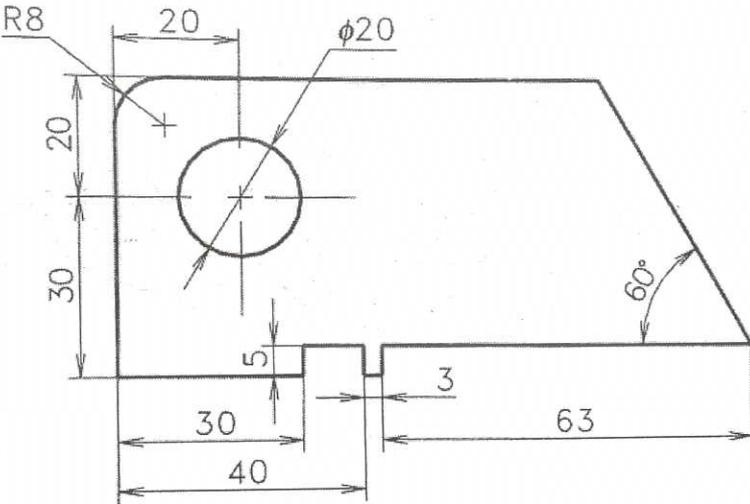


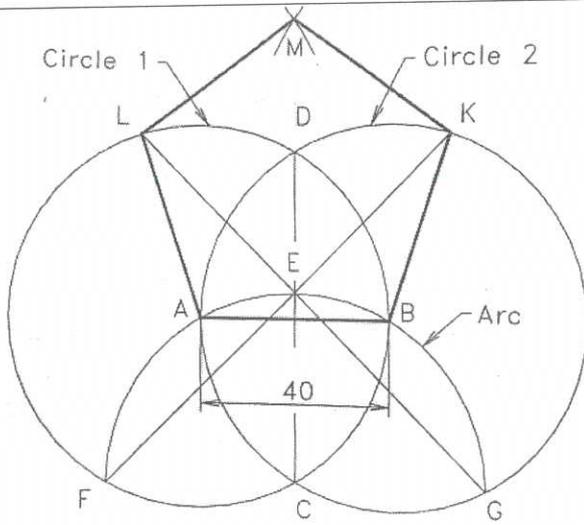
2005A(15) AND 2005B(15)

SECOND SEMESTER DIPLOMA EXAMINATION IN CIVIL ENGINEERING

SCHEME OF VALUATION

(Scoring Indicators)

Revision: 2015 Course Code:2005				
Course Title: ENGINEERING GRAPHICS				
Question Number	Scoring Indicator	Split-up score	Sub Total	Total
Part- A				
I- 1)	The process of providing information like distance, height, width, depth, radius of various drawing elements in a technical drawing.	2	2	2
I- 2)	The eccentricity of a conic is defined as ratio of distance of any of its point to its focus to perpendicular distance to directrix.	2	2	2
I- 3)	Vertical Projection plane which is perpendicular to both principal horizontal and vertical plane in order to obtain side views of objects.	2	2	2
I- 4)	The process of opening of all surfaces of a three dimensional object onto a plane is called development.	2	2	2
I- 5)	Line, polyline, circle, polygon, erase, trim, break, chamfer etc.	2	2	2
	Any four	2	2	2
II		4	10	10
	Redrawing the figure – 4 marks For any six correction- 1 mark each	6	10	10
III	Construction of polygon- 6 marks Accuracy of sides and interior angles-2 mark Dimensioning – 1 mark Neatness – 1mark			

