Subject: Revision (15) 2005-Engineering Graphics.

2005 B

Key

I.

1. A0- 841 X 1189 mm

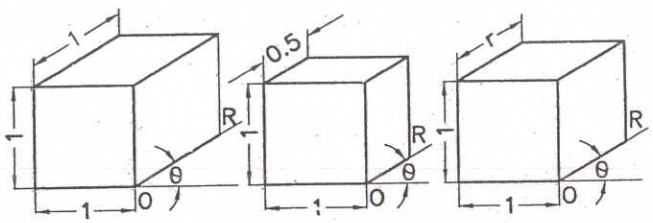
   A1- 594 X 841 mm

   A2- 420 X 594 mm

   A3- 297 X 420 mm

   A4- 210 X 297 mm. (½ mark each for any 4 right answer).

2. Conic section is defined as the locus of a point moving in such a way that the ratio of its distance from a fixed point to a fixed line is always constant.
3. Cycloid is a curve generated by a fixed point on the circumference of a circle which rolls without slipping along a fixed straight line.
4. Oblique Projections.

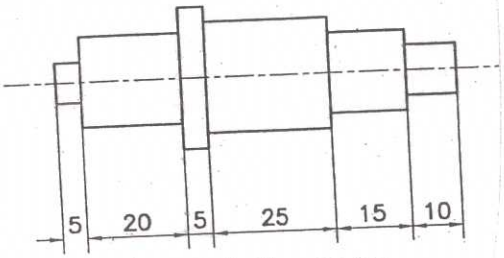


(i) CAVALIER (1:1:1) (ii) CABINET (1:1:0.5) (iii) GENERAL (1:1:r) (r≠1 or 0.5)

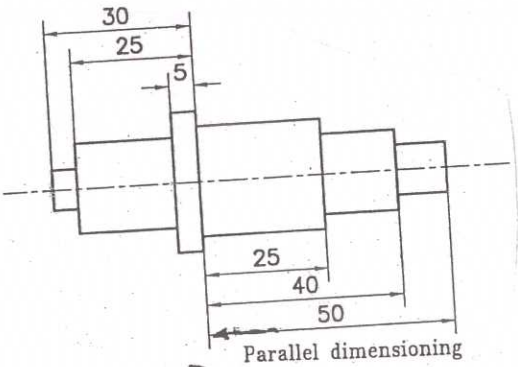
5. Centre, Radius option, Centre, diameter option, 2P or 2 point option, 3P or 3 point option, TTR or tangent, tangent, radius option; TTT or tangent, tangent, tangent option.(any 4 points X ½= 2 mark). **(5 X 2= 10)**

PART-B

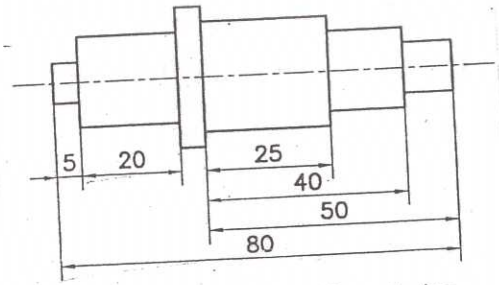
II (1)



