

Q.1

Q.1 .a. Ans

5 marks

<p>A hand-drawn geometric construction for a regular pentagon. It starts with a circle of radius 4 cm. A horizontal chord AB is drawn at the bottom. Point C is located on the circumference such that angle AOC is 72 degrees. Chords AC and BC are drawn. Point D is found on chord AC such that angle AOD is 72 degrees. Chord CD is drawn. Point E is found on chord BD such that angle COE is 72 degrees. Chord CE is drawn, completing the pentagon. Various construction arcs and points are labeled with letters like G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z.</p>	<p>A hand-drawn geometric construction for a regular pentagon. It starts with a circle of radius 4 cm. A horizontal chord AB is drawn at the bottom. Point C is on the circumference. Chord BC is drawn. Point D is on chord AC such that angle AOD is 72 degrees. Chord CD is drawn. Point E is on chord BD such that angle COE is 72 degrees. Chord CE is drawn, completing the pentagon. Construction arcs and points are labeled with numbers 1 through 5.</p>
Construction of regular pentagon (method 1)	Construction of regular pentagon (method 2)

Q.1 .b. Ans

5 marks

<p>A hand-drawn geometric construction for a regular heptagon. It starts with a circle. A horizontal chord AB is drawn at the bottom. Point C is on the circumference. Chord BC is drawn. Point D is on chord AC such that angle AOD is approximately 51.43 degrees. Chord CD is drawn. Point E is on chord BD such that angle COE is approximately 51.43 degrees. Chord CE is drawn. Point F is on chord DE such that angle DOF is approximately 51.43 degrees. Chord CF is drawn. Point G is on chord EF such that angle COG is approximately 51.43 degrees. Chord AG is drawn, completing the heptagon. Construction arcs and points are labeled with numbers 1 through 7.</p>	<p>A hand-drawn geometric construction for a regular heptagon. It starts with a circle. A horizontal chord AB is drawn at the bottom. Point C is on the circumference. Chord BC is drawn. Point D is on chord AC such that angle AOD is approximately 51.43 degrees. Chord CD is drawn. Point E is on chord BD such that angle COE is approximately 51.43 degrees. Chord CE is drawn. Point F is on chord DE such that angle DOF is approximately 51.43 degrees. Chord CF is drawn. Point G is on chord EF such that angle COG is approximately 51.43 degrees. Chord AG is drawn, completing the heptagon. Construction arcs and points are labeled with letters A through G.</p>
Inscribe a regular Heptagon in circle (method 1)	Inscribe a regular Heptagon in circle (method 2)

