

Birla Institute of Technology and Science, Pilani
Dubai Campus

Dubai International Academic City, Dubai.
I Year – I Semester 2011– 2012

A1

Comprehensive Exam

Course No.	:	BITS F110
Course Title	:	Engineering Graphics
Nature of Exam	:	Closed Book
Weightage	:	40 %
Duration	:	90 minutes
Date	:	12 January, 2012

Instructions

1. Answer all questions
 2. Create a title block
 3. Save the drawing as separate file for each question.
 4. Save your drawings every 5 minutes
 5. Use first angle projection
 6. Draw to 1:1 scale
 7. Use 600,400 limits for both the questions
-

1. A square pyramid of base 60 mm and height 100 mm is resting on the ground with two of its base sides perpendicular to VP. The pyramid is cut by a cutting plane inclined 30° to HP and perpendicular to VP. The cutting plane cuts the axis of the pyramid 45mm from the base. Draw the following;

- Projection and Sectional view of the Pyramid
- True shape of the section and
- Lateral surface development of the truncated Pyramid.

(50 Marks)

2. The line AB has its end A in HP and 120mm in front of VP. Its front view is inclined at 45° to XY line and has a length of 160mm. The other end B is in VP. Draw its projections.

(30 Marks)

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1. A Pentagonal Prism of base side 50 mm and height 100mm is resting on its base on ground with one of its vertical faces inclined at 30° to VP. The prism is cut by a cutting plane inclined at 30° to HP and passing through the axis 40mm from the base. Draw the following;

- Projection and Sectional view of the Prism
- True shape of the section and
- Lateral surface development of the truncated Prism

(50 Marks)

2. The top view and front view of a line AB measures 110mm and 130mm respectively. The line is inclined 35° to VP. The end A is 30 mm above HP and 40 mm in front of VP. The other end B is in the first quadrant. Draw the projections.

(30 Marks)

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A2

Comprehensive Exam

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 5. Use first angle projection
 6. Draw to 1:1 scale
 7. Use 600,400 limits for both the questions
-

1. A Cone of base diameter 100mm and height 120mm is resting on the ground on its base. The cone is cut by a cutting plane inclined 35° to HP and perpendicular to VP. The cutting plane cuts the axis of the cone 55mm from the base. Draw the following;

- Projection and Sectional view of the Cone
- True shape of the section and
- Lateral surface development of the truncated Cone

(50 Marks)

2. The front view of a line TS measures 130mm long and makes 40° to XY line. The point T is in HP and 70mm in front of VP. The line is inclined 40° to VP. Draw its projections.

(30 Marks)

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 7. Use 600,400 limits for both the questions
-

1. A Pentagonal Pyramid of base side 50mm and height 90mm is resting on the ground with one of its base sides perpendicular to VP. The pyramid is cut by a cutting plane inclined 35° to HP and perpendicular to VP. The cutting plane cuts the axis of the pyramid 40mm from the base. Draw the following;

- Projection and Sectional view of the Pyramid
- True shape of the section and
- Lateral surface development of the truncated Pyramid

(50 Marks)

2. Line AB 160mm long has one of its ends A is 120mm in front of VP and 20mm above HP. The top view of the line is 100mm. The other end of the line is 40mm in front of VP and above HP. Draw its Projections.

(30 Marks)

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Comprehensive Exam

A3

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Duration	:	90 minutes
Date	:	12 January, 2012

Instructions

1. Answer all questions
 2. Create a title block
 3. Save the drawing as separate file for each question.
 4. Save your drawings every 5 minutes
 5. Use first angle projection
 6. Draw to 1:1 scale
 7. Use 600,400 limits for both the questions
-

1. A Hexagonal Pyramid of base side 50mm and height 100mm is resting on HP with two of its base sides perpendicular to VP. The pyramid is cut by a cutting plane inclined at 30° to HP and passing through the axis of the pyramid by 40mm from the base. Draw the following;

- Projection and Sectional view of the Pyramid
- True Shape of the section and
- Lateral surface development of the truncated Pyramid

(50 Marks)

2. The end A of a line AB is 30mm in front of VP and 40 mm above HP. The line is inclined at 30° to HP and the front view of the line is 45° to XY. The top view is 150mm long. Draw its projections.

