10. <u>Visualizing Solid Shapes</u>

Q 1 What is a hexogonal prism?	
	Mark (1)
Q 2 How many vertices are there in a pyramid with a square	base? Mark (1)
Q 3 How many edges are there in a cuboid?	Mark (1)
Q 4 How many edges are there in a triangular pyramid?	Mark (1)
Q 5 How many vertices are there in a triangular pyramid?	Mark (1)
Q 6 How many faces are there in a triangular prism?	Mark (1)
Q 7 What are the three views in a solid?	Mark (1)
Q 8 What are regular polyhedrons?	Mark (1)

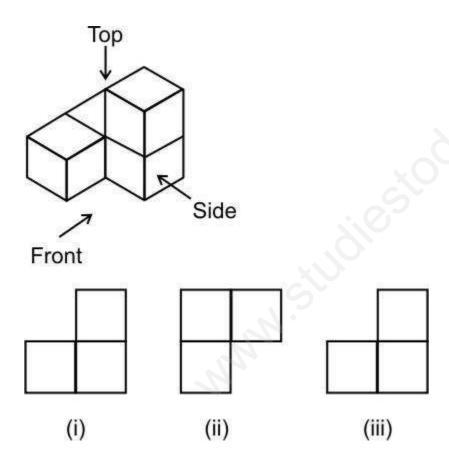
Q 9 A pyramid with square base has 5 faces and 8 edges. By Euler's formula, find the vertices of the pyramid.

Marks (2)

Q 10 Can a polyhedron have 20 faces, 40 edges and 30 vertices?

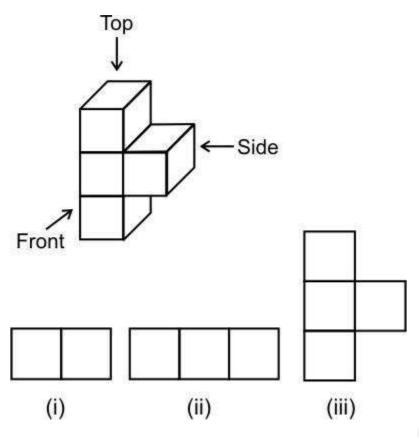
Marks (2)

Q 11 For the given solid, identify the top view, front view and side view.



Marks (2)

 $Q\ 12$ Identify the top view, front view and side view for the given solid.



Marks (2)

Q 13 Give two basic differences between a prism and a pyramid.

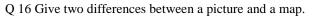
Marks (2)

- Q 14 Can a polyhedron have for its faces
- a) 3 triangles?
- b) a square and four triangles?

Marks (2)

Q 15 Give the importance of the scale in a map.

Marks (2)



Marks (2)

Q 17 State and verify the Euler's Formula for a rectangular prism.

Marks (2)

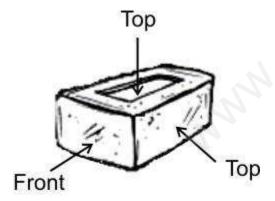
Q 18 Find the number of edges, vertices and faces in a cylinder.

Marks (2)

Q 19 State and verify the Euler's Formula for a cube.

Marks (2)

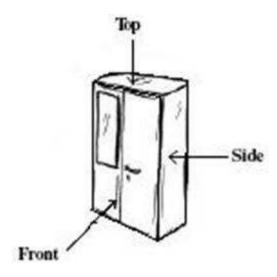
Q 20 Draw the three views of a brick.



A brick

Marks (3)

Q 21 Draw the front, side and top view of an almirah.

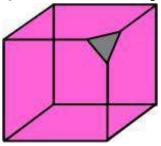


Marks (3)

Q 22 Find the number of edges, vertices and faces in a rectangular pyramid.

Marks (3)

Q 23 Find the number of edges, vertices and faces in a given solid.