Q.1 .c. Ans

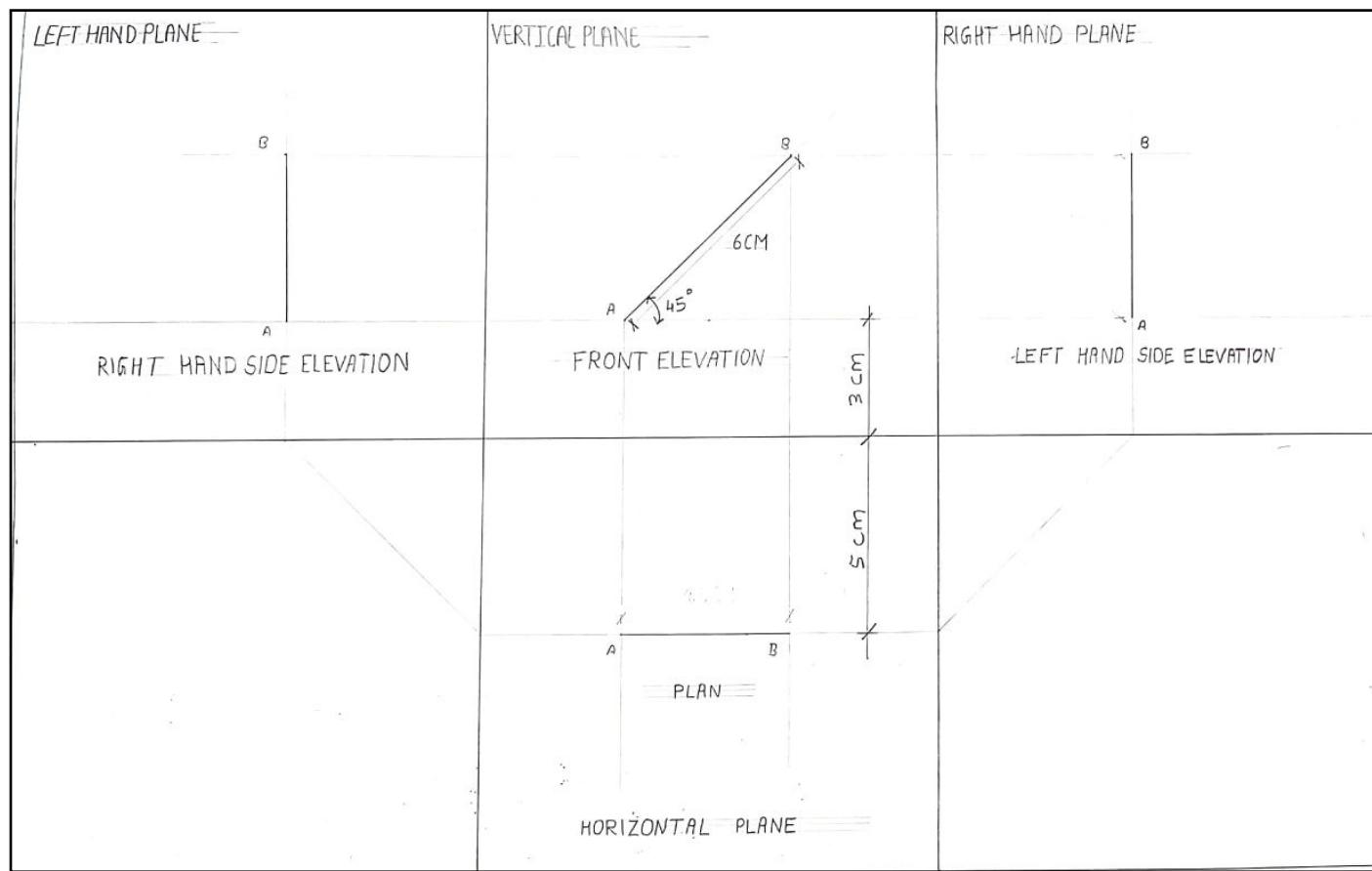
5 marks

<p>A hand-drawn geometric construction for dividing a line segment AB of 10 cm into seven equal parts. It uses a compass and straightedge. The segment is divided into seven equal segments of length 1.43 cm each. Construction arcs and points are labeled with numbers 1 through 7.</p>
Divide a straight line into equal seven parts.

OR

Q.1. Draw Orthographic Projections of a Line AB.