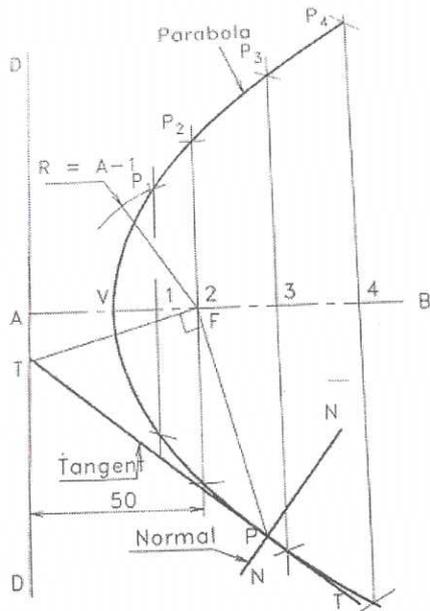


IV

10

10

10



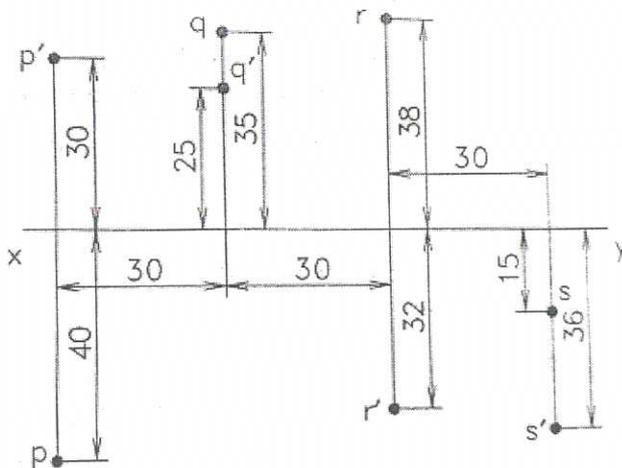
V

10

10

10

Overall construction of parabola – 5 marks
 Accuracy – 2 marks
 Neatness – 2 marks
 Tangent and normal – 2 marks



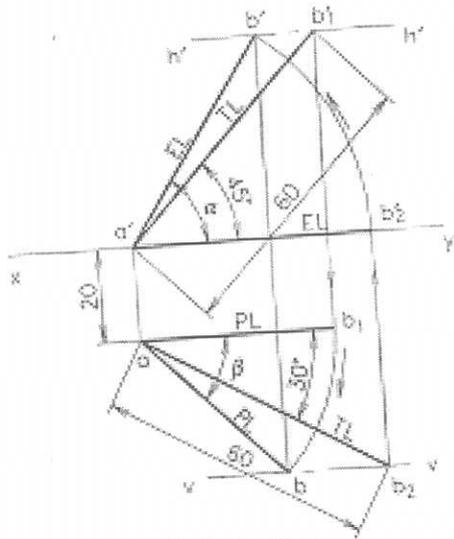
VI

10

10

10

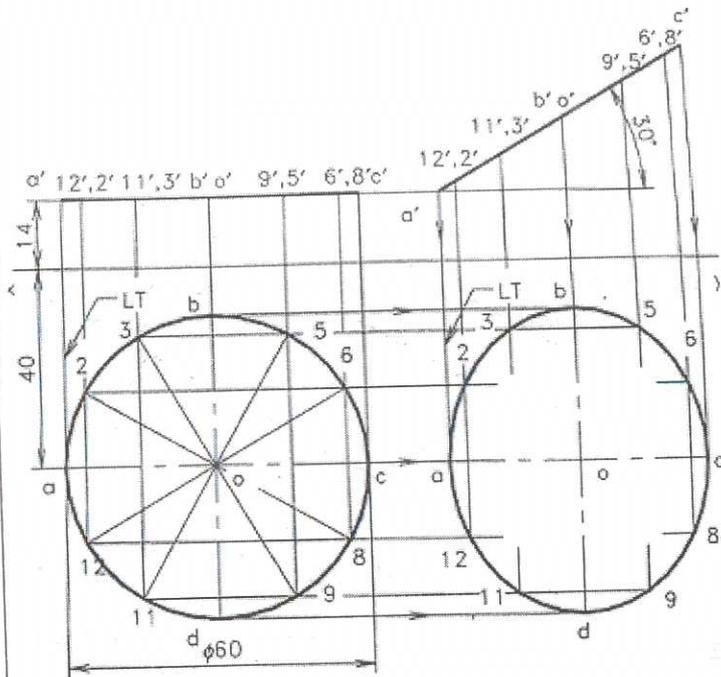
2.5 mark each for all four points.



