



# GALGOTIAS UNIVERSITY

## All Programs Semester I CAT II – January 2022

### Answer uploading Template

Enrolment / Admission No. of Student	215CSE1010662	Name of Course	ECN
Name of Student	Shivam Divedi	Course Code	BME01T1001
Program	B.tech CSE	Date of Examination	18.01.22
Semester	1st	Time	8:00 - 9:40 AM
Signature of Student	Shivam		

Student shall start writing from below:

1) Ans. A projection plane or plane of projection is a type of view in which graphical projections from an object intersect. Projection planes are used often in descriptive geometry and graphical representation. A picture plane in perspective drawing is a type of projection plane.

3) Ans. Difference between pyramid and prism:

1) Both pyramids and prism are polyhedrons.

2) A prism has two bases while a pyramid has only one base with an apex.

3) The sides of the prism are rectangles or parallelograms while sides of the pyramid are triangles.

4) If a prism has the same base area and height as a pyramid, the volume of the prism is three times that of the pyramid.

3) Ans. Triangular prism:-

A triangular prism is a polyhedron made up of two triangular base and three rectangular sides. It is three-dimensional shape that has three side faces and two base faces, connected to each other through its edges.

- Square prism

A square prism is a three-dimensional shape cuboid figure whose bases are square and the other four faces are rectangle in shape. The opposite sides and angles are congruent to each other.

- pentagonal prism

The pentagonal prism is a prism having two pentagonal bases and five rectangular sides. It is a heptahedron.

- Hexagonal prism

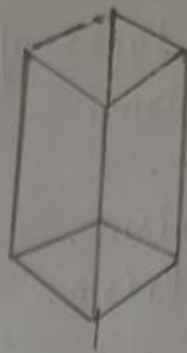
A hexagonal prism is a 3D-shaped figure with the top and bottom shaped like a hexagon. It is a polyhedron with 8 faces, 18 edges and 12 vertices where out of the 8 faces, ~~6~~ 6 faces are in the shape of rectangles and 2 faces are in the shape of hexagons.



a) Triangular prism.



b) Square Prism.



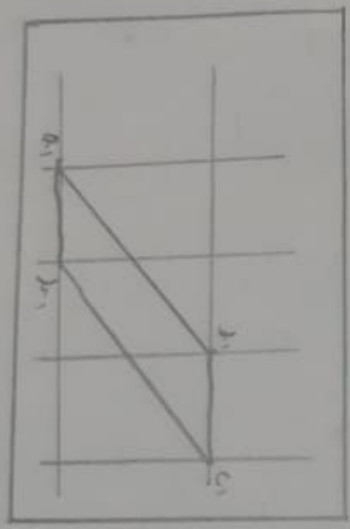
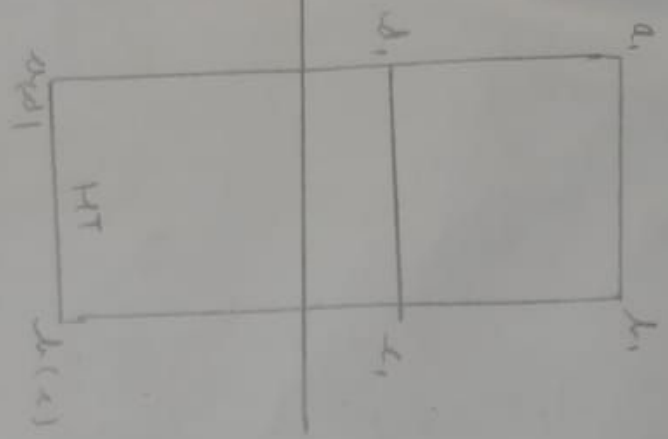
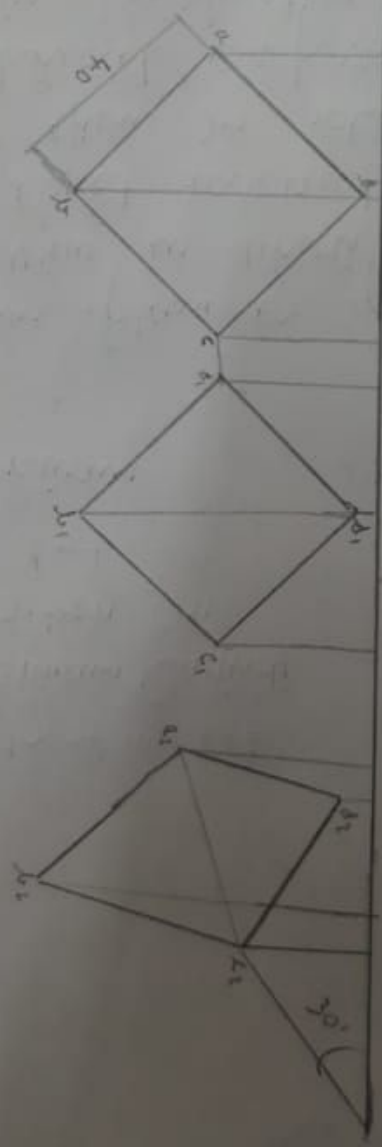
c) Pentagonal Prism