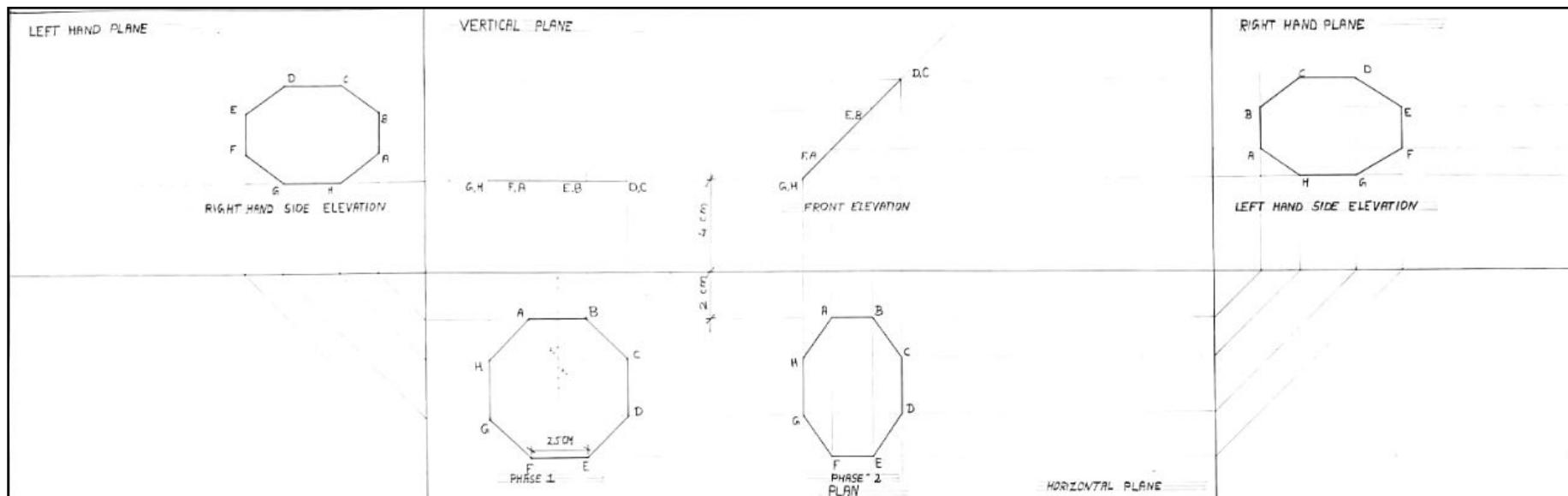
10 Marks



Q.2

Q.2.a. Ans

20 Marks

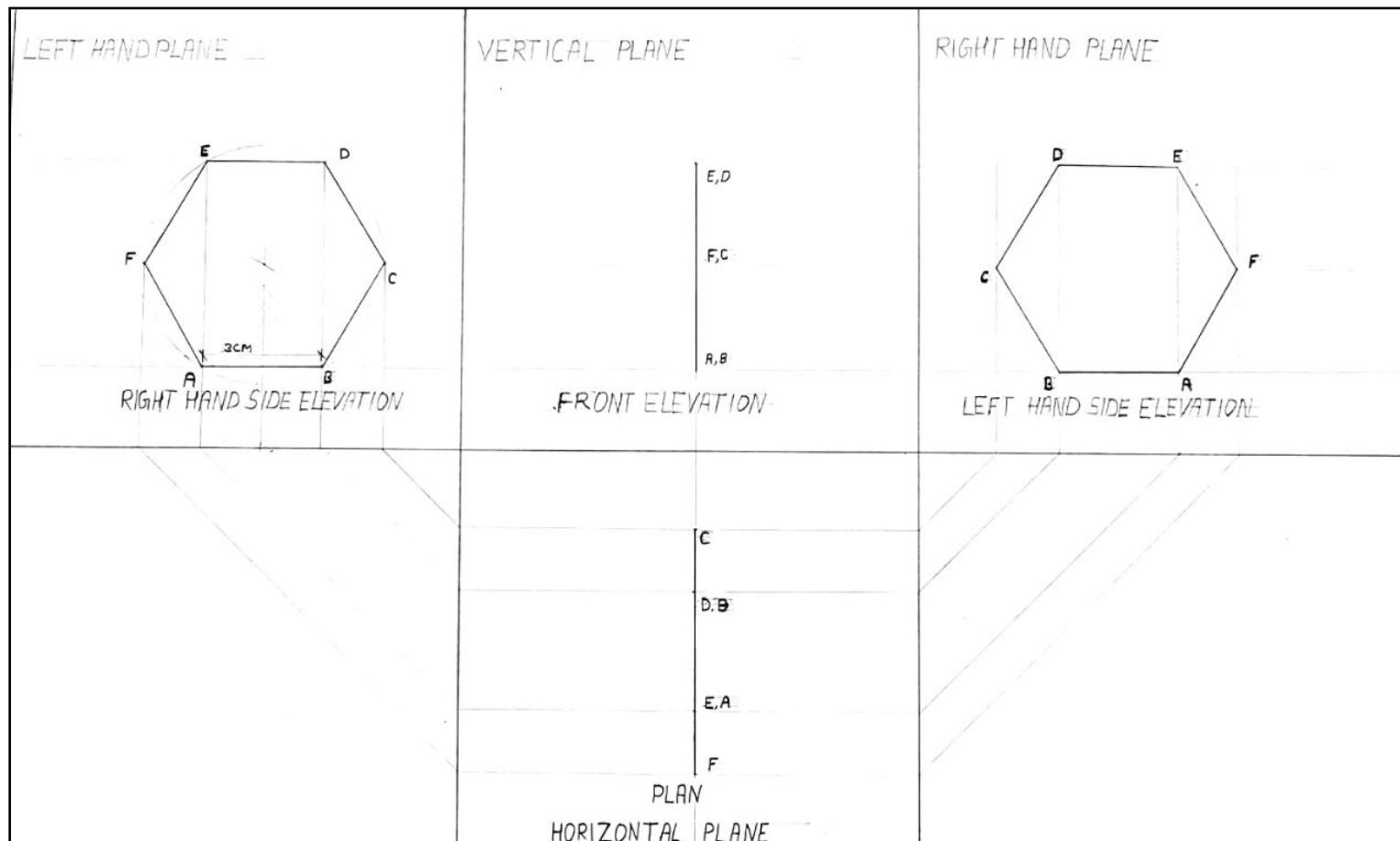