(30 Marks)

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 5. Use first angle projection
 6. Draw to 1:1 scale
 7. Use 600,400 limits for both the questions
-

1. A cone of base diameter 100mm and height 130mm is resting on ground on its base. It is cut by a cutting plane inclined 30° to HP and perpendicular to VP. The cutting plane cuts the axis of the cone by 50mm from the base. Draw the following;

- Projection and Sectional view of the Cone
- True shape of the section and
- Lateral surface development of the truncated Cone

(50 Marks)

2. A line CD inclined 45° to VP, with its end C 30mm in front of VP and 30mm above HP. The distance between the projectors is 120 mm with the end D 130 mm above HP and in front of VP. Draw the projections.

(30 Marks)

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TEST- I

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Duration	:	60 minutes
Date	:	27 October 2011

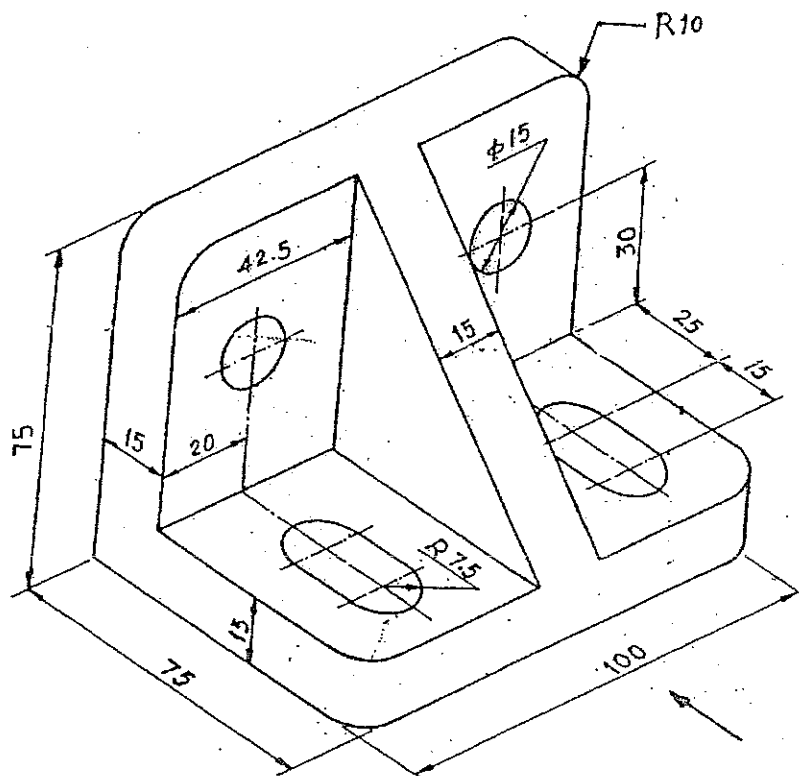
Instructions

1. Answer all questions
2. Create a title block
3. Save the drawing as separate file for each question.
4. Save your drawings every 5 minutes
5. Use first angle projection
6. Draw to 1:1 scale

Questions

1. Draw the following views for the given object & dimension them
 - a) Front view
 - b) Top view

25 Marks



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TEST-I

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Nature of Exam : Closed Book
Weightage : 20 %
Duration : 60 minutes
Date : 27 October 2011

