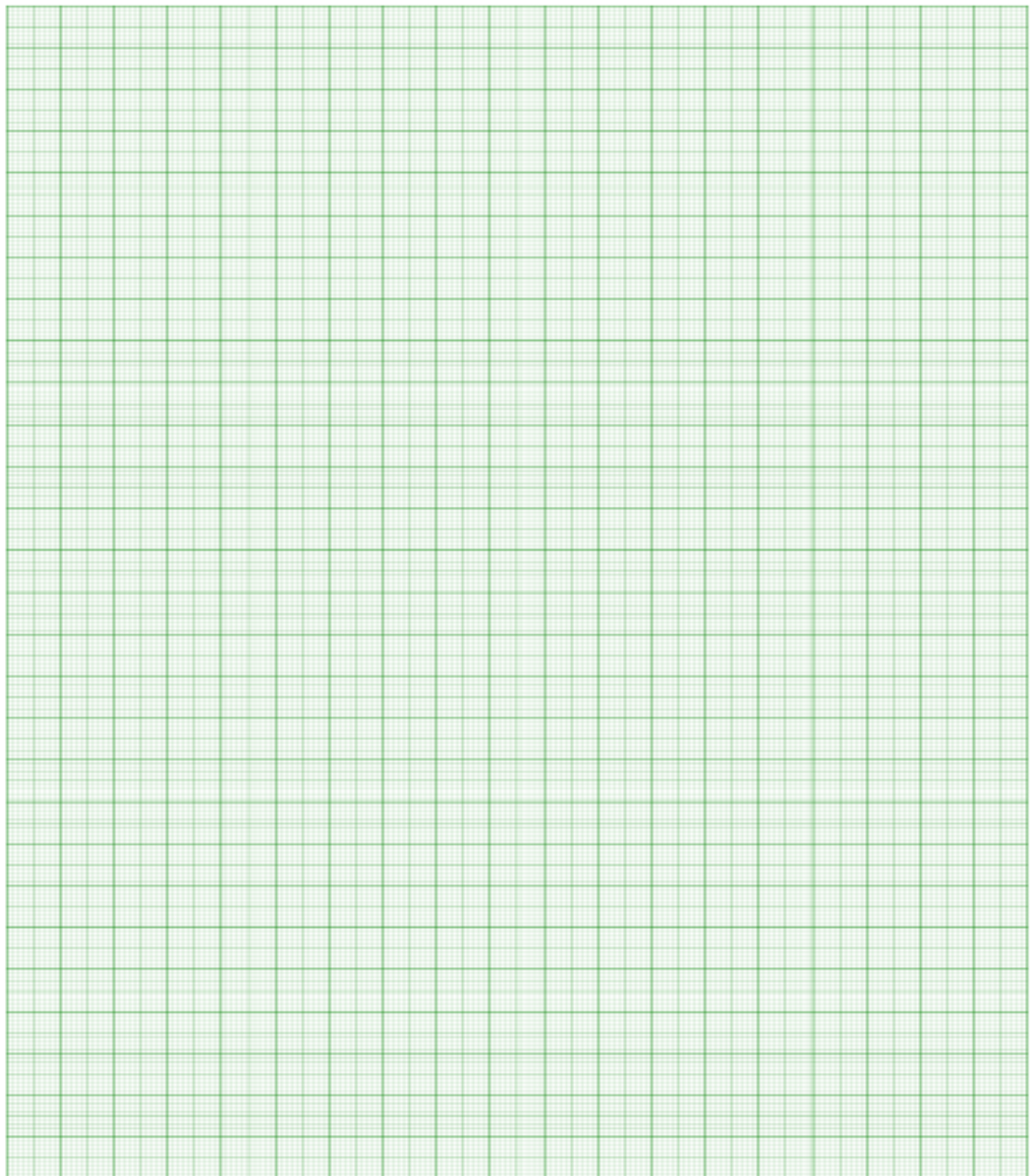
<b>C-I</b>	<b>f</b>
Less than 50	2
Less than 75	4
Less than 100	9
Less than 125	10
Less than 150	11
Less than 175	13
Less than 200	15





