

ID No. _____

Name _____

BITS, Pilani – Dubai
Dubai International Academic City
I Year – II Semester 2007 – 2008

COMPREHENSIVE EXAMINATION

Course No. : TA UC111
 Course Title : Engineering Graphics
 Nature of Exam : Closed Book
 Weightage : 40 %
 Duration : 90 minutes
 Date : 21.05.2008.

NOTE: (a) Answer all questions
 (b) Save your drawings every 5 minutes.
 (c) Use First angle Projection

1. The top view and front view of a line CD measures 110mm and 137.5mm respectively. The line is inclined 30° to VP. The end C is 33mm above HP and 33mm in front of the VP. The other end D is in the first quadrant. Draw the projections.

(10 Marks)

2. A circular plate of negligible thickness and 100mm diameter appears as an ellipse in the front view, having its major axis 60mm long and minor axis 30mm long. Draw its top view when the major axis of the ellipse is horizontal.

(10 Marks)

3. A square pyramid of base 88 mm and height 110 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 49.5 mm from the base. Draw the following

- ❖ Projection of the Pyramid
- ❖ Section of the Pyramid
- ❖ True shape of the section of the Pyramid
- ❖ Development of the lateral surface of the truncated Pyramid.

(20 Marks)

ID No. _____

Name _____

BITS, Pilani – Dubai
Dubai International Academic City
I Year – II Semester 2007 – 2008

COMPREHENSIVE EXAMINATION

Course No. : TA UC111
Course Title : Engineering Graphics
Nature of Exam : Closed Book
Weightage : 40 %
Duration : 90 minutes
Date : 21.05.2008

NOTE:

- (a) Answer all questions
- (b) Save your drawings every 5 minutes.
- (c) Use First angle Projection

1. A Line AB inclined 40° to VP, with its end A 33 mm in front of VP and 33mm above HP. The distance between the projectors is 110mm with the end B 88mm above HP and in front of VP. Draw the projections

(10 Marks)

2. A Semi-circular plate of 100mm diameter has its straight edge in the VP and inclined at 45° to the HP. The straight edge of the plate makes an angle of 30° with the VP. Draw the projections.

(10 Marks)

3. A Cone of base diameter 88 mm and height 110 mm is resting on the ground on its base. The cone is cut by a cutting plane inclined 30° to HP and perpendicular to VP. The cutting plane cuts the axis of the cone 44 mm from the base. Draw the following

- ❖ Projection of the Cone
- ❖ Section of the Cone
- ❖ True shape of the section of the Cone
- ❖ Development of the lateral surface of the truncated Cone.

(20 Marks)

BITS, Pilani – Dubai
Dubai International Academic City
I Year – II Semester 2007 – 2008

COMPREHENSIVE EXAMINATION

Course No. : TA UC111.
Course Title : Engineering Graphics.
Nature of Exam : Closed Book.
Weightage : 40 %
Duration : 90 minutes.
Date : 21.05.2008.

NOTE: (a) Answer all questions
(b) Save your drawings every 5 minutes.
(c) Use First angle Projection

1 The top view and front view of a line PQ measures 90 mm and 117mm respectively. The line is inclined 35° to VP. The end P is 27mm above HP and 36mm in front of the VP. The other end Q is in the first quadrant. Draw the projections

(10 Marks)

2. A Semi-circular plate of 110mm diameter has its straight edge in the VP and inclined at 45° to the HP. The straight edge of the plate makes an angle of 30° with the VP. Draw the projections.

(10 Marks)

3. A Triangular pyramid of base 90 mm and height 108 mm is resting on the ground with one of its base sides making an angle of 45° 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 54 mm from the base. Draw the following

- ❖ Projection of the Pyramid
- ❖ Section of the Pyramid
- ❖ True shape of the section of the Pyramid
- ❖ Development of the lateral surface of the truncated Pyramid.

(20 Marks)

ID No. _____

Name _____

BITS, Pilani – Dubai
Dubai International Academic City
I Year – II Semester 2007 – 2008

COMPREHENSIVE EXAMINATION

Course No. : TA UC111.
Course Title : Engineering Graphics.
Nature of Exam : Closed Book.
Weightage : 40 %
Duration : 90 minutes.
Date : 21.05.2008.