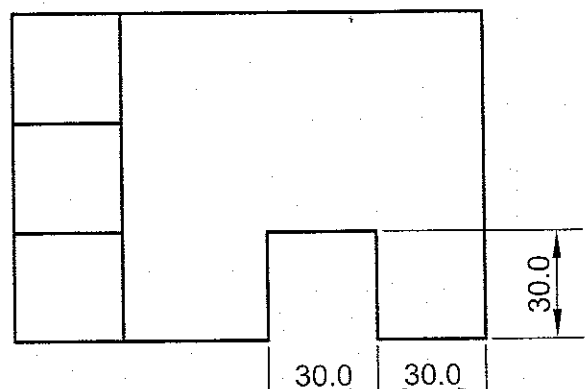
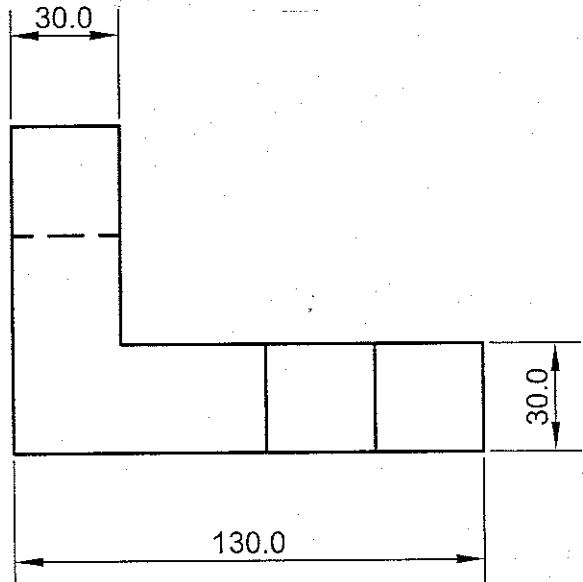
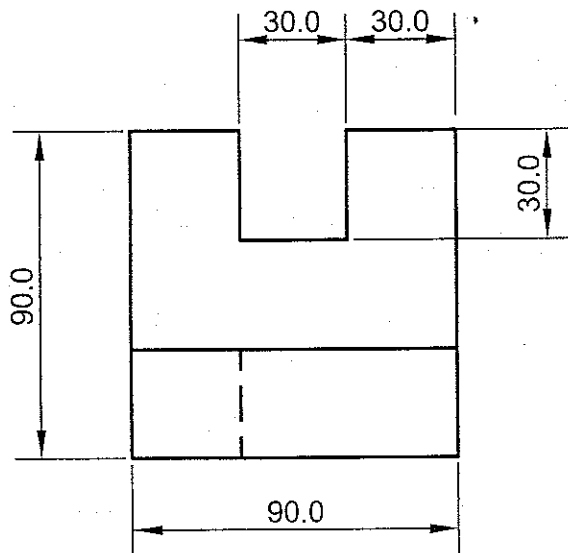
Instructions

1. Answer all questions
2. Create a title block
3. Save the drawing as separate file for each question.
4. Save your drawings every 5 minutes
5. Use first angle projection
6. Draw to 1:1 scale

Questions

2. Draw the Isometric view from the given orthographic view.

15 Marks



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A2

Dubai International Academic City, Dubai.
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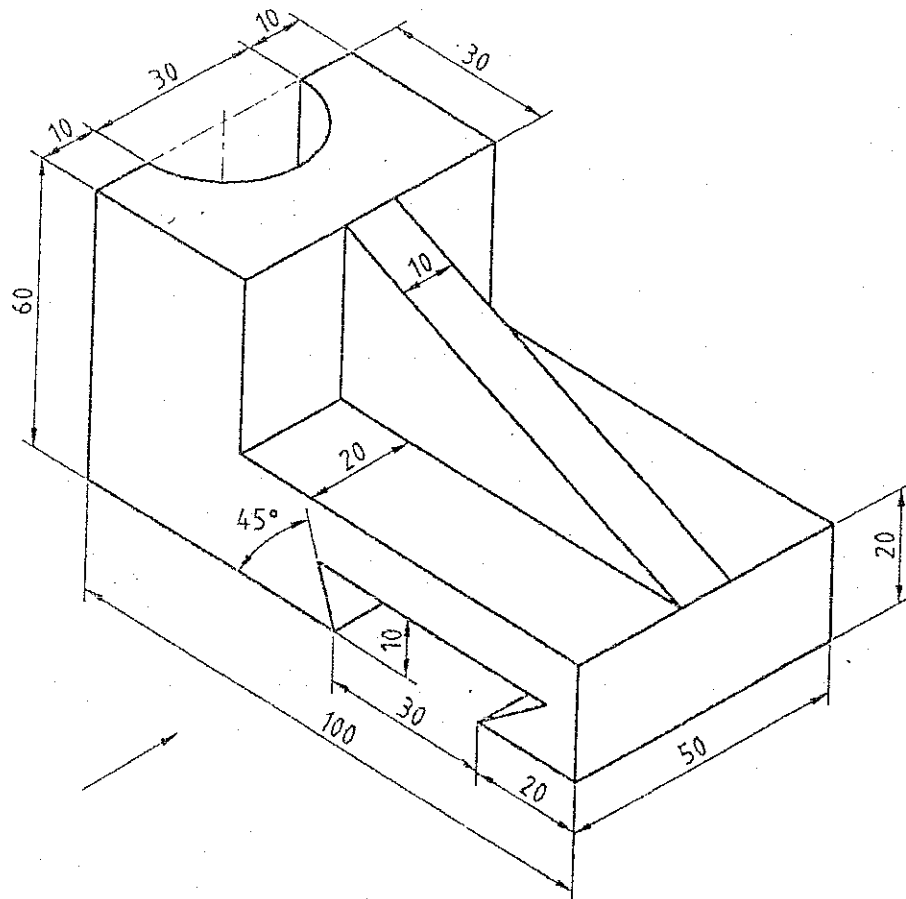
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Questions

