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OF EDUCATION NORTH CENTRAL FROM

Grade

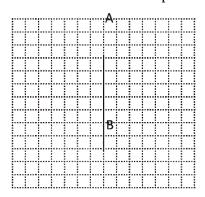
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Third Term Test - 2016 Mathematics

පාසලේ නම :	
ඇතුළත්වීමේ අංකය :	Time: 2hrs

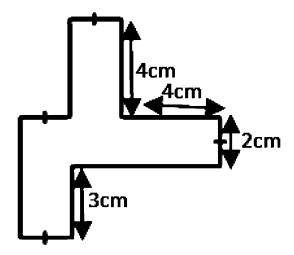
Part I

- Answer all the questions on this paper itself. 02 marks will he awarded for each correct answer.
- 01. Find the value of $573 \div 10$.
- 02. The duration of a course is 795 days. Find the duration of the course in Years, Months and Days.
- 03. Find the value $6+6 \div 3 \times 2$
- 04. Draw a Bilateral plane figure in the below grid considering AB as axis of symmetry.



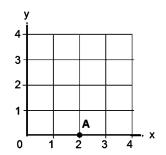
05. Write algebraic expression, $\frac{y}{3}$ +5p in words.

- 06. What is the sum of angles around a vertex point a Tessellation drawn using rectilinear plane figures?
- 07. Find the value of $1\frac{1}{2} + 4\frac{1}{6}$
- 08. If 4 pineapples out of 80 pineapples of a fruit seller have spoiled, what is the percentage of spoiled pineapples?
- 09. Write 180 as a product of prime factors.
- 10. Find the perimeter of the figure according to the given data.



- 11. The mass of 18 biscuits with equal mass is 864g, what is the mass of one biscuit in grams?
- 12. If p = 3 and q = 6, then find the value of $4p^2q$
- 13. Underline the most correct value for the given angle? (200°, 300°, 280°

- 14. What is the smallest number making remainder of 7 (greater than 7) divisible by 12,18 and 24?
- 15. The level of water in a tank due to dry whether condition was marked as,(-4.52). Due to rain the level rose to (+3.2), how many units have the water level increased?
- 16. State the simplest form of ratio 40 : 65 : 90
- 17. To enhance the volume of a cube by 27 times, by how many times the side length of that cube should be extended?
- 18. Write the coordinates of point A shown in the Cartesian plane.

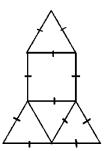


- 19. A patient has been prescribed 5ml of liquid dosage of medicine, a day. For how many days could the patient use a 0.15l bottle of the same medicine?
- 20. What is the solid object with the same shape of a Kaleidoscope with a triangle cross section that shows patters of multiple images?

Part II

• Auswer question number 1 and 4 others.

01. a) Can you remember the lesson you learnt on solid objects in classroom. Following is a block solid object given to you by the teacher without pasting allowance.



- i. What solid object could be made by using the given block? (1 mark)
- ii. According to that solid object find the number of edges, vertices and faces.(3 marks)
- iii. If you make such two solid objects and paste the square faces together, how many edges, vertices and faces the new solid object would contain. (3 marks)
- iv. Write the Euler's relationship related with solid objects. (1 mark)
- v. Prove the Euler's relationship using (i) and (ii) (2 marks)
- b) i. Name the two types of rectilinear plane figures that can be seen in the block used to create above solid object. (2 marks)
 - ii. Write two features of each two plane figures. (4 marks)

02. a) Following is a table with marks received by 4 students of Grade 7 for the 2nd Term test.

	Subject		
Name	Science	English	Maths
Seetha	55	45	50
Neetha	75	40	60
Chula	25	15	20
Reeta	40	60	45

- i. Depict the above information in a multiple column graph. (5 marks)
- ii. Who has obtained highest marks for Science? (1 mark)
- iii. For which subject does Neetha show weakness? (1 mark)
- iv. Find the Subject and the student who shows the lowest column height in the graph above.

 (1 mark)
- b)i. If M is the set containing all the marks of the above students, Write the set with all the elements. (2 marks)
 - ii. If Chula becomes last in the class out of the four students mentioned what is the type of incident it proves.
 - a. Definitely occurring incident
 - b. Definitely do not occurring incident.
 - c. Random incident. (1 mark)

03.	Using a pair of compasses a cm/mm scaled ruler and a set square show all the drawing in a samfigure.					
	i.	Construct a circle with center O and of radius 4cm.	(2 mark)			
	ii.	Construct a regular hexagon with A,B,C,D,E,F as vertices on the above cithem	ircle and name (2 marks)			
	iii.	Construct the parallel straight line to line ED through F.	(2 marks)			
	iv.	What is the measurement of $A\hat{F}C$?	(1 mark)			
	v.	Construct the ABP equilateral triangle by taking AB as a side and P vertice circle.	ces away from the (3 marks)			
	vi.	If point P locates in the circle when constructing ABP triangle, mark P in	the diagram.			
			(1 mark)			
04.	The m	neasurement related to length width and height of a toothpaste box is shown	in the diagram.			
		8cm 0.12m				
	i.	It is needed to paste a black paper around the Toothpaste box. Find in cm	² the of black			
		paper. (ignore the pasting allowance)	(4 marks)			
	ii.	Find the volume of the box in cm ³	(3 marks)			
	iii. :	Show that is is impossible to place 100 small cubes of 8cm ³ in this box.	(2 marks)			
	iv.	Write the length and width of the scalar diagram drawn in 1:2 ratio to mar plane figure in the above box.	(2 marks)			
05.a)	A pric	A price of a colouring box is two times and 50 rupees as a price of a book.				
	i.	Build on agebric expression if the price of the book is y.	(2 marks)			
	ii.	If the price of a colouring box is 120, find the price of a book.	(4 marks)			
b)	$\frac{a}{3} + 2$	= 4 Simplify the equation by a flow chart.	(5 marks)			
06.	a)	72 players in a sports club play only one from the games cricket, volleyba	ll and badminton.			
		The ratio is respectively 2:3:1				
	i.	How many volleyball players are there in the club?	(2 marks)			
	ii.	State the number of volleyball players as a fraction with all the players.	(2 marks)			
	iii.	A player says the number of volleyball players consists of 60% from all the	ne players. Show			
		whether he is correct or incorrect by calculating the percentage.	(4 marks)			
b)	i.	1 1/4 state as a decimal number.	(1 mark)			
		ii. Find the value of 4-2 1/4	(2 marks)			