Q.1

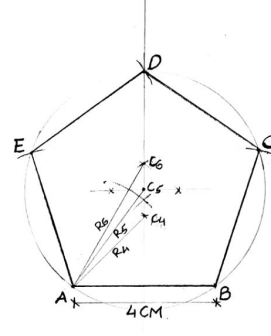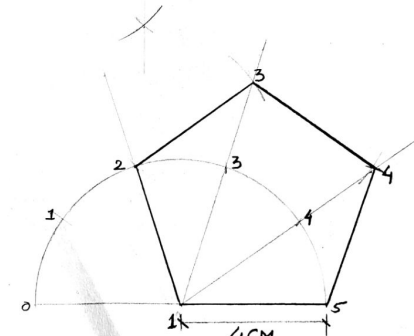**Q.1 .a. Ans**   **5 marks**

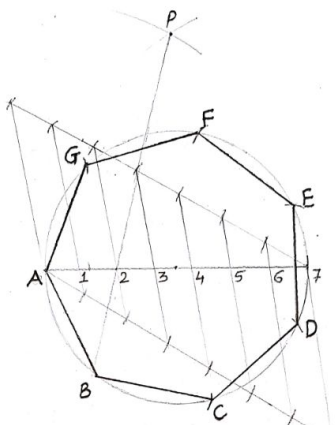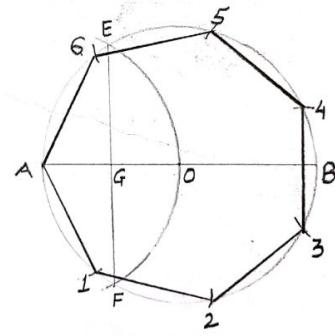|	
Construction of regular pentagon **(method 1)**	Construction of regular pentagon **(method 2)**

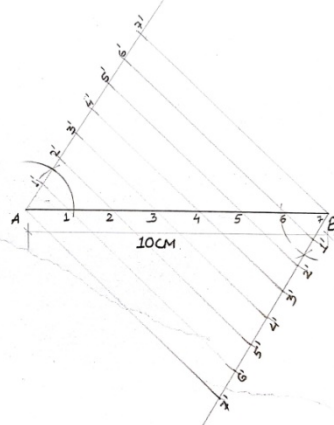**Q.1 .b. Ans**   **5 marks**

Inscribe a regular Heptagon in circle **(method 1)**	Inscribe a regular Heptagon in circle **(method 2)**