Orthographic projections of Octagonal Plane.

OR

Q.2.b. Ans

20 Marks

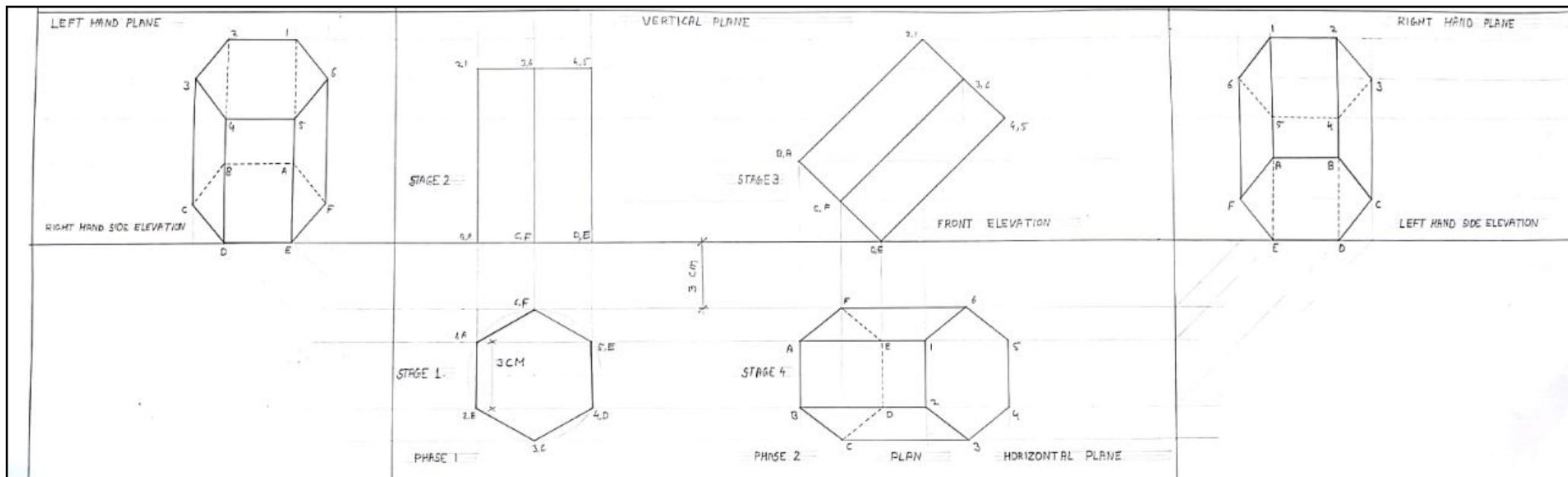


Orthographic projections of Hexagonal Plane.