NOTE: (a) Answer all questions
(b) Save your drawings every 5 minutes.
(c) Use First angle Projection

1. The line TS has its end T in HP and 88mm in front of VP. Its front view is inclined at 45° to XY line and has a length of 132 mm. The other end S is in VP. Draw its projections.

(10 Marks)

2. Draw the projection of rectangular lamina of size 80mm X 40mm resting on one of its corners on HP when one diagonal is inclined at 45° to HP and other diagonal is perpendicular to VP.

(10 Marks)

3. A Cone of base diameter 77 mm and height 110 mm is resting on the ground on its base. The cone is cut by a cutting plane inclined 45° to HP and perpendicular to VP. The cutting plane cuts the axis of the cone 66 mm from the base. Draw the following
 - ❖ Projection of the Cone
 - ❖ Section of the Cone
 - ❖ True shape of the section of the Cone
 - ❖ Development of the lateral surface of the truncated Cone

(20 Marks)

ID No. _____

Name _____

BITS, Pilani – Dubai
 Dubai International Academic City
 I Year – II Semester 2007 – 2008

COMPREHENSIVE EXAMINATION

Course No. : TA UC111
 Course Title : Engineering Graphics
 Nature of Exam : Closed Book
 Weightage : 40 %
 Duration : 90 minutes
 Date : 21.05.2008

NOTE: (a) Answer all questions
 (b) Save your drawings every 5 minutes.
 (c) Use First angle Projection

1. The front view of a line AB measures 108 mm long and makes 40° to XY line. The point A is in HP and 54mm in front of VP. The line is inclined 40° to VP. Draw its projections.

(10 Marks)

2. Draw the projection of rectangular lamina of size 88mm x 45mm resting on one of its corners on HP when one diagonal is inclined at 45° to HP and other diagonal is perpendicular to VP

(10 Marks)

3. A Pentagonal Pyramid of base side 66 mm and height 110 mm is resting on the ground with one of its base sides perpendicular to VP. The pyramid is cut by a cutting plane inclined 45° to HP and perpendicular to VP. The cutting plane cuts the axis of the pyramid 66 mm from the base. Draw the following
 - ❖ Projection of the Pyramid
 - ❖ Section of the Pyramid
 - ❖ True shape of the section of the Pyramid
 - ❖ Development of the lateral surface of the truncated Pyramid

(20 Marks)

ID No. _____

Name _____

BITS, Pilani – Dubai
Dubai International Academic City
I Year – II Semester 2007 – 2008

COMPREHENSIVE EXAMINATION

Course No. : TA UC111.
Course Title : Engineering Graphics.
Nature of Exam : Closed Book.
Weightage : 40 %
Duration : 90 minutes.
Date : 21.05.2008.

NOTE: (a) Answer all questions
(b) Save your drawings every 5 minutes.
(c) Use First angle Projection

1 A line CD 154 mm, has one of its end 110 mm in front of VP and 33 mm above HP. The top view of the line is 110mm .The other end of the line is 33 mm in front of VP and above HP. Draw its Projections.

(10 Marks)

2. A pentagonal plate of 80mm side has a circular hole of 70mm diameter in its centre. The plane stands on one of its sides on the HP with its plane perpendicular to VP and 45° inclined to the HP. Draw the projections

(10 Marks)

3. A Cone of base diameter 88 mm and height 110 mm is resting on the ground on its base. The cone is cut by a cutting plane inclined 50° to HP and perpendicular to VP. The cutting plane cuts the axis of the cone 66 mm from the base. Draw the following

- ❖ Projection of the Cone
- ❖ Section of the Cone
- ❖ True shape of the section of the Cone
- ❖ Development of the lateral surface of the truncated Cone.

(20 Marks)

ID No. _____

Name__

Make up

BITS, Pilani – Dubai
Dubai International Academic City
I Year – II Semester 2007 – 2008

COMPREHENSIVE EXAMINATION

Course No. : TA UC111.
Course Title : Engineering Graphics.
Nature of Exam : Closed Book.
Weightage : 40 %
Duration : 90 minutes.
Date : 21.05.2008.