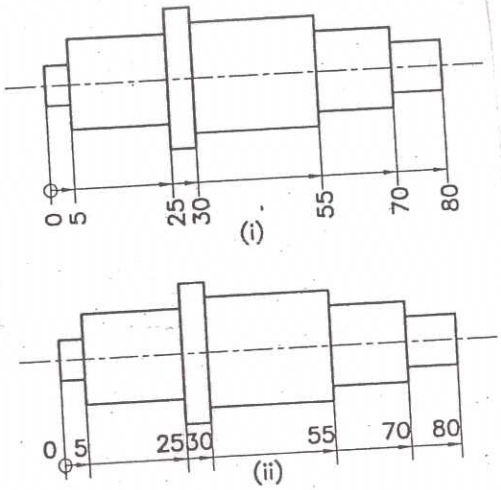
1. Chain dimensioning



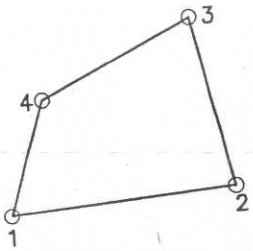
2. Parallel dimensioning



3. Combined dimensioning (Chain and parallel)



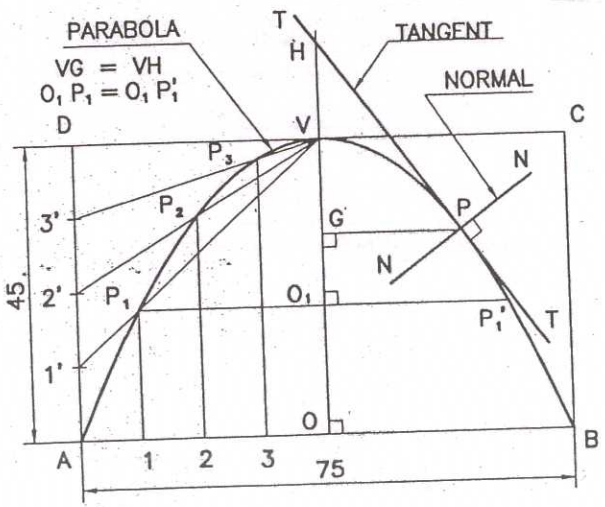
4. Superimposing running dimensioning in one direction



	X	Y
1	10	20
2	70	25
3	60	70
4	20	50

5. Dimensioning by co-ordinates

II (2)



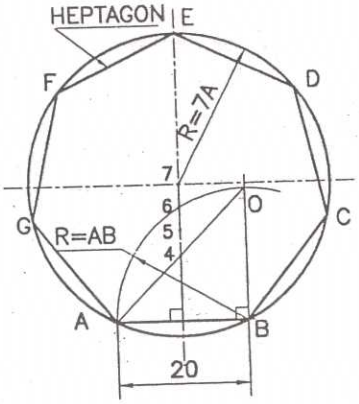
Name : Parabola.