10 10 10

VII

Apparent inclination in front view $\alpha = 55^\circ$
 Apparent inclination in top view $\beta = 45^\circ$
 Accuracy of figure – 5 marks
 Proper naming and dimensioning- 2 marks
 Neatness – 1 mark
 Apparent angles – 1 mark each

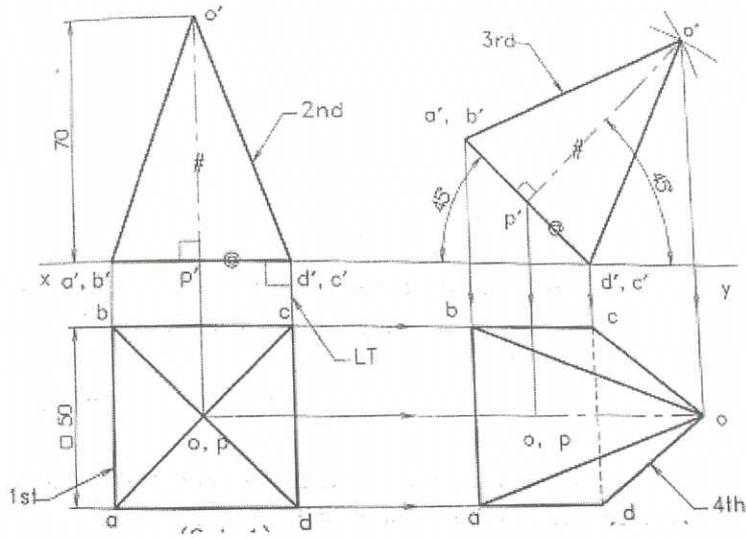


10 10 10

VIII

Accuracy of figure – 7marks
 Proper naming and dimensioning- 2 marks
 Neatness – 1 mark

IX



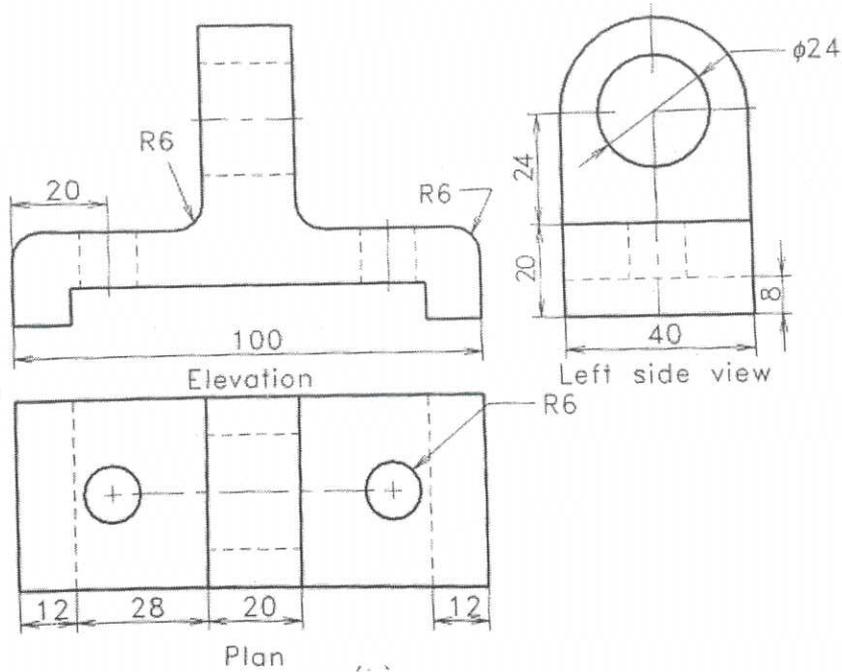
10

10

10

Accuracy of figure – 7marks
 Proper naming and dimensioning- 2 marks
 Neatness – 1 mark

X



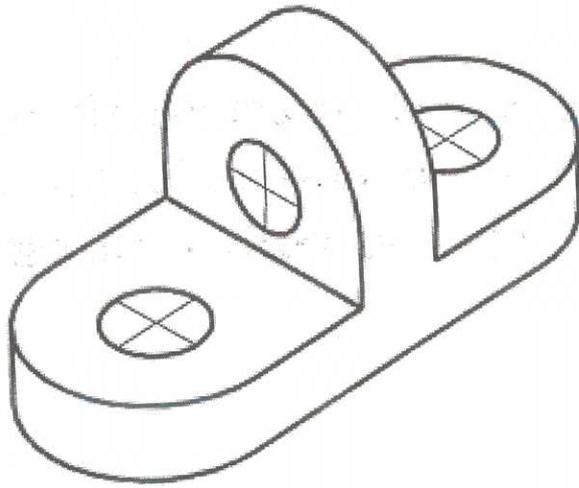
20

20

20

Accuracy of views- 5 marks each.
 Dimensioning of views- 1 mark each
 Neatness – 2 marks

