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**Mathematics**

**meh 02**

**Two Hours**

**08 fY%aKsh – m<uq jdr we.hsu - 2024**

***Grade 08 – First Term Examination - 2024***

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புனித பேதுரு கல்லூரி, கொழும்பு 4

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



Name: ''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''' Class: '''''''''''''''''''' No: ''''''''''''''''''

Part - I

* Answer all questions on given space.

01. Find the 10th term of the number sequence where the general term is,

02. Simplify

03. Solve

04. Find the perimeter of the above diagram.

5cm

05. Complete the below figure (net) to construct a regular octahedron.

06. Find the value of using the number line.

A

F

E

D

C

B

07. Name a pair of complementary angles.

08. Find magnitudes of,

i.

ii.

09. What is the supplement of

10. Find

A

B

C

o

11. If Find the value of .

12. Find the length of a square when its perimeter is .

13. Solve .

14. Find the value of .

15. There are 12 vertices and 30 edges in a regular icosahedron. Find the number of faces it has using Euler’s relationship.

16. What is the additive inverse of .

17. Remove brackets and simplify as much as possible

18. Find the value of

19. Draw the net that can be used to construct a square pyramid.

O

B

C

A

20. If is a straight line, find the value of

i.

ii.

Part - II

* **Answer all questions.**

01. Recall how you constructed solids in the classroom.

i. What is the solid you can construct using the above figure (net) **(01)**

ii. Write the number of edges, vertices and faces of the solid. **(03)**

iii. Write down Euler’s relationship. **(02)**

iv. Show that the numbers of edges, vertices and faces of the above solid proves Euler’s relationship **(02)**

v. Draw a diagram of a solid with curved edges. **(01)**

vi. Write 03 platonic solids. **(03)**

vii. Write 03 non-platonic solids. **(03)**

viii. How can you identify a platonic solid? (Write one characteristic) **(01)**

55

100

A

B

C

D

02. &'

and are straight lines.

i. Find (Give reasons) **(02)**

ii. Find (Give reasons) **(02)**

). i. Write the number pattern of multiples of 2, starting from 2 **(01)**

ii. Find the general term of the above number pattern. **(02)**

iii. Write the number pattern of odd numbers, starting from 1. **(02)**

iv. Write the general term of the above pattern. **(02)**

03. i. Solve using the number line. **(02)**

Find the

ii. **(01)**

iii. **(02)**

iv. **(02)**

v. **(02)**

vi. **(02)**

04. i. Add to **(02)**

ii. Solve **(03)**

iii. Simplify **(03)**

iv. If Find the value of **(03)**

05. ). This is a diagram of a rectangle. If the length is and breath is ,

i. Construct an algebraic expression for its perimeter. **(03)**

6 cm

12 cm

&' i. Find the value of **(02)**

ii. Find the value of **(02)**

iii. Find the perimeter of the diagram. **(02)**

). If the perimeter of a square shaped flower bed is , Find the length of a side. **(02)**