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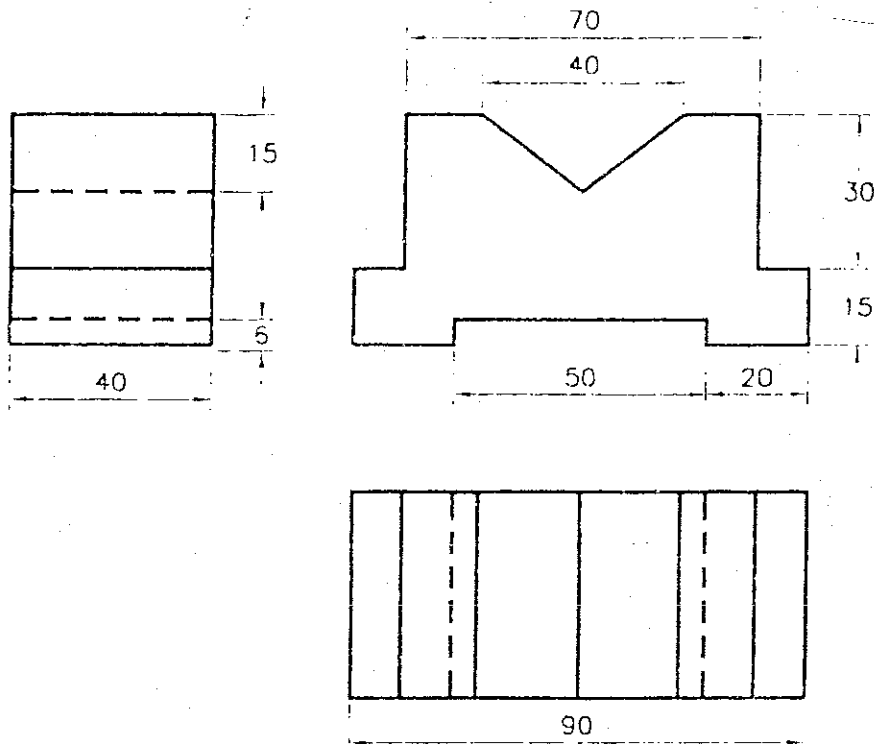
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