XI



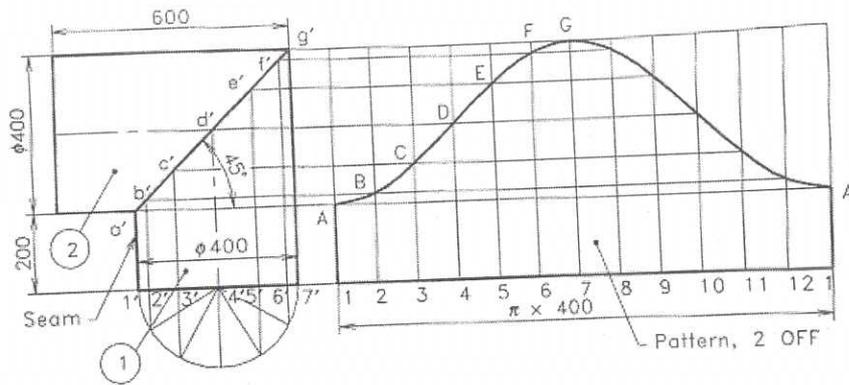
20

20

20

Accuracy of figure – 18 marks

Neatness – 2 marks.



Accuracy -15 marks

Marking of points – 3 marks

Neatness – 2 marks.

SCHEME OF VALUATION (Scoring Indicators)

Revision : 2015 Course Code : TED(15) 2005
Course Title : Engineering Graphics

Question No.	Scoring Indicators	Split up score	Sub Total	Total
Part A I.1.	(i) Projection line (ii) Dimension line (iii) Dimension line termination (iv) Origin of dimension (v) Dimension (vi) Arrow head (vii) Leader line, etc			
Part A I.2.	(any four points) The ratio of the distance of a moving point from focus to the distance of the same point from directrix is called eccentricity (e) for ellipse, $e < 1$ for parabola, $e = 1$ for hyperbola $e > 1$.	2	2	
Part A I.3.	The process of unfolding all the surfaces of an object on a plane is called development of surfaces.	2	2	

Part A

I.4. Auxiliary views are used for representing true shape of the inclined surfaces of objects. This is the view obtained on the

2

2

Part A

Auxiliary Inclined plane.

I.5. Auto CAD
Electrical CAD
3DS-MAX
STAAD
PRO-Engineers
IDEAS

Mechanical Desk Top, etc.

(any, four)