Construction with : 8
dimension : 1
Name : 1

10

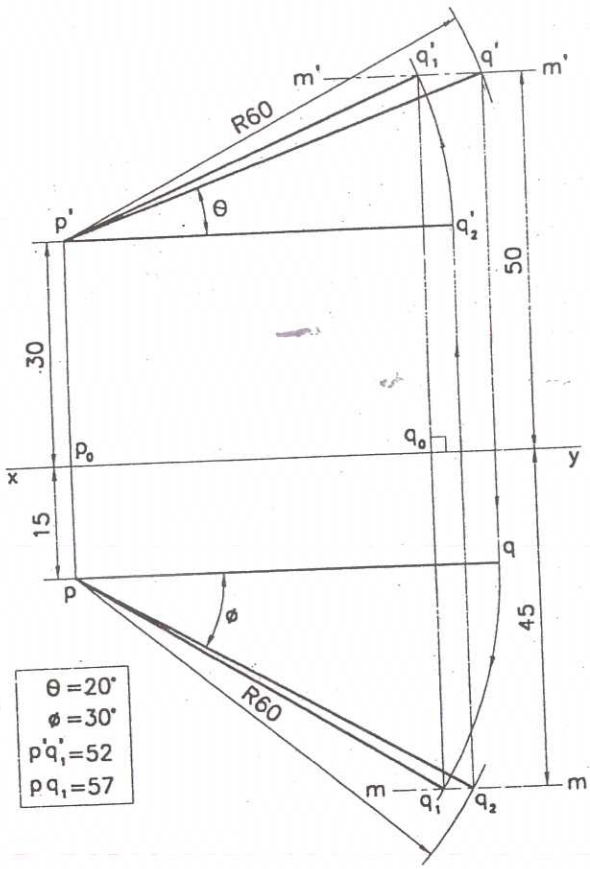
2

II ③



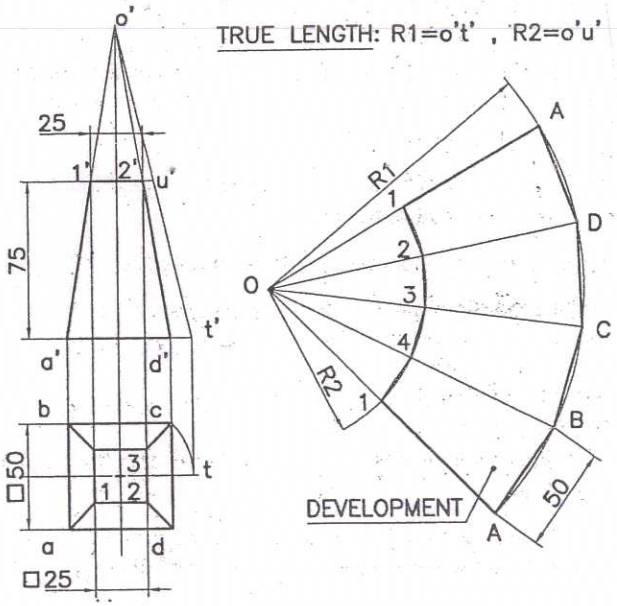
Construction = 8
Dimension = 1
Neatness = 1
10