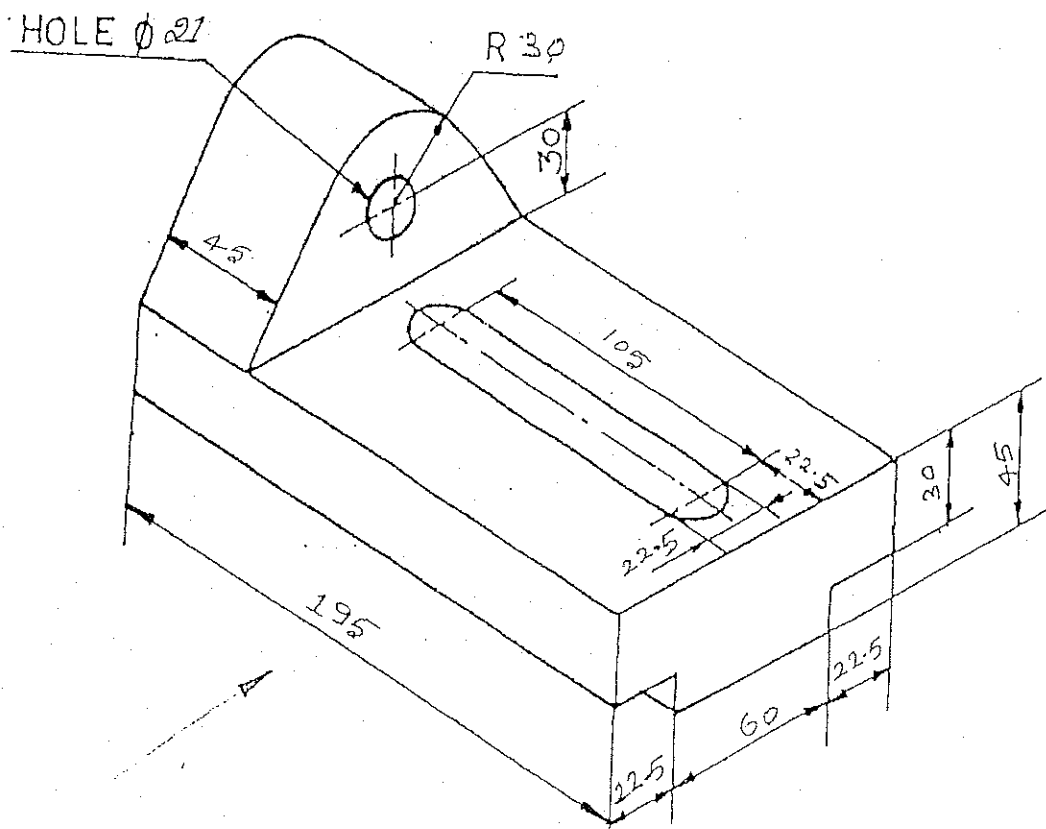
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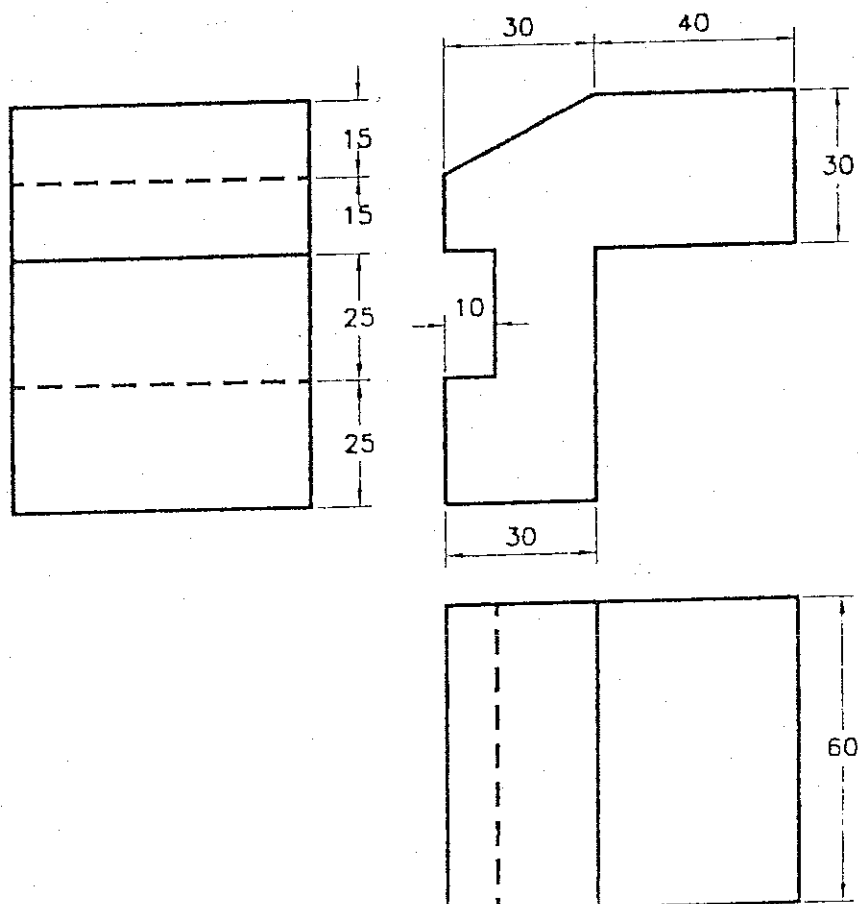
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