

ூன்று மத்திய மாகாண பிழ்த் திரைப்புகளாம் Department of Education Compartment இருக்கும் ூன்று மத்திய மாகாண கண்ற திணைக்களாம் Department of Education இருக்கும் இருக்கும் ூன்று மத்திய மாகாண ம**்மத்திய∞ மாகாண**™கல்வித்ுதிணைக்களம் ுன் ென்றபடித்திய மாதுண் கல்வித் திணைத்களுக் Department of Education Central Province வேறி இருந்திரும். இன்றபடித்திய மாகும் இண்டுக்கும் இன்றைக்கிய நிருந்திரும். இருந்திரும் இருந்திரும் இருந்திரும். இருந்திரும் இருந்



Grade 07

Year End Examination - 2019

	ம் கோகாவ படு		
12	F	T	•

Mathematics	Time: One Hour

Name /	['] Inc	lex	no.
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Invigilator's Signature

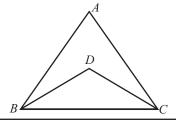
Important	For the u	se of exami	iners only
• The question paper contains 6 pages.	Question number		Marks
• Write your Name / Index number correctly.	Part I	1-20	
• Answer all the questions in part I		1	
• Use the space provided under each question to write the answer and the working.	Part II	2	
• Answer only 6 questions in part II		3	
• Its compulsory to write the correct units and relevant steps.		4	
 Marks are awarded as follows. 		5	
Part I - 2 marks for each correct answer for the		6	
questions from 1-15		7	
Part II - 10 marks for the each question with correct		Total	
answer.			
	Marked by		Code number
	Checked by		Code number

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Part - I

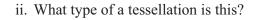
Answer all the questions in the paper itself

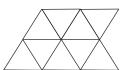
- 01. Find the digital root of 5361.
- 02. Expand : $a^2 b^3$
- 03. Name,
 - i. an abtuse angle.
 - ii. a concave polygon in the diagram.



- 04. Denote the set $A = \{\text{prime numbers from 1 to 10}\}\$ in a Venn diagram .
- 05. Add: Years Months Days

06. i. Name the plane figure used in the tessellation shown in the diagram.





07. Simplify: $3 + 7 \times 5$

08. Underline the instruments which contain parallel edges.

- i. Set square
- ii. Protractor
- iii. Straight edge

09. Simplify: $5 \text{ m} 50 \text{ cm} \times 3$

10. What the diameter of a circle of radius x?

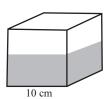
11. Simplify (+4)+(-5) using the number line.



12. 50 l 25 ml of bee honey was divided equally among three people, find the volume of honey received.

13. Find the value of 0.01 x 100.

14. The glass tank shown in the figure in the shape of a cube is half filled with water. Find the volume of water in the container.



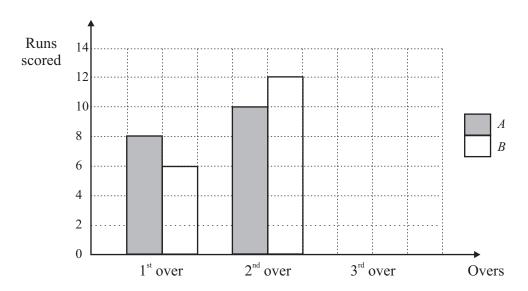
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15. A ribbon of length 12 m is cut into three pieces in the ratio 1:2:3. Find	nd the length of the shortest piece.
16. A solid that satisfies Euler's relation has 5 faces and 8 edges. Find the	e number of vertices using the
Euler's relation.	e number of vertices using the
17. Fill in the blank boxes:	
$0.8 = \frac{\square}{10} = \frac{\square}{100} = \frac{1}{100}\%$	
18. Write all the possible outcomes when an unbiased coin is tossed onc	e.
19. The diagram shows a sketch of a scale diagram of a rectangular land, which is drawn to the scale 1:1000. Find the actual length and breadth of the land.	7.5 cm
	10 cm
20. Measure and write the magnitude of \overrightarrow{PAB} .	/P
A	В
1	

Part - II

Answer six questions only.

- (01) a) i. Fill in the blank box with a suitable digit to get a three digit number divisible by 6.
 - ii. Write 72 as a product of prime numbers.
 - iii. Write answer the obtained in (ii) above in index form.
 - b) In a certain dancing group, 60 students wear pink dresses and 24 wear blue dresses. If they are to be placed in such a way, that the students who wear the same colour are in the same row. Using the knowledge of highest common factor, find the maximum number of students that can be in a row.
- (02) The following incomplete multi-column graph shows the runs scored by the teams *A* and *B* in the first three overs of a one day cricket match.



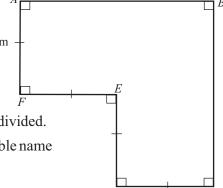
i. Copy the table given below into your answer script and fill in the blanks.

Team	1 st over	2 nd over	3 rd over
A			8
В			5

- ii. Copy down the multi-colomn graph and complete it.
- iii. What is the difference of runs scored by the teams A and B in the second over?
- iv. Find the total of the runs team A scored in fist three overs.
- v. Amith says that at the end of the three overs, the team that scored highest number of runs is A. Giving reasons, state weather the statement is correct.

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- - ii. Add: $1 \frac{3}{8} + \frac{2}{5}$
 - b) i. A trader sold $\frac{1}{2}$ of a pumkin on the first day and $\frac{1}{4}$ of it on the second day. What fraction of the whole pumkin was sold in both the days?
 - ii. If the mass of the pumkin sold on the first day was 3 kg 500 g find the total mass of the pumpkin.
 - iii. Find the mass of the part remained after selling in the fist two days.
- (04) i. Construct a circle of radius is 5 cm.
 - ii. Construct a regular hexagon of side length 5 cm on the circle and name it as ABCDEF.
 - iii. Join A, C and E in order to obtain the triangle ACE. Measure and write the length of one side of the triangle.
 - iv. When classified according to the sides, what type of a triangle is ACE?
 - v. Name two isosceles triangles in the figure.
- (05) The diagram shows a sketch of a land.
 - i. What is the length of the side BC?
 - ii. Find the perimeter of the land.
 - iii. Find the area of the land.
 - iv. The land owner intends to divided the land between his two children equally. Copy this diagram in your answer script and using dotted lines, show how the land should be divided.
 - v. When the land is divided as mentioned above, write a suitable name for the shape of one part.



- (06)a) i. Simplify: 3a + 2b + a + 4b.
 - ii. Solve: 5x + 3 = 13.
 - b) Amara bought 5 books each cost Rs 5 and 3 pens worth Rs y each.
 - i. Build up an algebraic expression for the amount Amara spent.
 - ii. Write the balance received when Rs 500 was given to the trader in order to pay the above bill, as an algebraic expression.
 - iii. Find the amount remained if x = 50 and y = 15.
- (07) i. Draw a suitable Cartesian plane and plot the following points.

$$A(2,2)$$
, $B(4,8)$ and $C(6,2)$

Join the points in order to obtain a closed figure.

- ii. Draw the axes of symmetry of the figure.
- iii. Produce the axis of symmetry to intersects the x axis and mark the point of intersection as P.
- iv. Write the co-ordinates of point P.

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