II ④



Construction : 6
θ : 1
ϕ : 1
Length of front view : 1
Length of top view : 1
10

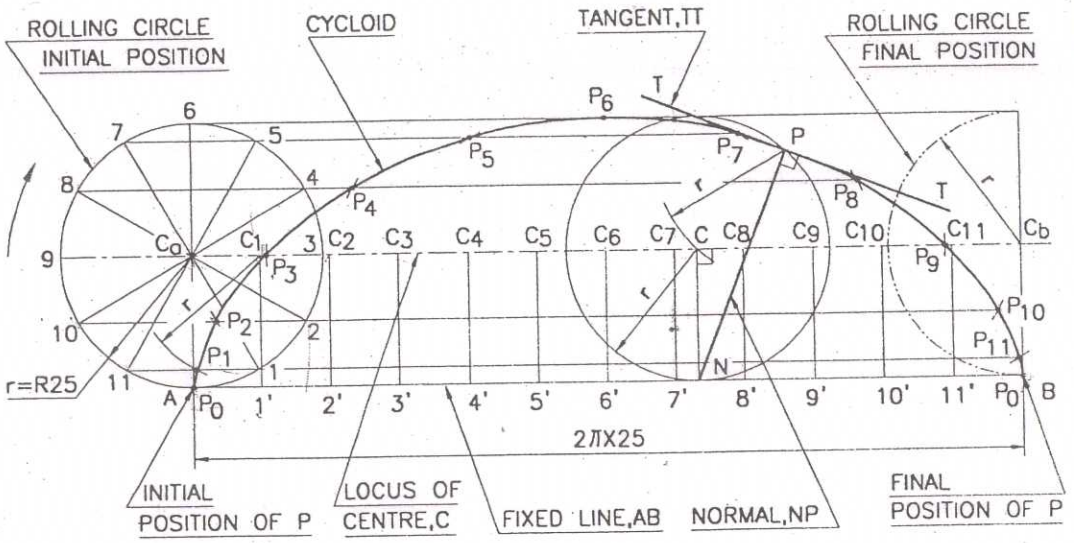
II ⑤



Front view = 3
Top view = 2
Development = 4
Dimension = 1
10

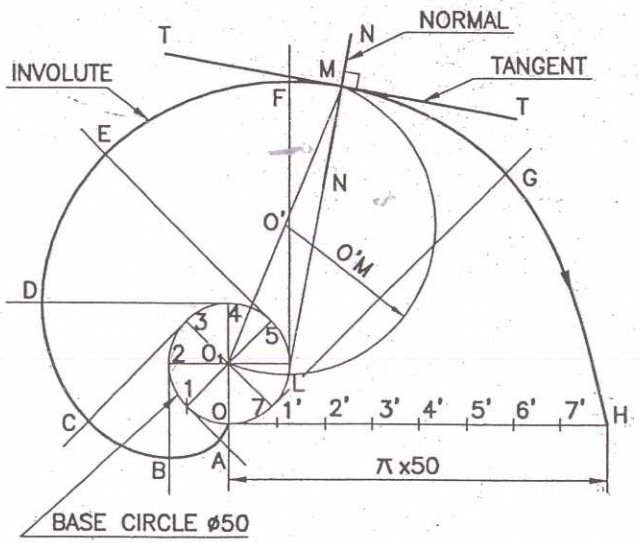
3

II (6)



Construction = 8
Smooth curve = 1
Dimension = 1
10

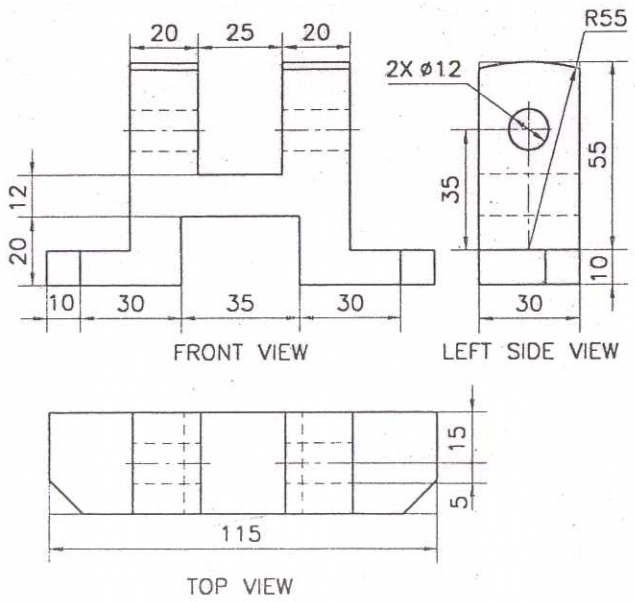
II (7)



Construction = 8
Smooth curve = 1
Dimension = 1
10

PART-C

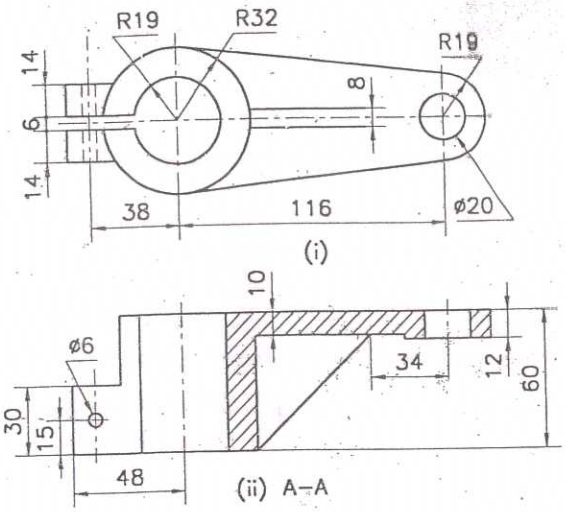
III (1)



Front View = 6
Top View = 6
Left side view = 6
Dimension & Neatness = 2
20

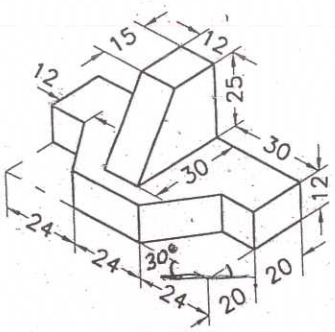
4

III (2)



Front View = 8
Sectional View = 10
Dimension,
Neatness = 2
20

III (3)



ISOMETRIC VIEW

Marking 30° angles = 1
Dimension,
Neatness = 2
Isometric View = 17
20

5