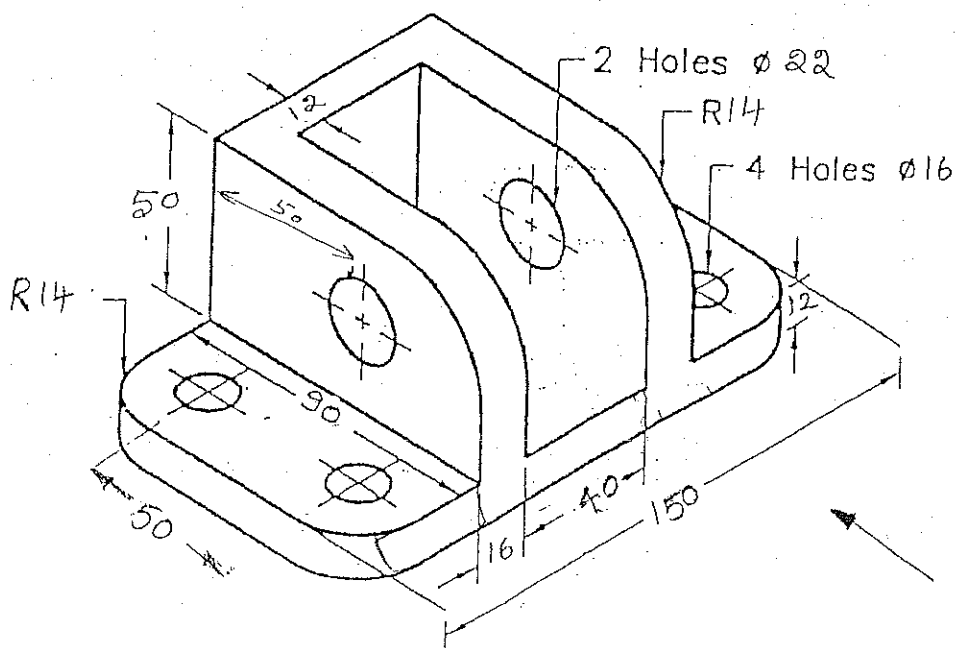
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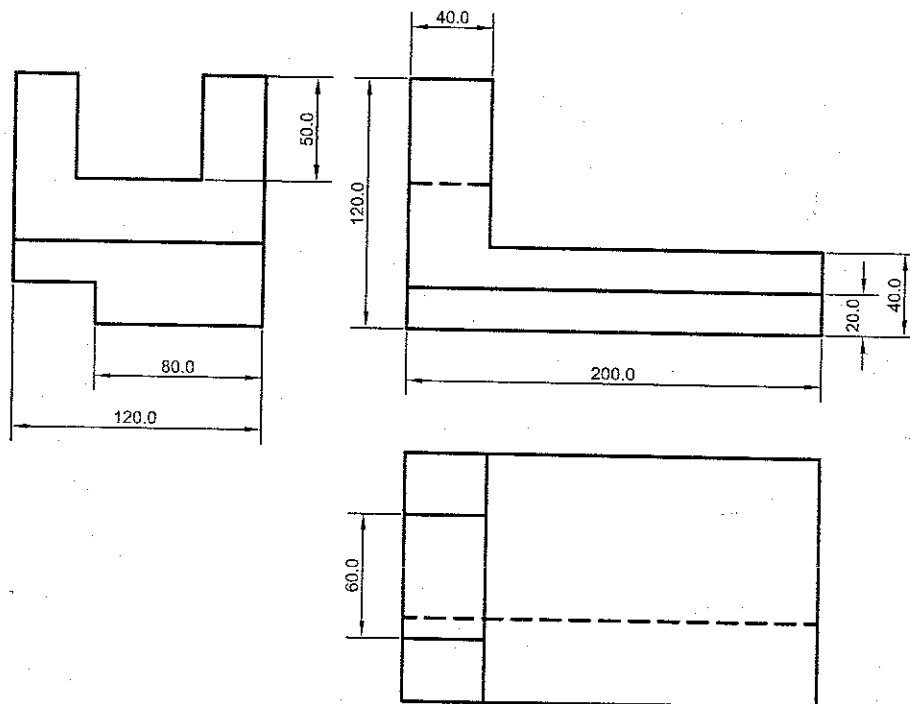