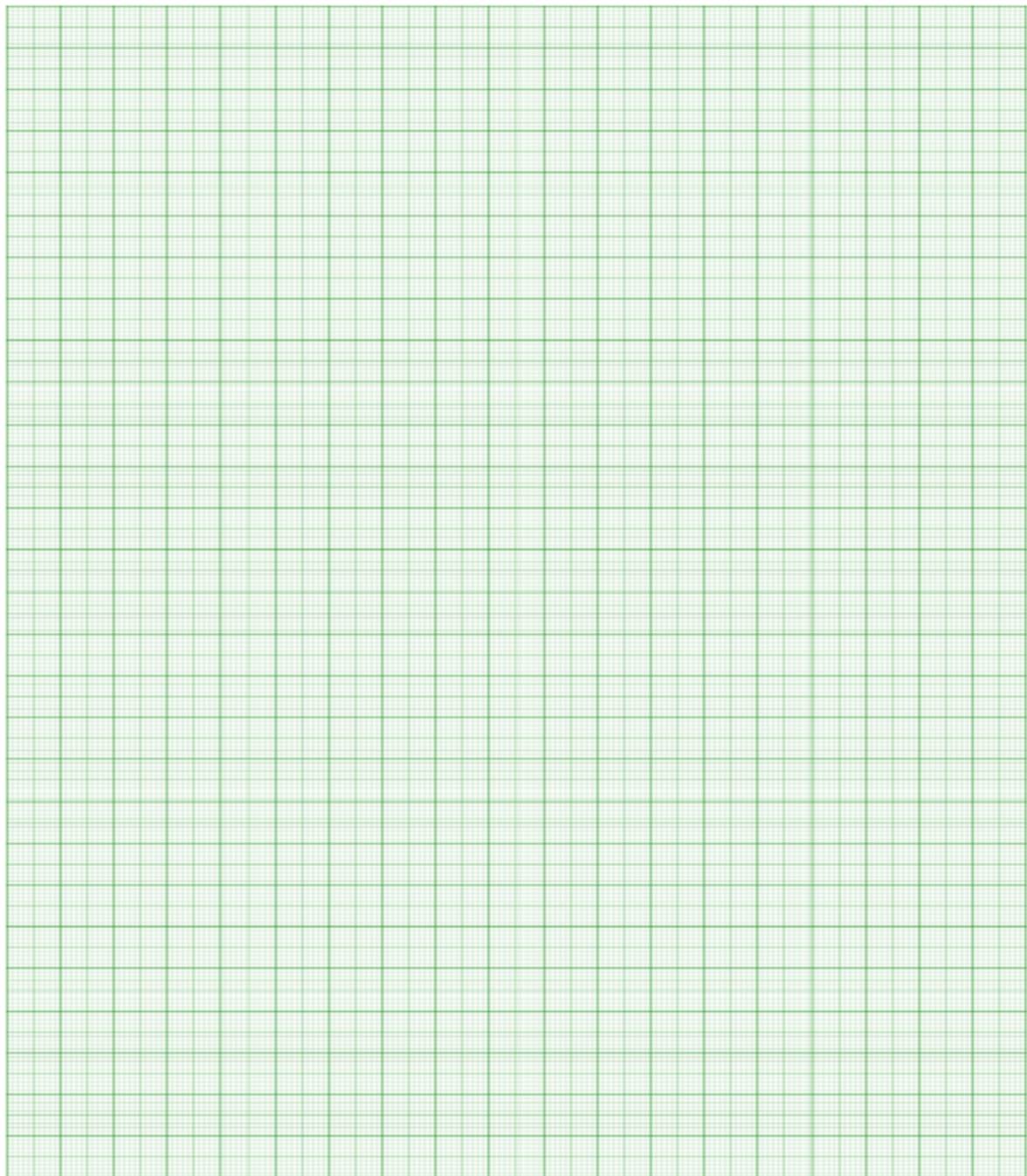
2. Draw “less than type” ogive.

<b>C-I</b>	<b>f</b>
Less than 100	0
Less than 120	8
Less than 140	20
Less than 160	34
Less than 180	44
Less than 200	50



3. Draw “More than type” ogive.

C-I	f
More than or equal to 5	30
More than or equal to 10	28
More than or equal to 15	16
More than or equal to 20	14
More than or equal to 25	10
More than or equal to 30	7
More than or equal to 35	3



(Solve More questions on Ogive from Text book)

























**SET – 05: Constructions**

1. Construct a pair of tangents to a circle of radius 4cm from a point 9cm away from its centre

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2. Construct a pair of tangents to a circle of radius 5 cm from a point 10cm away from its centre.

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3. Draw a pair of tangents to a circle of radius 3cm which are inclined to each other at angle at  $70^\circ$

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4. Draw a pair of tangents to a circle of radius 4cm which are inclined to each other at angle at  $80^\circ$

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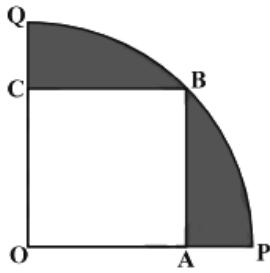








2. In the figure, a square OABC is inscribed in a quadrant OPBQ. If OA = 20 cm, find the area of the shaded region. (Use  $\pi = 3.14$ )



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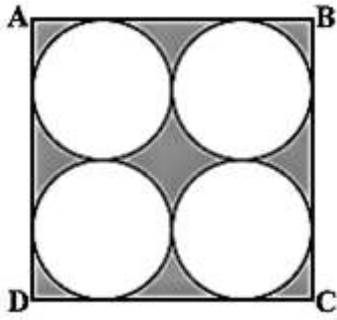
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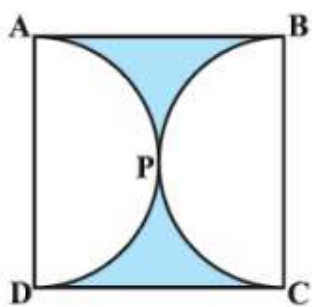


3. In figure, ABCD is a square of side 14cm. With centres A, B, C and D, four circles are drawn such that each circle touch externally two of the remaining three circles. Find the area of the shaded region.



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4. In figure, ABCD is a square of side 14cm. With centres A, B, C and D, four circles are drawn such that each circle touch externally two of the remaining three circles. Find the area of the shaded region.



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