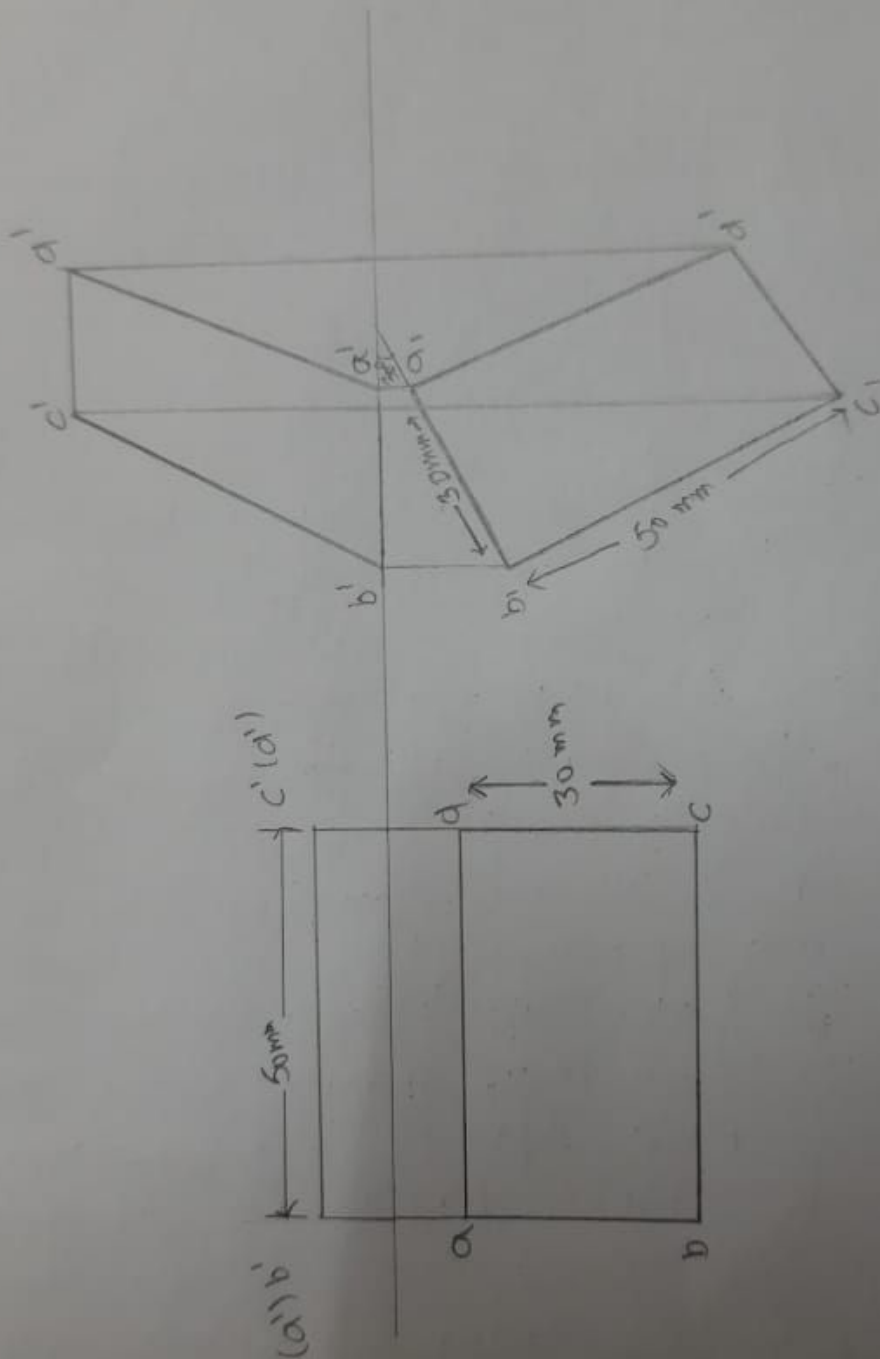


d) Hexagonal Prism.



5) Ans.





Ans.

6)