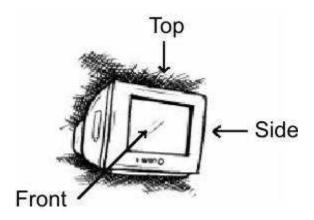


Marks (3)

Q 24 State and verify the Euler's Formula for a triangular pyramid.

Marks (3)

Q 25 Draw the front, side and top view of a television.



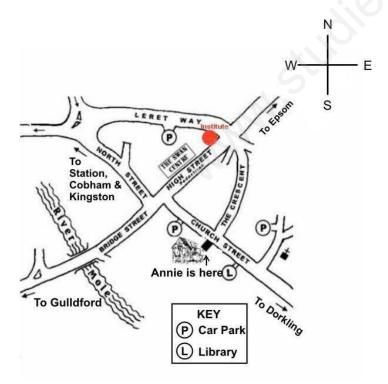
Marks (3)

Q 26 By using Euler's formula find the unknown.

- a) Vertices = 12, Faces = 4, Edges = ?
- b) Faces = 5, Edges = 8, Vertices = ?
- c) Edges = 2, Vertices = 3, Faces = ?

Marks (3)

Q 27 Look at the map given below:



Answer the following:

(a) Mark a green 'X' at the intersection of Church Street and High Street and a blue 'Y' at the intersection of North Street and Leret Way.

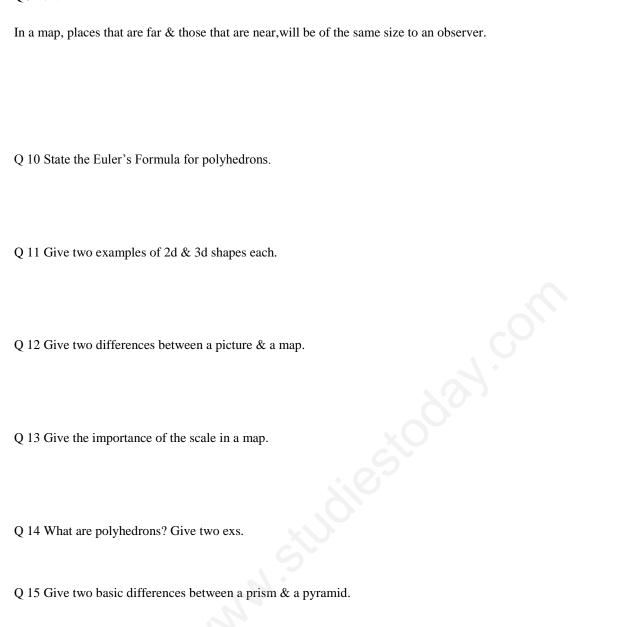
- (b) Highlight the shortest street route followed by Annie from her current position to the Institute in pink.
- (c) Which is further east, The Swan Centre or Institute?

Marks (5)

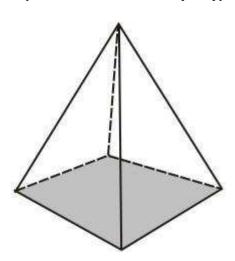
Most Important Questions

Q 1 What are two-dimensional shapes?
Q 2 What are three-dimensional shapes?
Q 3 T/F.
If we add the dimension 'height' to a rectangle(with certain length & breadth), we obtain a cuboid.
Q 4 A three dimensional shape is object.(solid/plane)
Q 5 A two dimensional shape is shape.(solid/plane)
Q 6 The three views in a solid are:
Q 7 The most important part of a map is the(scale, location)
Q 8 are used to depict different objects/places in a map.(Symbols/landmarks)

Q 9 T/F:



Q 16 Verify the Euler`s formula for a Square-pyramid:



Q 17 Draw the three views of a brick.

Q 18 Define :				
a) Face	b) Edge	c) Vertex		
Q 19 A pentag	onal prism has	faces,	_ edges &	vertices.
Q 20 A hexago	onal pyramid has	faces,	edges &	vertices.
Q 21 Match the front, side & top views of the following:				
Front			— Side	50000
(i)	(ii)	3 1 2	(iii)