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I, II

**.Ks;h**

**Mathematics**

**meh 03**

**Three Hours**

**08 fY%aKsh – f;jk jdr we.hsu - 2022**

**தரம் 08 - ஆண்டிறுதி மதிப்பீடு - 2022**

***Grade 08 – Third Term Examination - 2022***

Ydka; mS;r úÿy, - fld<U 04

புனித பேதுரு கல்லூரி, கொழும்பு 4

***St. Peter's College - Colombo 04***



Name : ……………………………………………….... Class : ………….. No: …………..

**Part - I**

* **Answer all the questions in the paper itself.**

01. Write the number 0.07 as a fraction.

02. Find the 40th term of the number pattern 2, 4, 6, 8, …….

*x*

28o

03. Find the value of *x*.

04. Underline the correct answer of 29.052 100

i). 0.29052 ii). 2.9052 iii). 2905.2 iv). 29.

05. Find the value of “M” where 3 : 2 = M : 8

8 cm

5 cm

06. What is the perimeter of this triangle.

30o

100o

y o

07. Find the value of y

08. Simplify : (- 8) + (- 2) =

09. If the statements are correct, mark it as () and if it incorrect mark it as ()

i. All faces of platonic solids are regular polygons. ( )

ii. Cuboid is the platonic solid ( )

10. Simplify : (- 2p) (5p - 3) =

11. Write 81 in the index notation with base 3

12. 5.08 t = \_\_\_\_\_\_\_\_\_\_\_ t \_\_\_\_\_\_\_\_\_\_\_ kg

13. Find

14. Fill in the blanks.

i. The sum of the interior angles of a triangle is \_\_\_\_\_\_\_\_\_\_\_.

ii. The sum of the interior angles of a quadrilateral is \_\_\_\_\_\_\_\_\_\_\_.

15. Simplify : 1 =

16. Ajatha spends 20% of the salary for food. If she spends Rs. 25,000/- for food, Find her salary.

- 4

- 3

- 2

- 1

0

1

2

3

4

5

17.

Write the inequality represented on the number line in that algebraic form.

***x***

- 4

- 3

- 2

- 1

0

1

2

3

4

**y**

- 1

- 2

- 3

1

2

3

18. Draw the straight line *x* = 2

on the given Cartesian plane.

19. 12, 17, 11, 10, 12 are the collection of data.

i. Find the mode.

ii. Find the median

20. Draw a sketch to show the direction S 30o W.

**Part – II**

* Answer 05 questions including the first question.
* 16 marks for the first question and 11 marks for each other questions.

**01.**

A). Write the correct classifications of these triangles.

i. ii. iii.

***(3 1 = 3)***

B). Find the magnitude of the angle marked as *x* in each figure.

i. ii. iii.

*x*

*x*

*x*

*x*

*x*

***(2 3 = 6)***

**A**

**B**

**C**

**D**

**E**

**F**

**G**

**H**

**I**

**J**

C). i. Vertically opposite angle of E B is \_\_\_\_\_\_\_\_\_\_\_.

ii. Supplementary adjacent angle of AG is \_\_\_\_\_\_\_\_\_\_\_.

iii. Vertically opposite angle of BH is \_\_\_\_\_\_\_\_\_\_\_.

iv. Complementary adjacent angle of DJ is \_\_\_\_\_\_\_\_\_\_\_.

***(4 1 = 4)***

D). Name the solids which can be constructed using each net given below. ***(3 1 = 3)***

i. ii. iii.

**02.** In the number pattern of 5, 10, 15 ………..

i. What is the general term?

ii. What is the 10th term?

iii. Which term is 65?

B). Sajith Says “the number 200 is not in this pattern.”

i. Do you agree this statement?

ii. Give reason for your answer.

**03.**

A). Find the value of each of the following.

i. ii. iii.

***(1 + 1 + 2 = 4)***

B). If the area of the square is 400 cm2 ,

i. Find the side length of the square. ***(02)***

ii. Find the perimeter of the square. ***(02)***

C). If you want to cut a circle from the above square, Find the maximum value of the radious.

***(03)***

**04.**

A). Simplify.

i. ***(01)***

ii. 1 2 ***(02)***

iii. 5 - 1 ***(02)***

iv. 1 8 ***(02)***

v. 1 8 ***(02)***

vi. 2 ***(02)***

**05.**

A). Fill in the blanks with or

i. 2 ………….. {even number}

ii. 9 ………….. {prime number}

iii. *a* ………….. {1, 2, 5, 7}

iv. Circle ………….. {solids} ***(04)***

B). L {Letters in the word **“MAHARAGAMA”**}

i. Write the set L by listing the elements within brackets. ***(02)***

ii. Find n(L). ***(01)***

C). M = {even numbers between 6 and 8}

i. What is the special name of the set M? ***(02)***

ii. How can you write the set M in set notation (given two methods)? ***(02)***

**N**

**S**

**W**

**E**

**O**

**P**

**Q**

**S**

**06.** Complete the table by using the above figure.

|  |  |
| --- | --- |
| **Place** | **Direction of the place with respect to O** |
| **P** |  |
| **Q** |  |
| **R** |  |
| **S** |  |

***(03)***

B). Mark each of the following points on a,

i. Cartesian plane where the X – axis and the Y – axis are marked from -4 to 4.

A (-3 , 1) , B (-1 , 3) , C (1 , 3) , D (3 , 1) , E (3 , -1) , F (1 , -3) , G(-1 , -3) , H(-3 , -1)

ii. Join the points by the straight line. ***(01)***

iii. By using this object can you create a regular tessellation? ***(01)***

iv. Give the reason by drawing the tessellation. ***(02)***

**07.**

A). 12, 5, 23, 12, 10, 8, 5, 12, 20 are the project marks of the group of students out of 25.

i. Find the mode. ***(02)***

ii. Find the median ***(02)***

iii. Find the mean. ***(02)***

B). i. Construct the triangle ABC where AB = 6.5 cm , AC = 6.5 cm and BC = 8 cm. ***(03)***

ii. Find the magnitudes of the angles AC and AB.