NOTE:

- (a) Answer ALL questions
- (b) Save your drawings every 5 minutes.
- (c) Use First Angle Projection

1. A Line TS inclined 45° to VP, with its end T 28.5 mm in front of VP and 38mm above HP. The distance between the projectors is 76 mm with the end S 95 mm above HP and in front of VP. Draw the projections

(10 Marks)

2. A Semi-circular plate of 99mm diameter has its straight edge in the VP and inclined at 45° to the HP. The straight edge of the plate makes an angle of 30° with the VP. Draw the projections.

(10 Marks)

3. A Cone of base diameter 77 mm and height 110 mm is resting on the ground on its base. The cone is cut by a cutting plane inclined 30° to HP and perpendicular to VP. The cutting plane cuts the axis of the cone 55 mm from the base. Draw the following

- ❖ Projection of the Cone
- ❖ Section of the Cone
- ❖ True shape of the section of the Cone
- ❖ Development of the lateral surface of the truncated Cone

(20 Marks)

TEST-I

Course No.	TA UC111
Course Title	Engineering Graphics
Nature of Exam	Closed Book
Weightage	20 %
Duration	60 minutes
Date	07.04.2008

Instructions

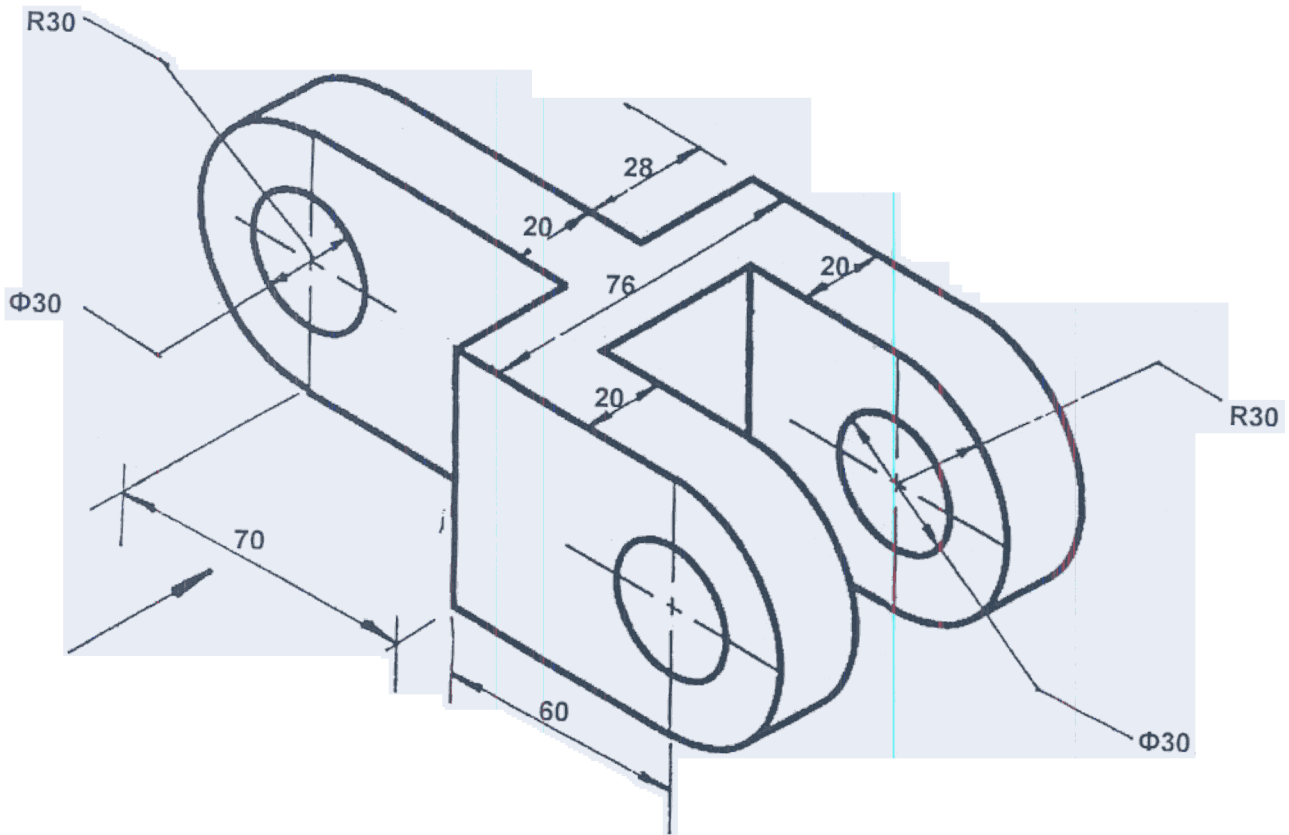
1. Answer all questions
2. Create a title block
3. Save the drawing as separate files for each question.
4. Save your drawings every 5 minutes
5. Use first angle projection
6. Draw to 1:1 scale