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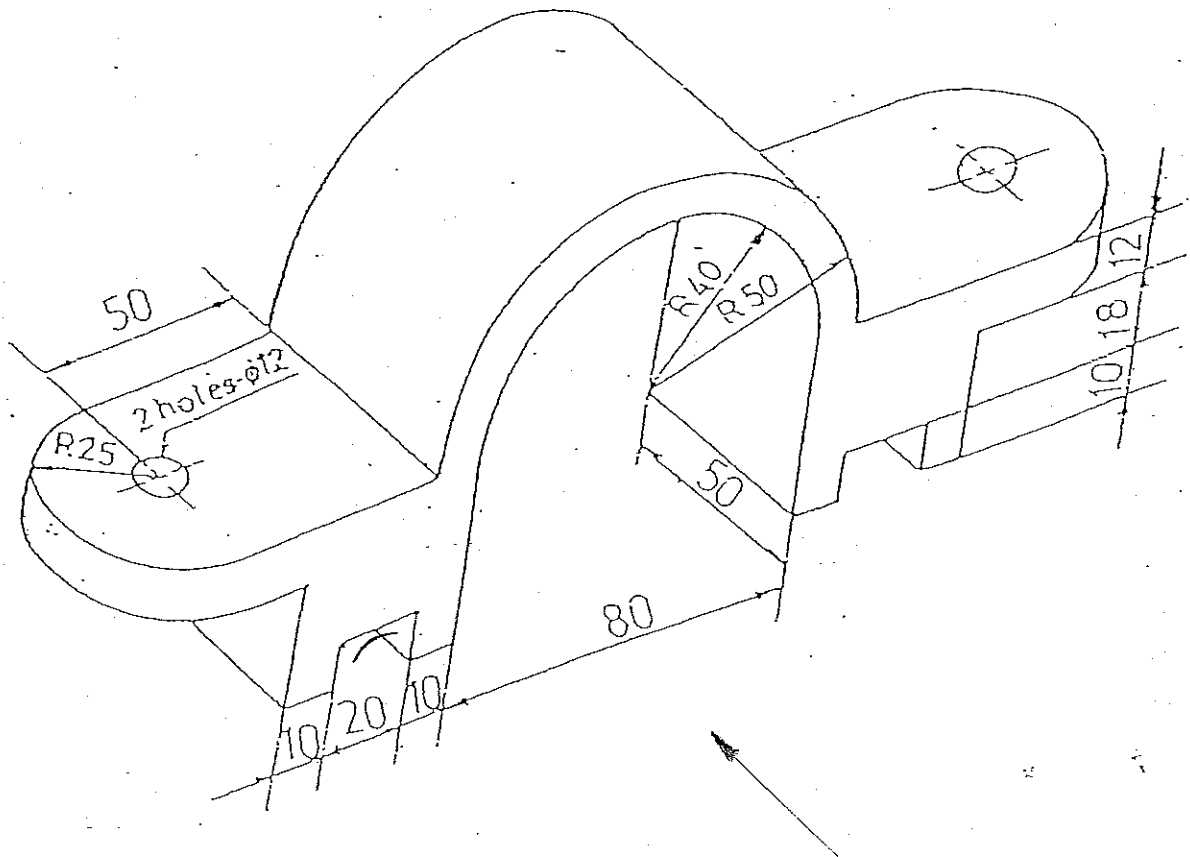
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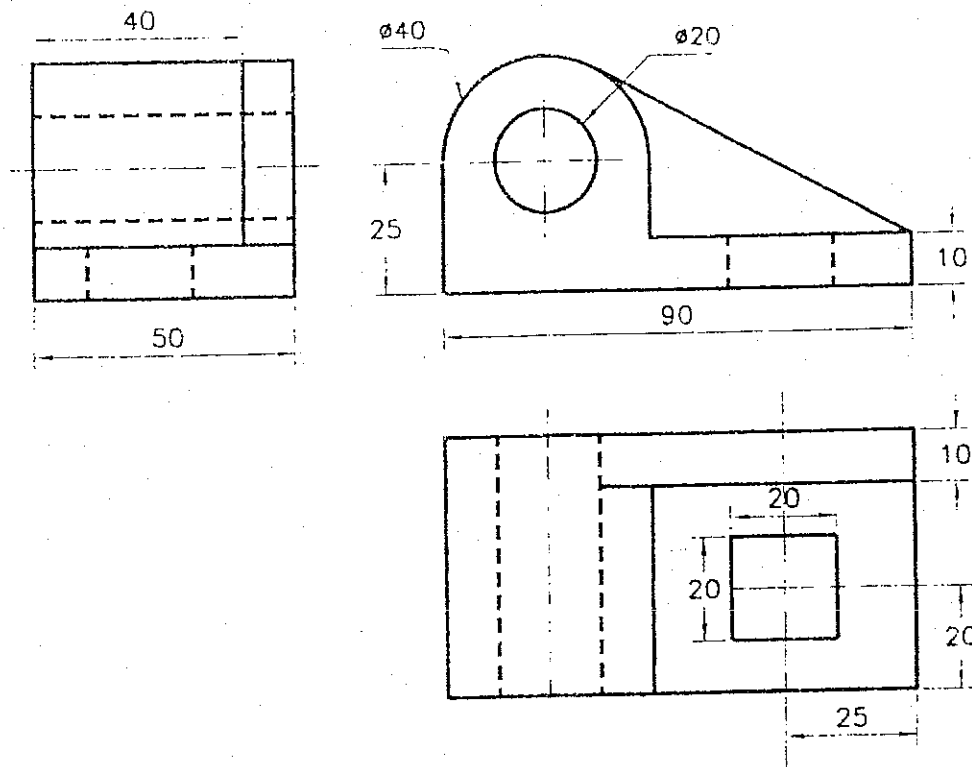