2

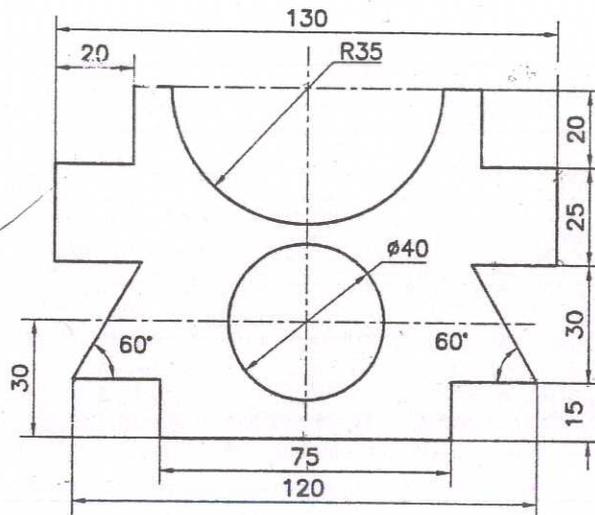
2

10

Part B

II

PART B



Drawing the figure
Dimensioning as per BIS

5

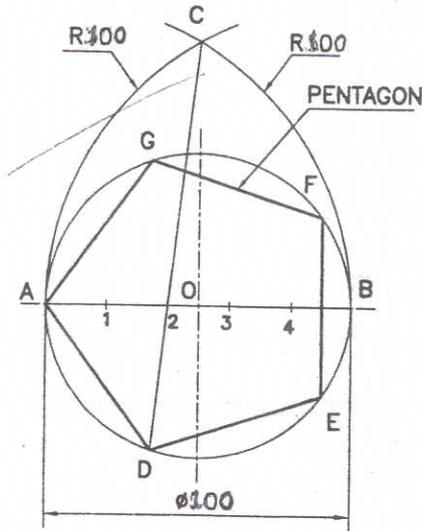
5

10

10

Part B

III



Inscribing pentagon
Accuracy and dimensioning

8

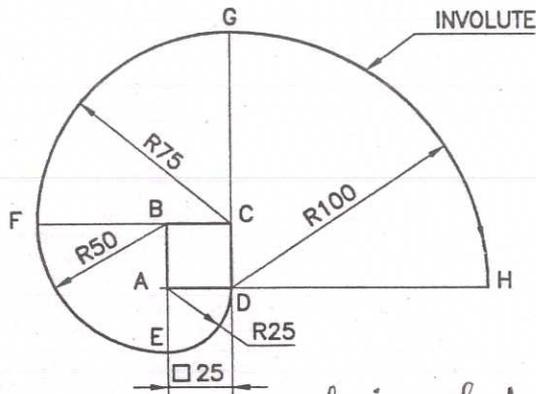
2

10

10

Part B

IV



Drawing square and involute
Accuracy and dimensioning

8

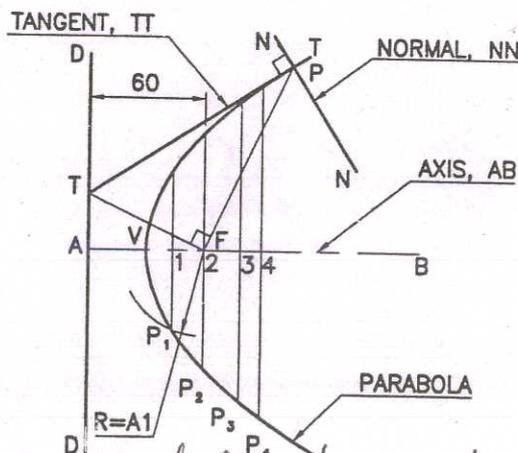
2

10

10

Part B

V



Drawing parabola, tangent & normal
Accuracy and dimensioning

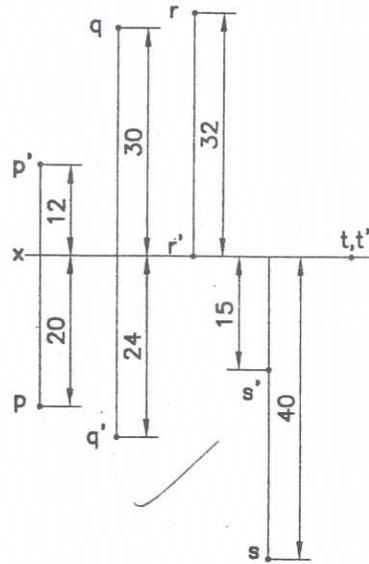
8

2

10

10

Part B
VI



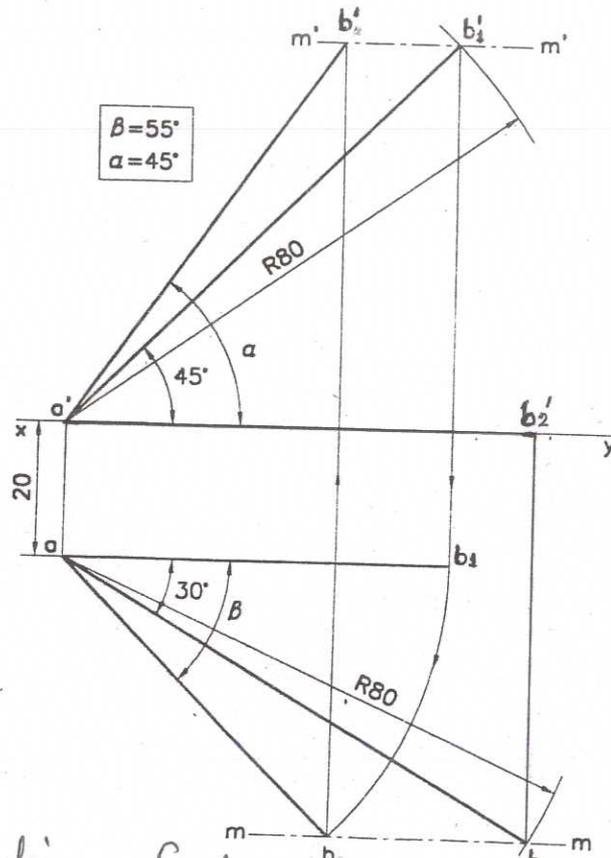
Projection of points (5x2)

