Remember & Understanding Based Questions

Ques.1) Rhombus is an example of:
a) 2-D shape   b) 6- D shape   c) 3-D shape   d) Both 2-D and 3-D shape

Ques.2) A pyramid is called a quadrilateral pyramid if its base is _____.
a) Quadrilateral   b) Polygon   c) Equilateral   d) Square

Ques.3) Cylinder is an example of:
a) 4 - D shape   b) 2 - D shape   c) 3-D shape   d) Both 3 - D and 2 - D shape

Ques.4) Which of the statements is false for a pyramid?
a) A pyramid has a polygonal base.   b) A pyramid can have only rectangular base.
c) A pyramid is named by the shape of its base.   d) A pyramid has triangular faces.

Ques.5) Rectangle is an example of:
a) 2 - D shape   b) 3 -D shape   c) 4 - D shape   d) Both 3 - D and 2- D shape

Ques.6) How many triangular faces are there in a rectangular pyramid?
a) 4   b) 9   c) 5   d) 8

Ques.7) Which of the following can be calculated only for a cone but not for a cylinder?
a) Volume   b) Curved surface area   c) Base area   d) Slant height

Ques.8) Which of the following statements is true?
1. The lateral faces of a triangular prism can be squares or rectangles
2. The lateral faces of a triangular pyramid can be squares or rectangles.
3. The lateral faces of a square pyramid can be squares.
4. The lateral faces of a square prism are triangles.

a) (D)   b) (C)   c) (A)   d) (B)

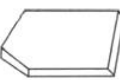**Ques.9)** Which of the statements is true?
1. The square pyramid has 4 triangular faces and 1 square base.
2. The triangular prism has 4 triangular faces and 1 square base.
3. The square pyramid has 4 triangular faces and 2 square bases.
4. The triangular prism has 3 triangular faces and 2 square bases.

a) D   b) C   c) A   d) B

Ques.10) George wants to make a pentagonal pyramid. How many triangles does he need to make the object?
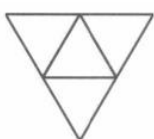a) 2   b) 4   c) 5   d) 3

Ques.11) Which of the following solids can be formed from the net in the given figure?
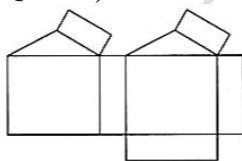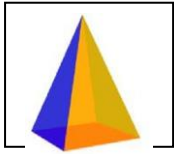

a)   b)   c)   d)

Ques.12) The net shown here forms a _____.

a) Sphere   b) Prism   c) Pyramid   d) Cube

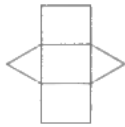**Ques.13)** What is the name of this solid?

a) a square pyramid   b) a tetrahedron   c) a square prism   d) a cone

Ques.14) The lateral faces of a pyramid are _____.
a) Triangles   b) Square   c) Rectangles   d) Cones

Ques.15) Fill in the Blanks.

1. In the prism , the number of vertices are_____.

2. The given net can be folded to make a _____.

3.   is a net of _____.

Ques.16) True State & False

1. Solid sphere has three faces.

2. Euler's formula is true for all three - dimensional shapes.

3. In a prism the lateral faces need not be congruent.

4. All cubes are prisms.

5. Every solid shape has a unique net.

6. On the basis of the given figure, the length of a rectangle in the net of a cylinder is same as circumference of circles in its net.
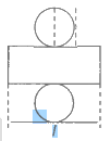
7. Different nets can be possible for the same solid.

8. A net of a 3 - D shape is a sort of skeleton - outline in 2 - D, which, when folded results in the 3 - D shape.

Analytical Based Questions

Ques.1) Assertion (A): In a triangle, median divides the side into two equal parts.
Reason (R): In an equilateral triangle median divides the triangle into two equal parts.
a) Both A and R are true and R is the correct explanation of A.
b) Both A and R are true but R is not the correct explanation of A.
c) A is true but R is false. d) A is false but R is true.

Ques.2) Assertion (A): A cuboid has 6 faces 10Edges and 8 vertices.

Reason (R): The length, breadth, and height of a cuboid may or may not be equal.