Questions

1. Draw the following views for the given object & dimension

12 Marks

- a) Front view
- b) Side View



TEST-I

Course No.	TA UC111
Course Title	Engineering Graphics
Nature of Exam	Closed Book
Weightage	20 %
Duration	60 minutes
Date	07.04.2008

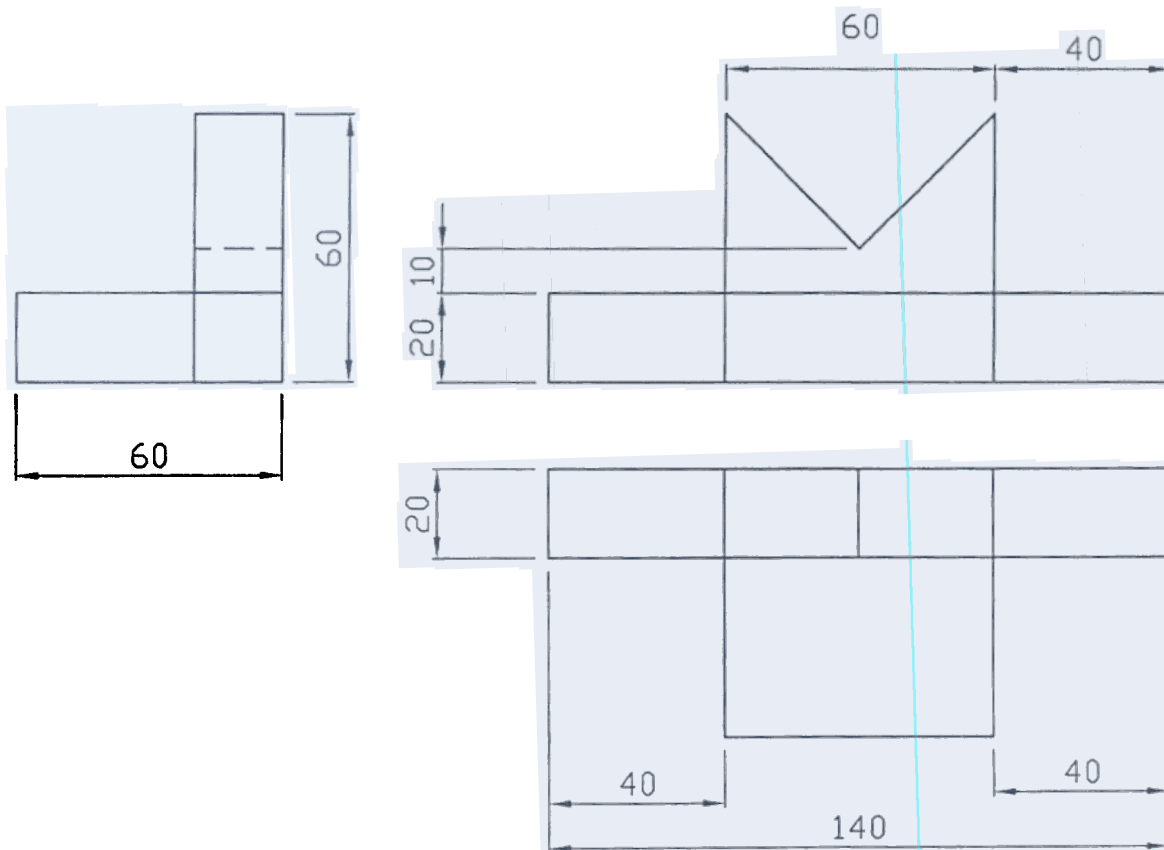
Instructions

1. Answer all questions
2. Create a title block
3. Save the drawing as separate files 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.