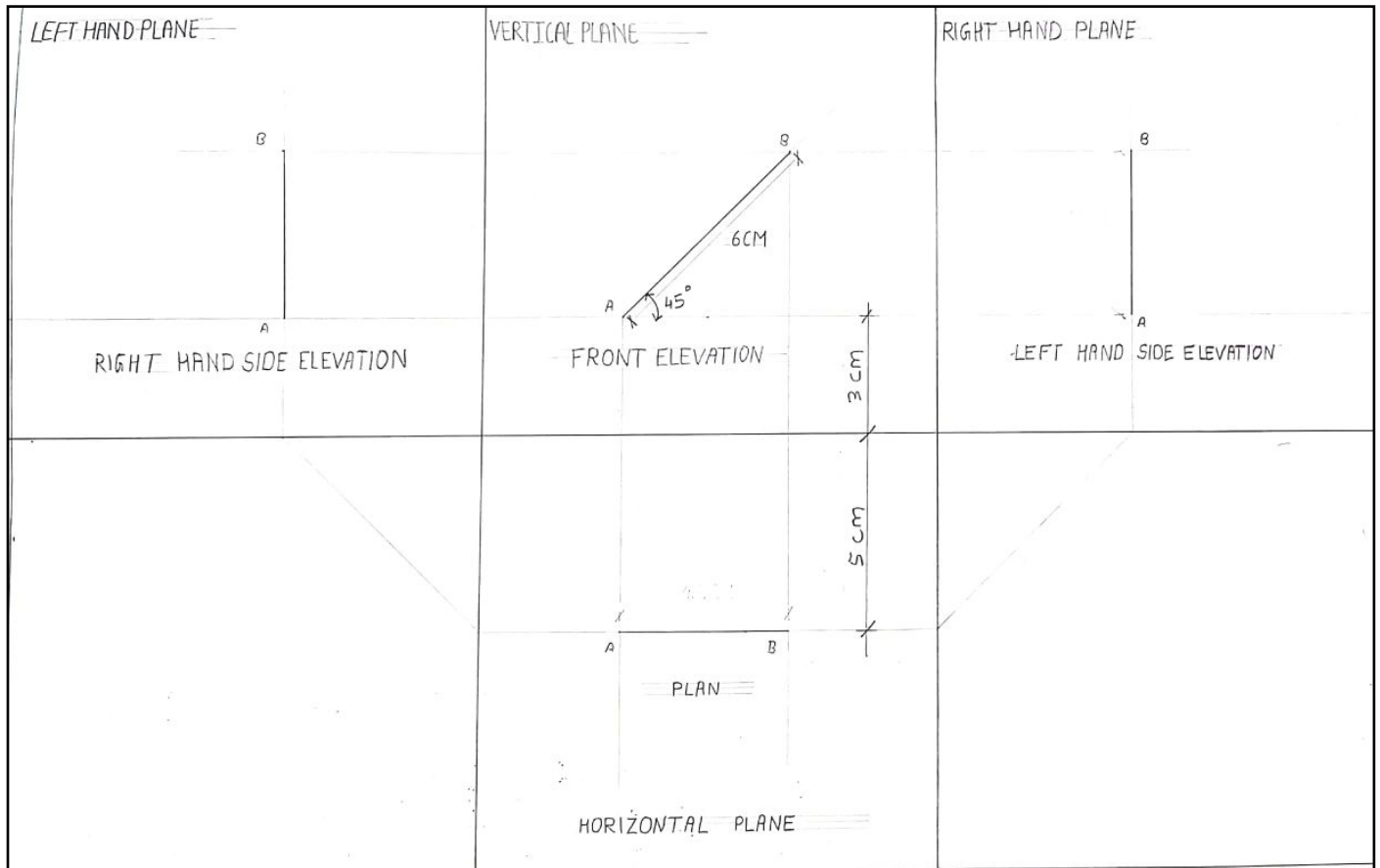**Q.1 .c. Ans**   **5 marks**

Divide a straight line into equal seven parts.

OR

Q.1. Draw Orthographic Projections of a Line AB.   10 Marks

LEFT HAND PLANE	VERTICAL PLANE	RIGHT HAND PLANE
B ⌐ A RIGHT HAND SIDE ELEVATION	B 6CM A 45° FRONT ELEVATION 3 cm	B ⌐ A LEFT HAND SIDE ELEVATION
	5 cm A ──── B PLAN HORIZONTAL PLANE	

Q.2

20 Marks

LEFT HAND PLANE

D C
E
B
F
A
G H
RIGHT HAND SIDE ELEVATION

VERTICAL PLANE

G,H F,A E,B D,C

A B
H C
G D
F E
PHASE 1
2.5CM

FRONT ELEVATION

D,C
E,B
F,A
G,H

A B
H C
G D
F E
PHASE 2
PLAN

RIGHT HAND PLANE

C D
B E
A F
H G
LEFT HAND SIDE ELEVATION

HORIZONTAL PLANE

Orthographic projections of Octagonal Plane.

