

Answer all the questions

(1) Write the next two terms of the following number pattern.

(2) 1, 4, 9, 16, Find the general term of this number pattern.





- (5) Find i) Complement of 70°
 - ii) Supplement of 70°
- (6) Find the value $\sqrt{(3 \times 4) \times (3 \times 4)}$
- (7) Find the additive of (-12) and (+3)
- (8) Express 7 t 450 kg in kilograms

(9) Find the value a) (-7) + (-3)
b) (-3) − (-3)

(10) Solve x + 2 = 10

- (11) The area of a squared land is $16km^2$. Find its side length and perimeter.
- (12) Fill in the blanks by inserting "<" or ">" $4^3 \dots \dots 50$
- (13) Write and draw the shape of a face of a regular tetrahedron
- (14) Find the H.C.F of 6, 12, 18
- (15) Factoriee this expression 8x + 4y + 12
- (16) Find the value $\sqrt{144}$
- (17) If x = 2 and y = -3 find the value of $x^2 + y^2$



(19) Name two platonic solids



<u> PAPER - II</u>

Answer first question and only other 4 questions. Total five questions.

(1) Think of the activity done in your class room when you learning the lesson of solid objects.



- i) Name the solid that can be constructed using the net given above (m.2)
- ii) Write the shape of its face .
- iii) Using above solid find a) number of edges.
 - b) number of faces c) number of vertexes (m. 6)
- iv) Write down the rulers relationship for solids. (m. 2)
- v) verify rulers relationship using the information of above question. (m.1)



iv) This is a solid constructed by joining a cube and a square pyramid. Find,

- a) number of edges
- b) number of faces
- c) number of vertexes

(m.2)

(m.2)

(2) i) Draw next pattern of this creations.



ii) Write down the number of triangles in each figure of the above pattern in order . (m.2)

- i) Find the general term of the number pattern. (m.3)
- ii) Find the total triangles of 30th pattern by using general term. (m. 2)
- iii) Show that the figure with 50 triangles is not in this pattern. (m.2)
- (3) AB and CD straight lines intersect the point O



b) Name a pair of complementary adjacent angles. (m.2)

c) Name a pair of supplementary adjacent angles. (m.2)

a) 5x + 20 b) 3xy + 9xz (m.2)

ii) Simplify *a*)
$$\frac{p^7 \times p^3}{p^4}$$
 b) $(x^2 y^3)^3$ (m.4)

iii) Find H.C.F

(m.2)

(5) Find the answers.

i) a)
$$(+9) + (-2)$$
 b) $(+1) - (-3)$
c) $(-2) + (-3)$ d) $(-2) - (-2)$ (m.4)

ii) Simplify
$$\frac{(+3) \times (-4)}{(-6)}$$
 (m.3)

iii) Find the value of $\sqrt{100}$ *using prime factors.* (m.4)



Rectangular land with length is x + 5 and breth is x
i) Find algebraic expression of perimeter . (m.4)
ii) Find Algebric expression of area. (m.3)
iii) If perimeter of this land is 50m. Then find

x and length. (m.4)

(7) Simplify. i) 5t 250 kg \times 7 a) kg b) kg c) t t 10 000 6 250 d) 14 t 800 kg ÷ 4 + 3 450 - 4 400 (m.4)

ii) Fill in the blanks using suitable weighting measuring units

a)	Mass of paracetamol tal	blet i	s 500	
b)	Mass of cement bag is	50		(m.2)

iii) If a = 2, b = 3, c = 1 find the value of

- *i*) a^2 (m.1)
- $ii) a^2b$ (m.2)
- $iii) \quad a^2 b + c \tag{m.2}$

ରରିଠ ଅଧିକଣ ସିଧ୍ୟରୁ ଅଧିକ ଅନ୍ତ୍ର (mathspapers.info) ଚେରିର୍ଷ ଅଧ୍ୟରେ ସହ ଭିରାଦାର୍ଶର