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கல்வித் துறை - வட மத்திய மாகாணம்
DEPARTMENT OF EDUCATION - NORTH CENTRAL PROVINCE



Grade
07

Second Term Test - 2022 Maths

Name of the School :

Name of student / Index number :

Time - 02 hours

● Answer all the questions in this paper

01 Simplify $20 - 5 \times 3$

02 Write 125 in index notation with 5 as the base.

03 $A = \{ \text{multiples of 5 between 5 and 50} \}$, Write the elements of this set in curly brackets

04 In a map drawn to the scale 1 : 50 000, find the actual length represented by 8 cm

05 If the following number is divisible by a without a remainder, write a suitable digit can be written in its unit place

111 220 00.....

06 Express 0.35 as a fraction and write it in simplest form

i.

ii.

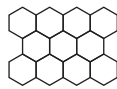
07 Name two mathematical instruments used to draw the parallel lines

08 Select the pure tessellation from the following figures.

i



ii



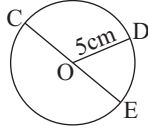
iii



iv



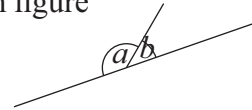
09. According to the given information find the length of the diameter of the circle with centre "O"



10. Name the angles denoted by the letters in the given figure

a = _____

b = _____



11. Write the starting date of 21st century

12. Simplify $(-11) + (+5)$

13. Select the random events from following occasions and put "✓" mark in the cage

- | | |
|---|--------------------------|
| i. Appearance of the moon on a new - moon day | ☐ |
| ii. The next student enters to the class be a boy | ☐ |
| iii. Rain occurring to day | ☐ |
| iv. The sun rising from the east | ☐ |

14. $\begin{array}{r} l \quad ml \\ 6 \quad 15 \\ -2 \quad 78 \\ \hline \end{array}$

$\underline{\quad \quad}$

$\underline{\quad \quad}$

$\underline{\quad \quad}$

15. Select concave polygons from following figures

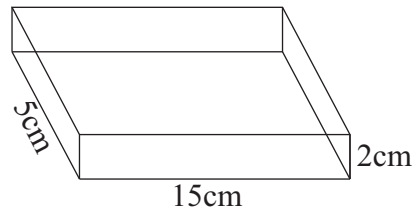


16. The mass of one packet biscuit is 50g 170mg Find the total mass of eight such packets.

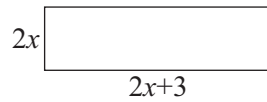
17. Simplify $123.45 \div 100$

18. from a piece of ribbon of length 3m, a length of 1m 17cm is cut out.
Find the length of the remaining part

19. Find the volume of the given cuboid.



20. Write an expression for the perimeter of following rectangle and simplify it



Part II

- Answer 5 questions including first questions

01. (a) Study the following cartician plane figure and answer the given questions

i. Write the coordinates of the points A,B,D correctly

A =

B =

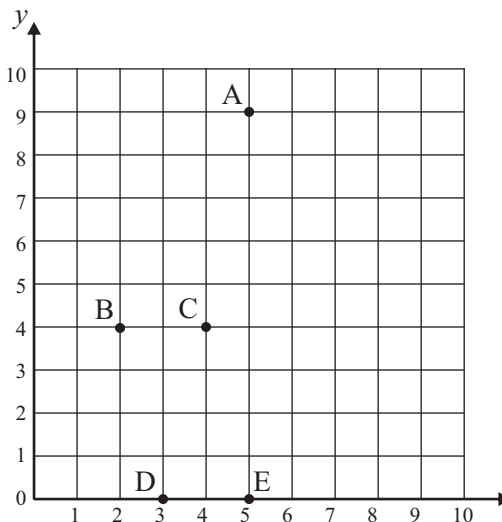
D =

03 Marks

ii. Join the points A,B,C,D,E in the Order of the letters with straight Line segments 01 Marks

iii. Join AE straight Line segment using a dotted line 01 Marks

iv. Consider the AE as an axis of symmetry and complete the plane figure on the cartician plane by drawing the remaining part 02 Marks



(b) Review the Lesson "solid" done in your class.

i Write the name of the solid can be made by using given net figure 01 Marks

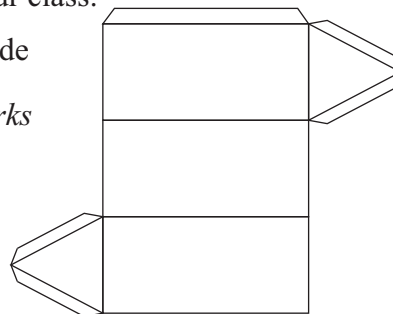
ii Write the number of faces, edges and vertices of above solid

Number of faces

Number of edges

Number of vertices.....

03 Marks



(c) i. You are given a regular tetrahedran with the faces which are same to the traingular face in above solid and a compound solid is constructed by pasting two traingular faces of the tetrahedran and the above solid. Write the Number of faces, edges and vertices of the compound solid.