8 Marks



TEST-I

Course No.	TA UC111
Course Title	Engineering Graphics
Nature of Exam	Closed Book
Weightage	20 %
Duration	60 minutes
Date	07.04.2008

Instructions

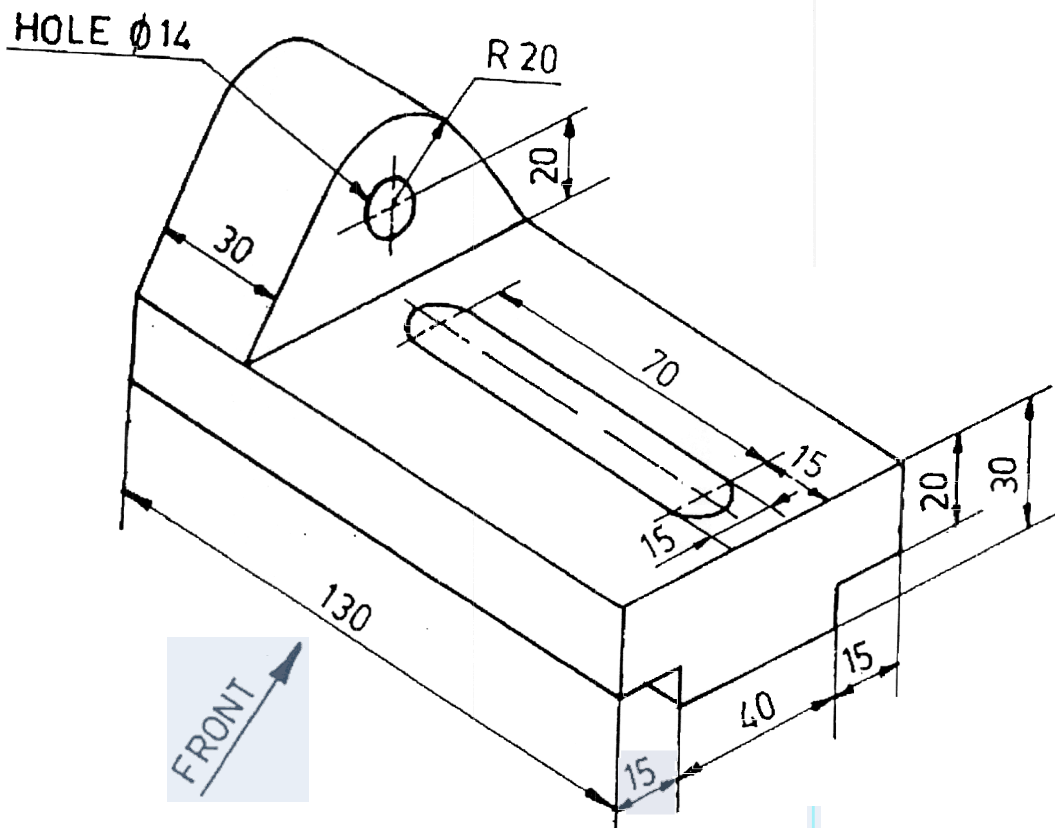
1. Answer all questions
2. Create a title block
3. Save the drawing as separate files for each question.
4. Save your drawings every 5 minutes
5. Use first angle projection
6. Draw to 1:1 scale

Questions

1. Draw the following views for the given object & dimensions

12 Marks

- a) Front view
- b) Top view



TEST-I

Course No.	TA UC111
Course Title	Engineering Graphics
Nature of Exam	Closed Book
Weightage	20 %
Duration	60 minutes
Date	07.04.2008