OR

LEFT HAND PLANE

VERTICAL PLANE

RIGHT HAND PLANE

E D

F C

.3CM

A B

RIGHT HAND SIDE ELEVATION

E,D

F,C

A,B

.FRONT ELEVATION

D E

C F

B A

LEFT HAND SIDE ELEVATION

C

D,B
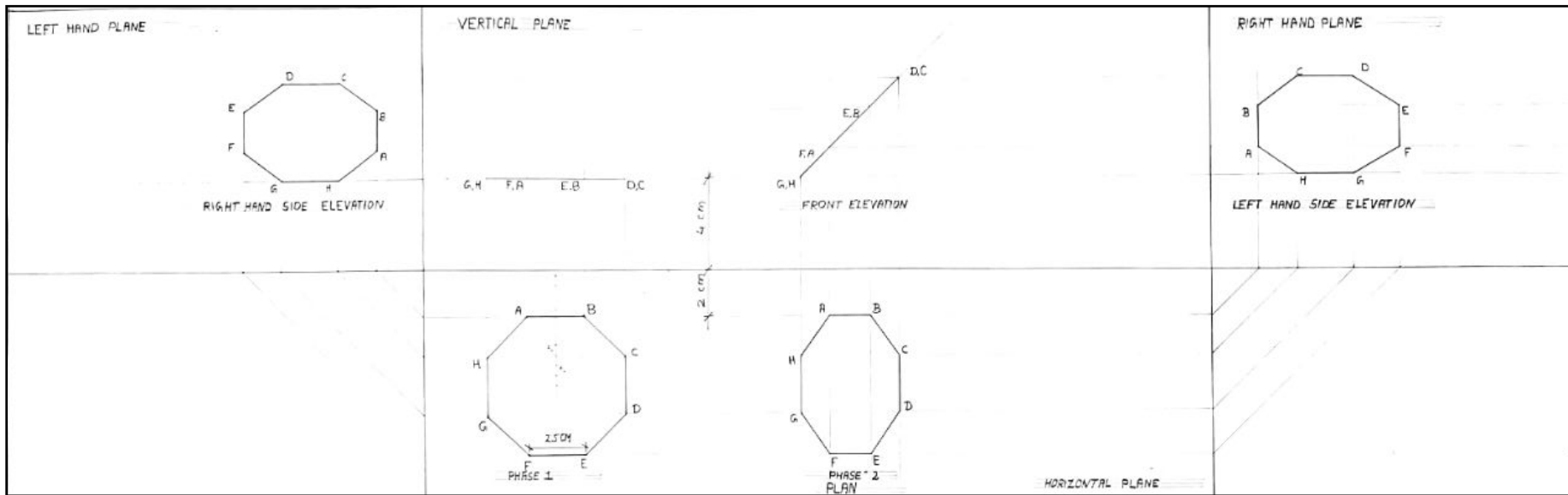
E,A

F

PLAN
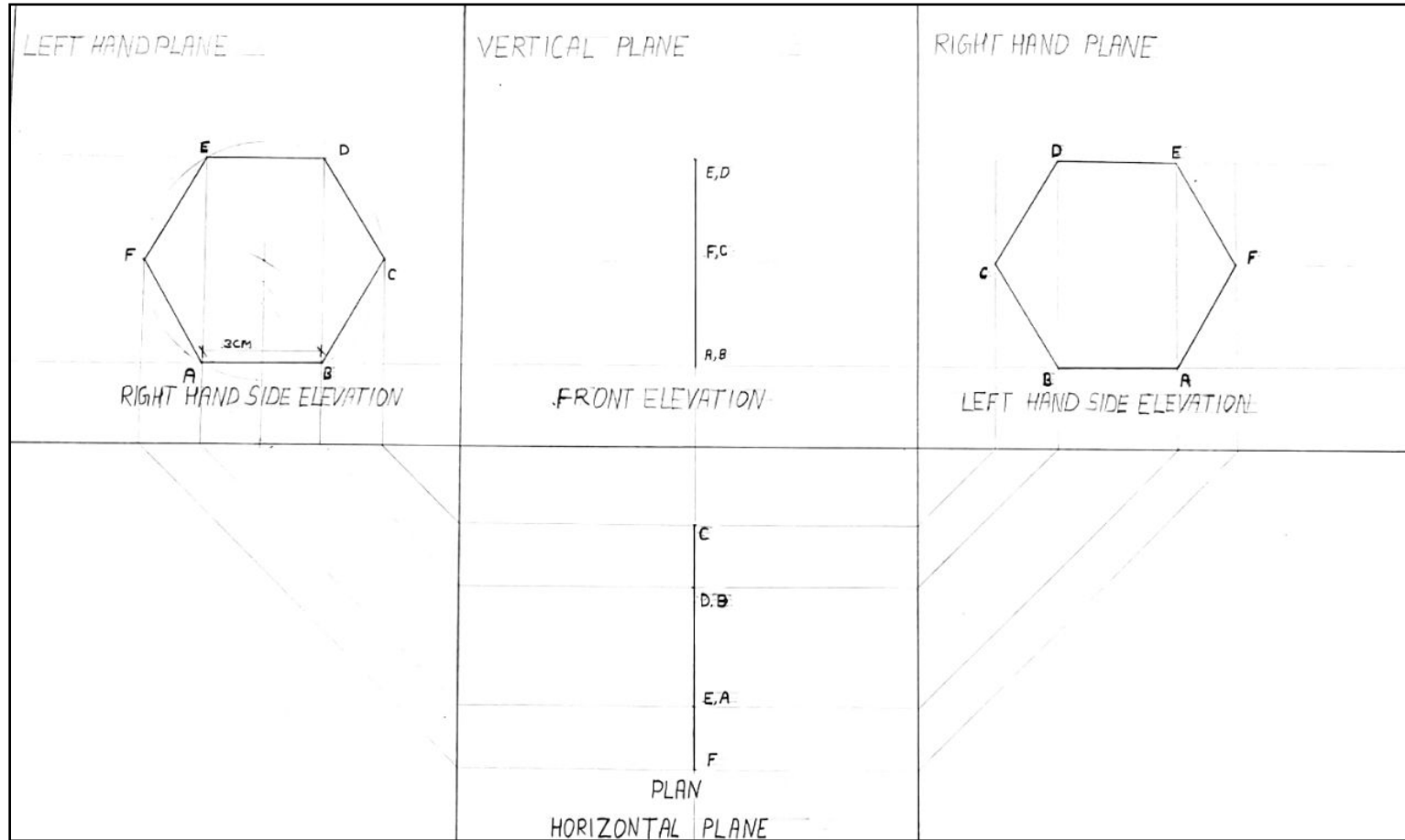
HORIZONTAL PLANE

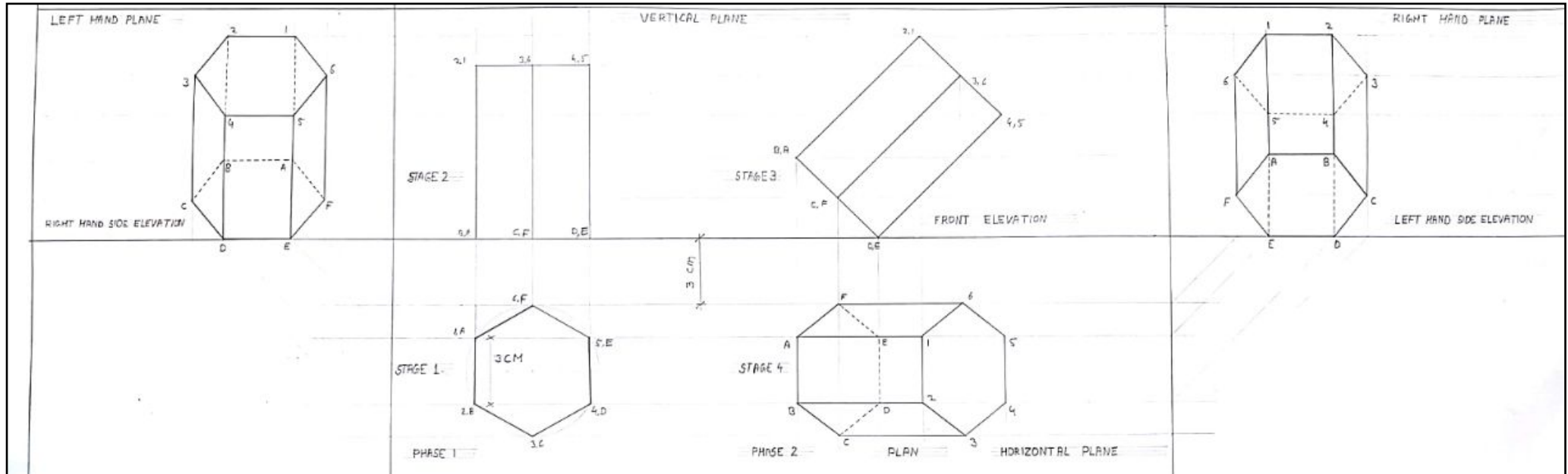Orthographic projections of Hexagonal Plane.