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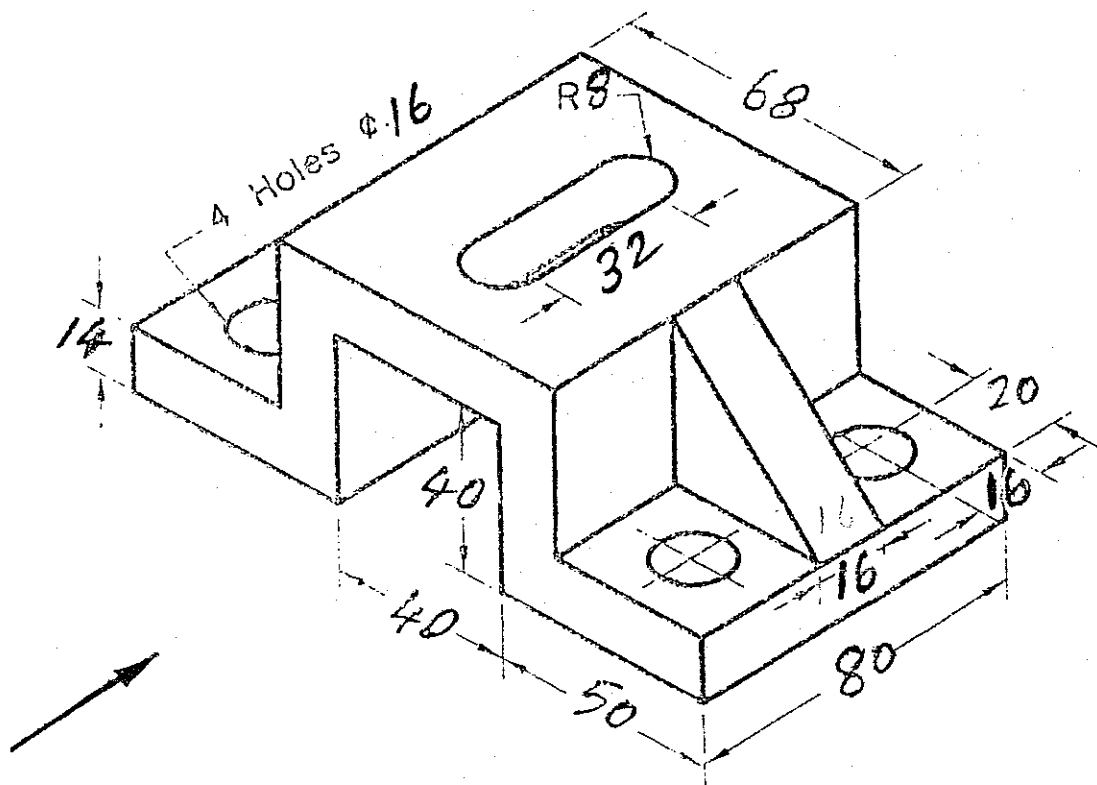
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