CONCEPT APPLICATION LEVEL - II SECTION-A

► FILL IN THE BLANKS

- Q.1 A cuboid is called a _____.
- Q.2 A regular tetrahedron has _____ faces.
- Q.3 A hexagonal prism has ______ edges.
- Q.4 An octagon pyramid has _____ vertices.
- Q.5 A regular octahedron is formed when _____ pyramid with _____ triangles as lateral faces are joined.

___.

- Q.6 A solid figure which has only one vertex is _____.
- Q.7 An iron almirah looks like a _____.
- Q.8 Total faces in a pyramid which has eight edges are _____.
- Q.9 A solid whose surface is made up of polygonal faces is called a _____.
- Q.10 Name the solid figure which has 6 vertices, 12 edges and 8 triangular faces _____.
- Q.11 Solids are shown on paper by their _____ representations.
- Q.12 If all corners of a polygon are joined to a point not lying in its plane. We get a _____.
- Q.13 The side faces of a pyramid form its _____.
- Q.14 The end of which a prism may be supposed to stand is called ______ of the prism.
- Q.15 The perpendicular distance between the ends of a prism is its _____
- Q.16 The straight line joining the centres of the ends of a prism is called the _____ of the prism.
- Q.17 A pyramid is called a quadrilateral pyramid if its base is _____.
- Q.18 A tetrahedron has vertices.
- Q.19 Each face of a tetrahedron is an _____ triangle.
- Q.20 A cylinder has _____ faces.
- Q.21 An octahedron has ______ faces ______ vertices ______ edges.
- Q.22 A pyramid on n sided polygon has ______ faces ______ vertices ______ edges.
- Q.23 A prism on n sides polygon has ______ faces ______ vertices ______ edges.
- Q.24 A regular prism has all its ______ equal.

SECTION-B

\triangleright **MULTIPE CHOICE QUESTIONS** Q.1 The top view of a cuboid is a : (A) Square (B) Rectangle (C) Parallelogram (D) None of these Q.2 A solid cone is a : (A) 2-dimensional figure (B) 3-dimensional figure (C) Either 2-dimensional or 3-dimensional figure (D) None of these Q.3 The odd one in the following is : (D) Cone (B) Cylinder (C) Circle (A) Sphere A 3-dimensional figure which does not have any vertex and any flat face is a : Q.4 (B) Cylinder (A) Sphere (C) Cone (D) None of these

Q.5	The top view of the gi	ven figure is :	T		
	(A)	(B)	(C)	(D) None of these	
Q.6	The name of the pyramid whose base is a polygon of five sides is a :(A) Hexagonal pyramid (B) Tetrahedron(C) Pentagonal pyramid (D) None of these				
Q.7	The solid which is not (A) Pyramid	a polyhedron is : (B) Prism	(C) Cuboid	(D) Cylinder	
Q.8	If a polyhedron has 12 (A) 12	2 vertices and 8 faces, th (B) 14	en the number of edges (C) 16	of the polyhedron is : (D) 18	
Q.9		uler's formula (where the $(B) F + V - E = 2$		al meanings) is : (D) $V + E - F = 1$	
Q.10	Which one of the follow (A) 5, 9, 7	wing is the possible numb (B) 8, 18, 12	er of faces, edges and vert (C) 8, 12, 7	ices respectively of a polyhedron? (D) None of these	
Q.11	The number of edge is (A) 4	n a pyramid with square (B) 6	base is : (C) 8	(D) 10	
Q.12	Which is a two dimens (A) Circle	sional figure ? (B) Cylinder	(C) Sphere	(D) Tetrahedron	
Q.13	Which is a three dimen (A) Rhombus	nsional figure ? (B) Quadrilateral	(C) Cone	(D) A line segment	
Q.14	How many plane face (A) One	es does a cylinder has ? (B) Two	(C) Three	(D) None	
Q.15	Flat surface of a three (A) Edge	dimensional figure is cal (B) Vertex	lled : (C) Surface	(D) Corner	
Q.16	The number of vertice (A) 1	es in a cone is : (B) 2	(C) 6	(D) 8	
Q.17	Solids with lines segments as their edges are called :(A) Square(B) Polygons(C) Polyhedrons(D) Cylinders				
Q.18	If $E = 5$, $V = 3$ then the (A) 6	ne value of F is : (B) 4	(C) 7	(D) 2	
Q.19	Which of the followin (A) Cylinder	g solids has maximum n (B) Cuboid	umber of vertices ? (C) Cone	(D)Tetrahedron	

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Q.20	If polyhedron has six faces and eight vertices, find the number of edges. (A) 12 (B) 10 (C) 11 (D) 13					
Q.21	A polyhedron has sixt (A) 12	teen vertices and twenty (B) 10	four edges. How many f (C) 11	faces does it have? (D) 13		
Q.22	A polyhedron has sev (A) 15	en vertices and ten face (B) 20	s. How many edges does (C) 22	(D) 25		
0.00						
Q.23	A solid has forty faces (A) 15	s, sixty edges. How man (B) 20	y vertices does it have ? (C) 22	(D) 25		
0.04						
Q.24	(A) 1	g is the number of faces (B) 2	(C) many	(D) none of these		
0.05						
Q.25	 Q.25 Which of the following is a triangular pyramid having all faces as equilateral triangular (A) Rectangular pyramid (B) Square pyramid 					
	(C) Tetrahedron		(D) None of these			
Q.26	Which of the following is the number of vertices of sphere?					
,	(A) 0	(B) 1	$(C)^{1}2$	(D) 4		
Q.27	Which of the following can be other name of a cylinder?					
	(A)Atriangular prism (B)A rectangular prism (C)A vertical prism (D)A circular p					
Q.28	If the base of a prism is a polygon of 'n' sides, then which of the following is the number of faces of the prist					
-	(A) n + 2	(B) $n + 1$	(C) n	(D) $n - 1$		
Q.29	Which of the following is the base of a tetrahedron?					
		(B) a rectangle		(D) a cuboctanedron		
Q.30	30 Which of the following is the other name of a cube?					
	(A) a tetrahedron	-	(B) a regular hexahedr	ron		
	(C) a squareantiprism		(D) a cuboctanedron			
Q.31	Which of the following nets matches that of a cube?					
	(A)		(C)	(D)		
Q.32	Which of these nets matches that of a cylinder?					
X.22			$\widehat{}$			



Q.33 Which of the following picture is the correct for the given net?





Q.42 The given figure shows 3 different views of a three-dimensional figure constructed from cubes. Which could be the correct option? [IMO-2016]



SECTION-C

MORE THAN ONE CORRECT ANSWER

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Q.1

- Q.1 Which of the following(s) represents the Euler's formula? (A) F + V - E = 2 (B) F + V = 2 + E (C) F + V - 2 = E (D) E + F = V
- Q.2 Given below are 4 nets. Which of them is the correct net of an equilateral triangular pyramid?



SECTION -D

MATCH THE COLUMN Match the following: **Column**A **Column B** Number of faces of a cuboid (a) (i) 2 Number of vertices in a tetrahedron 6 (b) (ii) Number of faces of a shape 4 (c) (iii) Number of faces of a hemisphere 1 (d) (iv)