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.   d) A is false but R is true.

Ques.3) Assertion (A): These are the nets of square Prism.

Reason (R): A solid figure can be formed from more than one net.

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.   d) A is false but R is true.

Ques.4) Assertion(A): The dimension of a cuboid are 5cm, 3cm and 2 cm. Its three different isometric sketches are:
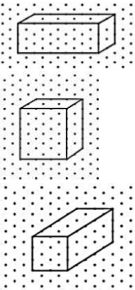
Reason (R): To draw sketches in which measurements also agree with those of the solids, we can use isometric dot sheets.

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.   d) A is false but R is true.

Ques.5) Assertion (A): If two cubes of sides 3cm by 3cm by 3 cm are placed side by side, then the dimensions of the resulting cuboid be length = 6cm, and breadth and height remain 3 cm.

Reason (R): To visualise any solid shape we have to see its three views as the top view, side view and front view.

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

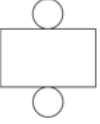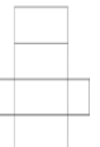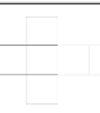c) A is true but R is false.   d) A is false but R is true.

Ques.6) Match the Column.

| Column A	Column B
a. A Cuboid has	p. cuboid
b. A shoe box is an example of	q. six faces
c. A tetrahedron has	r. eight vertices
d. A cube has	s. eight triangular faces

Ques.7) Match the Column.

Column A	Column B
a.	p. Parallelogram
b.	q. Cube
c.	r. Regular pentagon
d.	s. Rectangle

Ques.8) Match the Column.

Column A	Column B
(a) Cube	(p)
(b) Cuboid	(q)
(c) Cylinder	(r)
(d) Cone	(s)

Ques.9) Which of the following is the net of a solid?
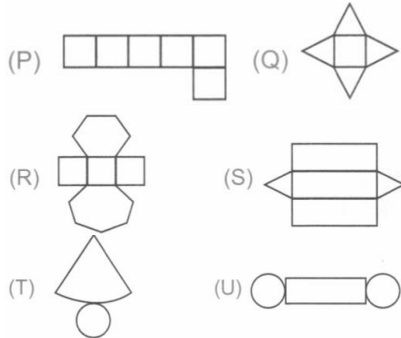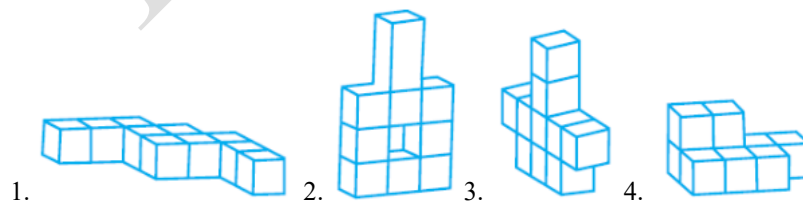

a) (Q), (S), (T) and (U) only   b) (P), (R) and (S) only   c) (Q) and (S) only   d) (P), (Q) and (T) only

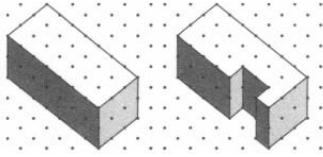**Ques.10)** Which of the following figures has 12 edges?
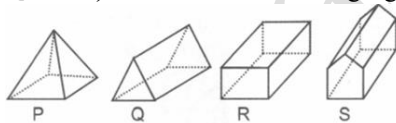
a) S   b) P   c) Q   d) R

Ques.11) Count the number of cubes in the given shapes.

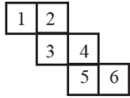1.   2.   3.   4.

Ques.12) How many unit cubes were removed from the solid on the left to obtain the solid on the right?

a) 4   b) 3   c) 6   d) 5

Ques.13) Can this be a net for a die? Explain your answer.

Ques.14) Can a polyhedron have 10 faces, 20 edges and 15 vertices?

Ques.15) A polyhedron has 17 faces and 10 vertices. How many edges does the polyhedron have?

Ques.16) The dimensions of a cuboid are 5 cm, 3 cm and 2 cm. Sketch three different isometric sketches of this cuboid.