Q.3

Q.3.a. Ans

20 Marks

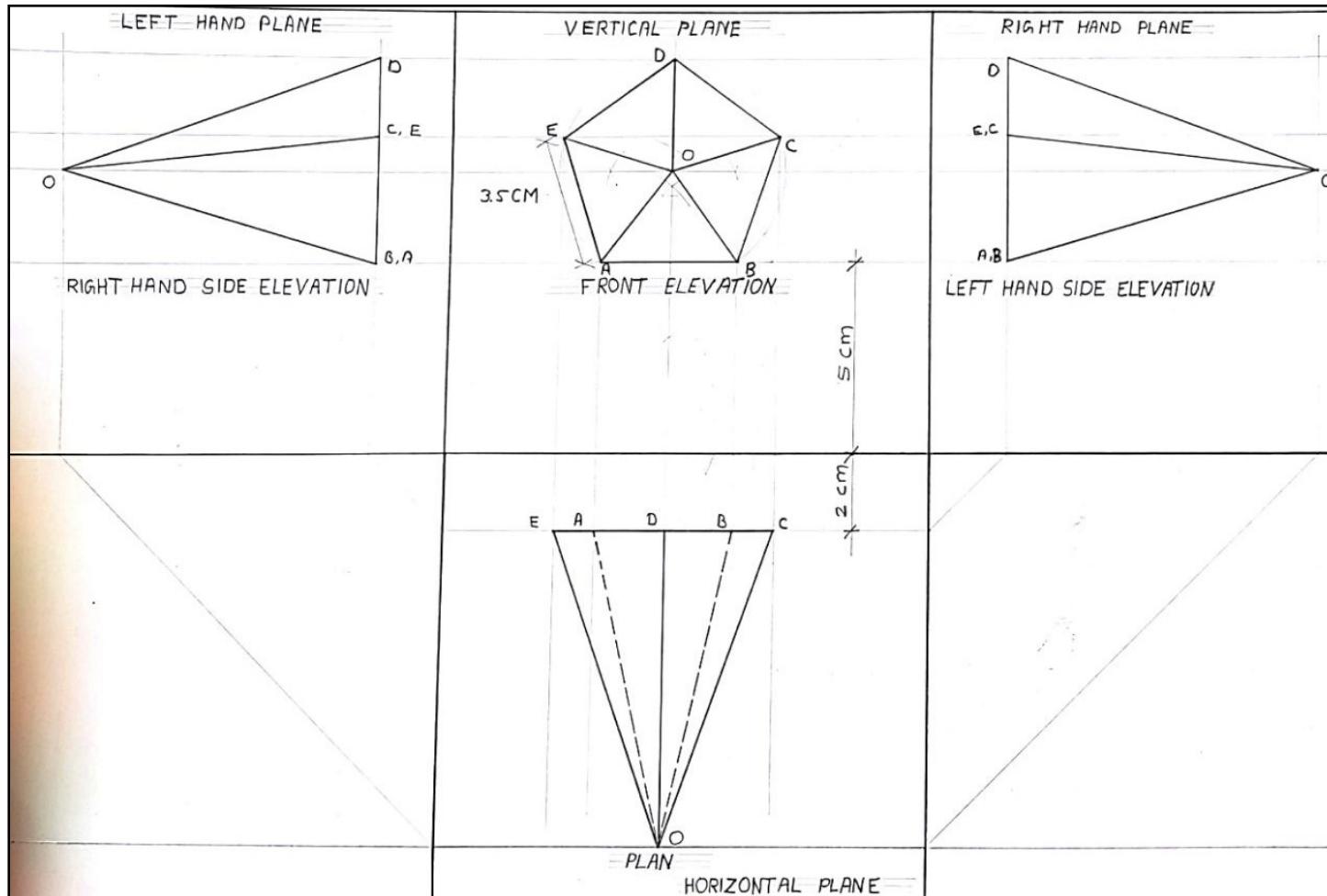


Orthographic projections of Hexagonal base Prism.

OR

Q.3.b. Ans

20 Marks



Orthographic projections of Pentagonal base Pyramid.