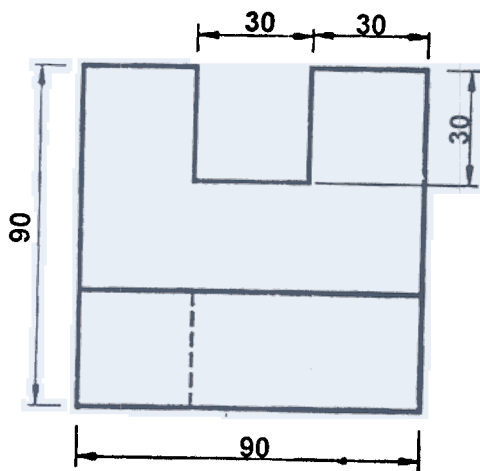
Instructions

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

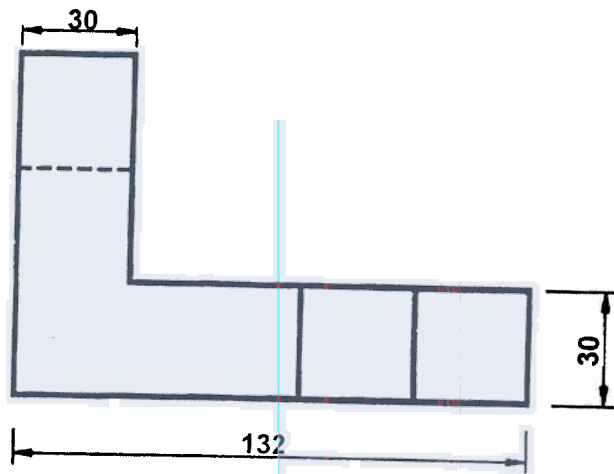
Questions

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

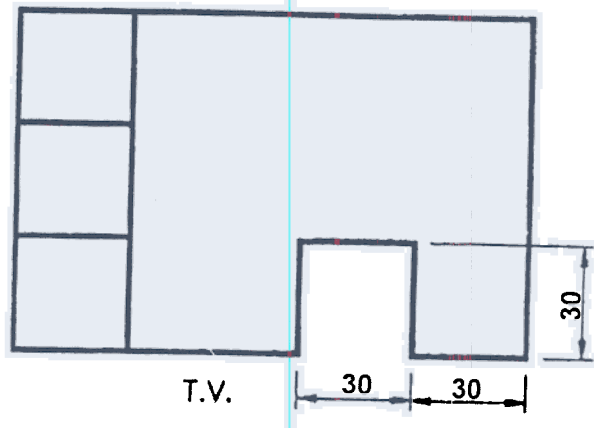
8 Marks



R.H.S.V.



F.V.



T.V.

BITS, Pilani – Dubai
International Academic City, Dubai.
I Year – II Semester 2007 – 2008

TEST-I

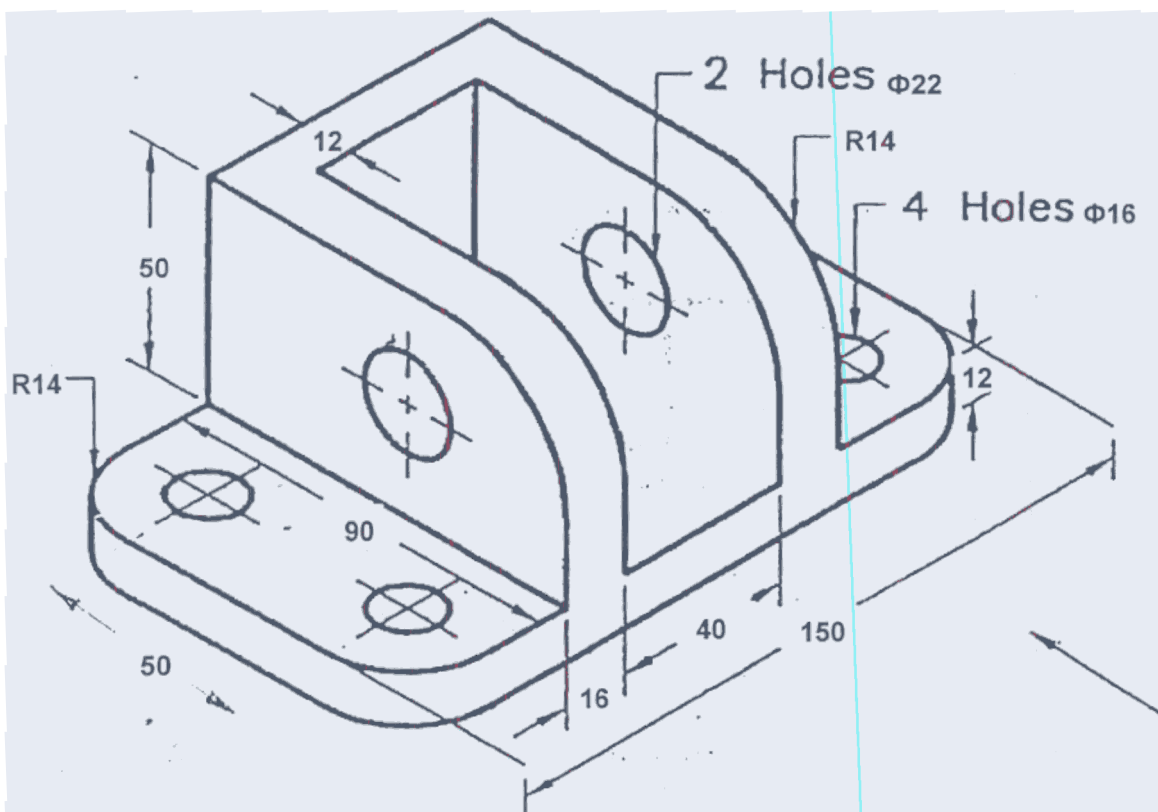
Course No.	TA UC111
Course Title	Engineering Graphics
Nature of Exam	Closed Book
Weightage	20 %
Duration	60 minutes
Date	07.04.2008