Q.3

Q.3.a. Ans   **20 Marks**
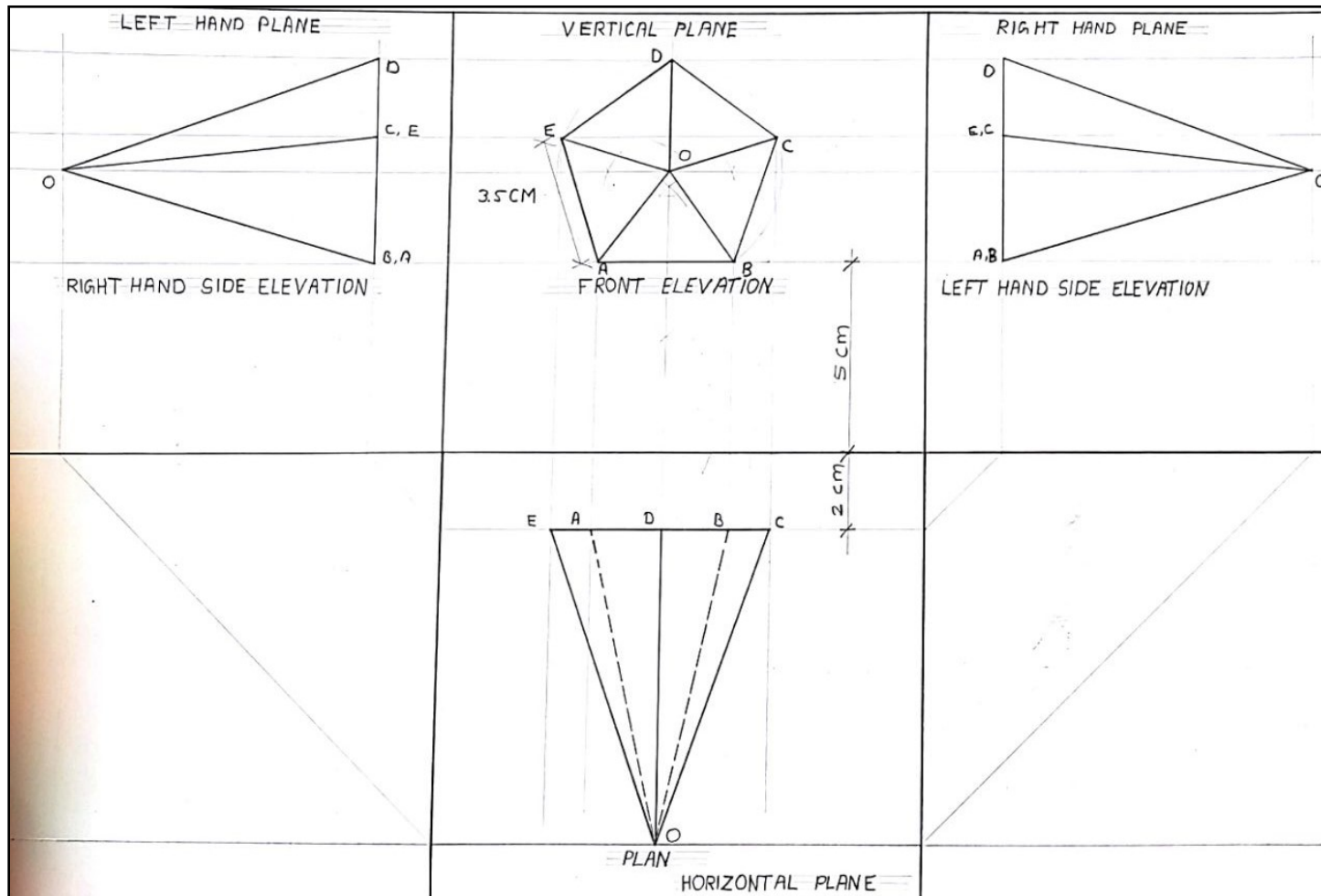

Orthographic projections of Hexagonal base Prism.

OR

LEFT HAND PLANE

VERTICAL PLANE

RIGHT HAND PLANE

D

D

D

C, E

E

C

E,C

O

O

3.5CM

O

O

B,A

A B

A,B

RIGHT HAND SIDE ELEVATION

FRONT ELEVATION

LEFT HAND SIDE ELEVATION

5 cm

E   A   D   B   C

2 cm

O

PLAN

HORIZONTAL PLANE

Orthographic projections of Pentagonal base Pyramid.