10

10

10

Part B
VII



Projection of elevation and plan
Accuracy and dimensioning

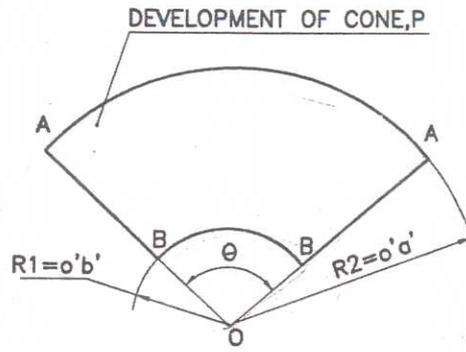
8

2

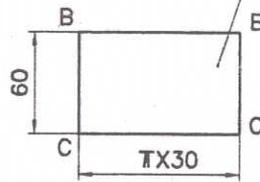
10

10

Part B
VIII



DEVELOPMENT OF CYLINDER, Q



Calculation of $\theta' = \frac{360 \times R}{l} \approx 105^\circ$

Development of $l = 137 \text{ mm}$

Development of part P

Development of part Q

Dimensioning and accuracy

2

4

3

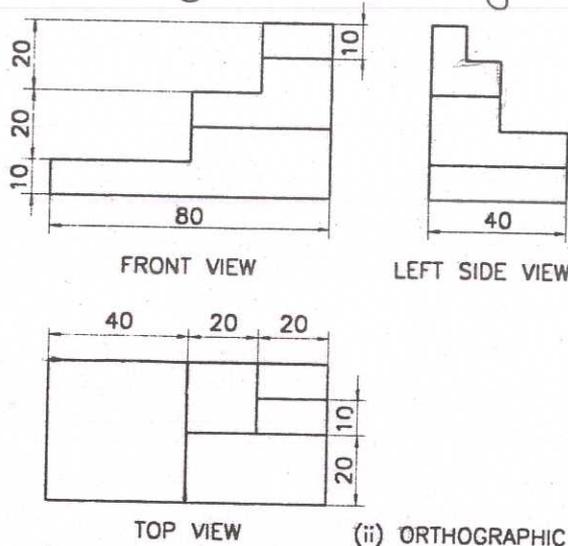
1

10

10

Part C

IX



Drawing the elevation

Drawing the plan

Drawing the side view

Accuracy of projection & dimensioning

6

6

6

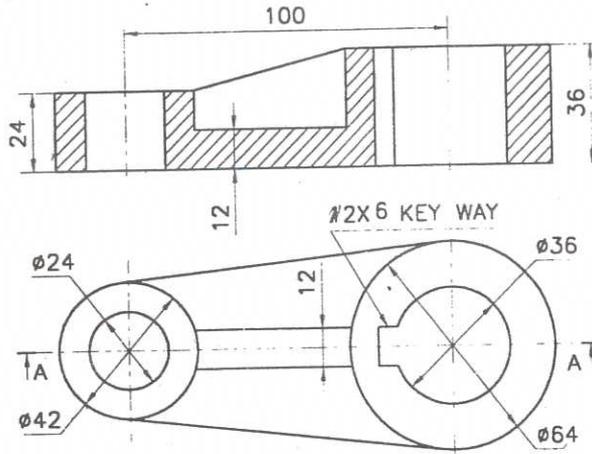
2

20

20

Part C

X



Full sectional elevation
Plan

Accuracy and dimensioning

10

8

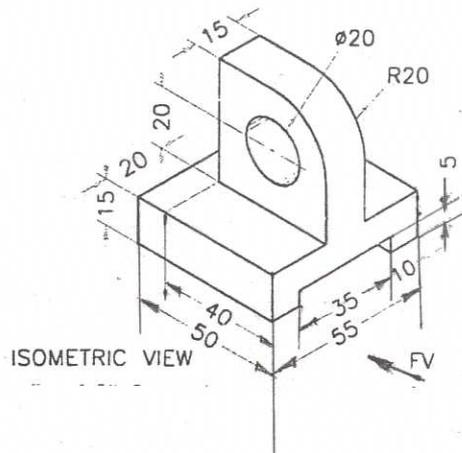
2

20

20

Part C

XI



Drawing Isometric view
Accuracy and dimensioning

17

3

20

20