Number of faces

Number of edges

Number of vertices 03 Marks

03 Marks

ii. Show that above solid satisfies Euler Relationship

02. i Draw a circle of radius 5cm and name its centre as O using the compass (Mark.2)
- ii Construt the A,B,C,D,E,F regular hexogan on the above drawn circle using compass (Mark.5)
- iii Join A,C,E and obtain a triangle (Mark.1)
- iv Name the type of the triangle ACE according to the lengths of sides (Mark.1)
- v Measure the magnitude of the $\hat{ACE}$ (Mark.2)
- Use given space for your construction

03. i Write $5\frac{2}{3}$ as an improper fraction (Mark.2)

ii Compare following Fraction using the symbols "<and>" by writing the method that your got the answer (Mark.3)

$$5\frac{2}{3} \dots\dots\dots 5\frac{3}{5}$$

iii Simplify $\frac{2}{3} + \frac{1}{2} + \frac{5}{6}$ (Mark.3)

iv Simplify $5\frac{2}{3} - 1\frac{5}{6}$ (Mark.3)

04. (a)

i. The length of the following rectangle is 5cm greater than its breath write an atgebraic expression for the its length (Mark.1)



ii. If the perimeter of the above rectangle is P write an algebraic expression to express its perimeter using algebraic terms (Mark.3)

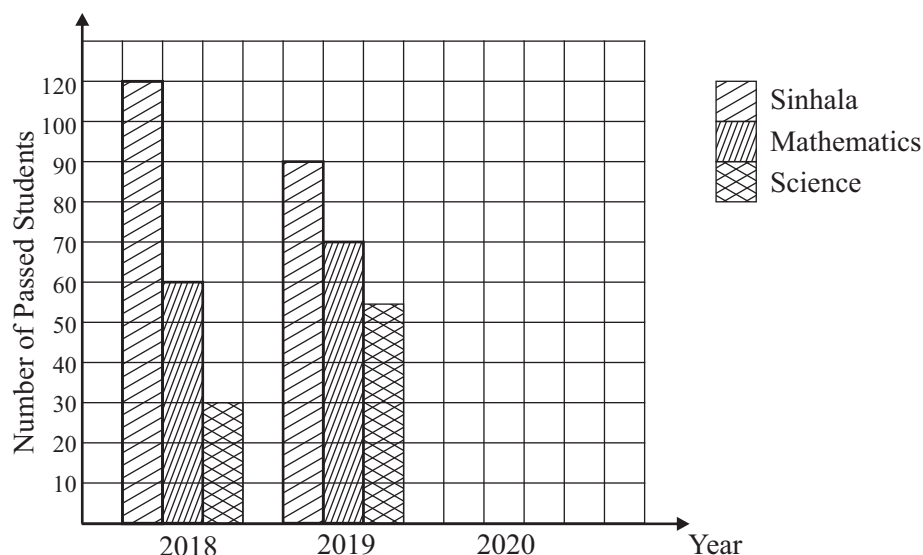
iii. If $a = 8\text{m}$, Find the perimeter of the rectangle (Mark.2)

(b)

i. Write an algebraic expression for the amount spent on three books of the same type which cost x rupees each and two pens which cost rs.25 each
..... (Mark.2)

ii. The money spent to buy above things is Rs.450, Construct an qquation and find the price of a book. (Mark.3)

05. The following uncompleted multiple column graph provides information on the students who passed the mathematics, Science and sinhala subjects of the ordinary level exam during three years in a certain school



- The number of students who passed above subjects in 2020 is as follows, Sinhala - 80 students, Mathematics - 85 students, Science - 50 students. Represent this information on above graph correctly (Mark.3)
- Which subject shows a gradual increase in the number of passed students during the years.? (Mark.2)
- Which subject shows a gradual decrease in the number of passed students during the years? (Mark.2)
- How many more students who passed Mathematics than science in 2019? (Mark.2)
- Find the total number of students who passed the Science subject during 03 years. (Mark.2)

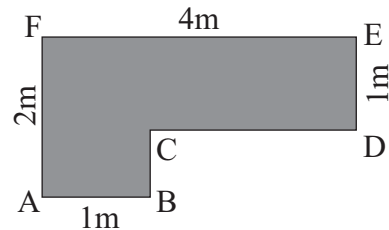
06. The following figure shows ABCDEF flower bed. It is proposed to build a brickwall around it

- i. Write the length of CD and BC in centimeters

CD =

BC =

(Mark.2)



- ii. Find the total length of the brickwall
(Mark.2)

- iii. Find the total area of the flower bed

(Mark 5)

07. i. Fill in the blank. $2:5 = \dots : 15$

(Mark 1)

- ii. To make a certain type of fertilizer, phosphorus and Potassium are mixed in the ratio 3:5. If the mass of potassium is good, Find the total mass of the mixture

(Mark 4)

- iii. A certain number of students are entered to Art, Commerce and Science Streams in the ratio 2:5:3 for AL subject in a certain school. If the total number of students who entered for above streams is 240, Find the number of students entered in each stream separately.

(Mark 6)



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පහසුවෙන් පියවන්න

ඕනෑම පොතක් ඉක්මනින්
නිවසටම ගෙන්වා ගන්න



| කෙටි සටහන් | පසුගිය ප්‍රශ්න පත්‍ර | වැඩ පොත් | සඟරා | O/L ප්‍රශ්න පත්‍ර
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කෙටි සටහන්, වැඩ පොත්, අතිරේක කියවීම් පොත්, සඟරා
සිංහල සහ ඉංග්‍රීසි මාධ්‍යයෙන් ගෙදරටම ගෙන්වා ගැනීමට

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