Instructions

1. Answer all questions
2. Create a title block
3. Save the drawing as separate files 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. 12 Marks
- a) Front view
b) Left side view



BITS, Pilani – Dubai
International Academic City, Dubai.
I Year – II Semester 2007 – 2008

2A

TEST-I

Course No.	TA UC111
Course Title	Engineering Graphics
Nature of Exam	Closed Book
Weightage	20 %
Duration	60 minutes
Date	07.04.2008

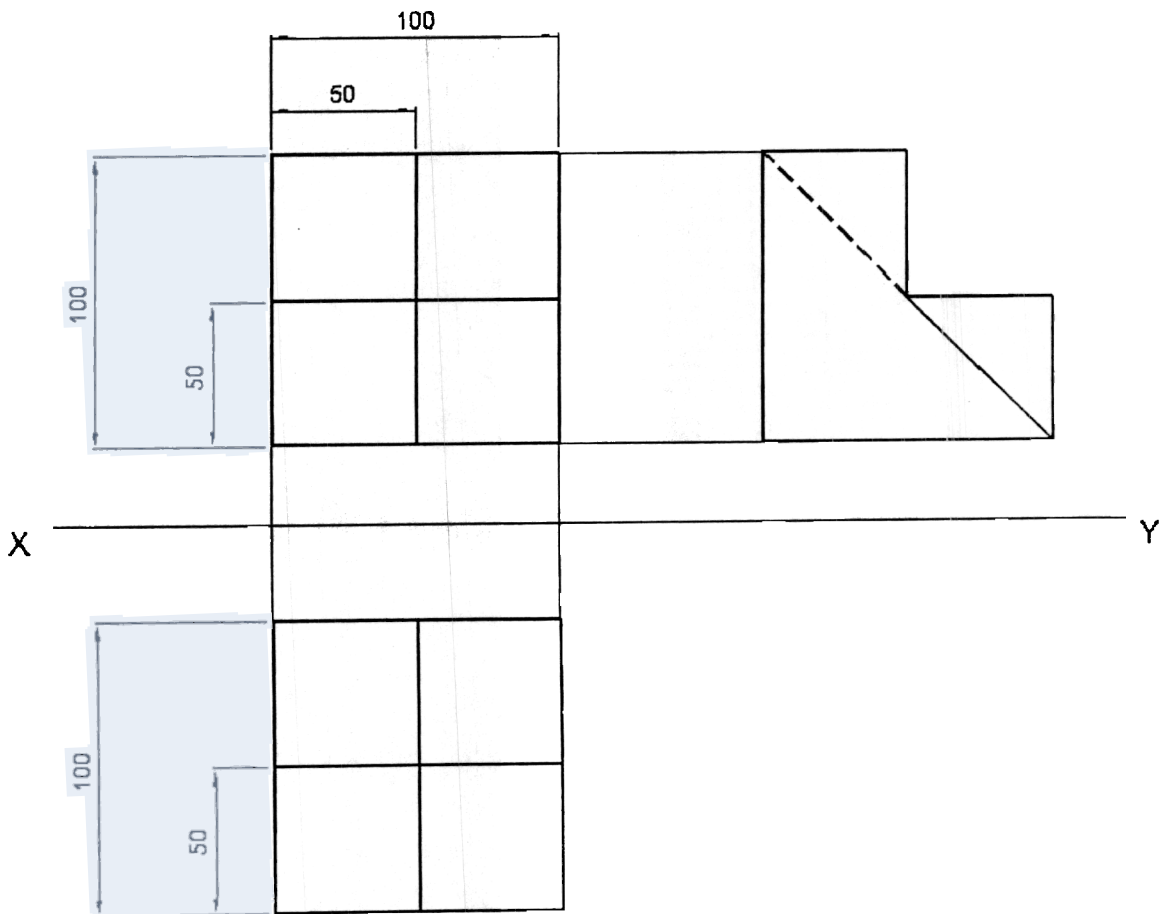
Instructions

1. Answer all questions
2. Create a title block
3. Save the drawing as separate files 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.

8 Marks



TEST-I

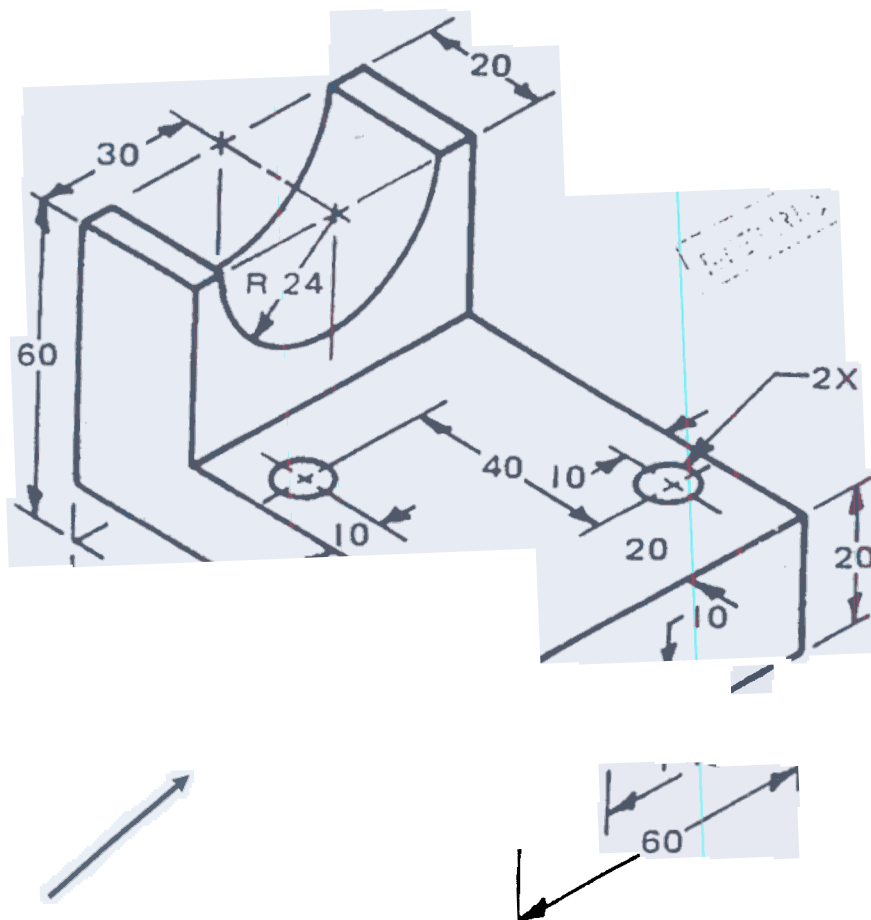
Course No.	TA UC111
Course Title	Engineering Graphics
Nature of Exam	Closed Book
Weightage	20 %
Duration	60 minutes
Date	07.04.2008

Instructions

1. Answer all questions
2. Create a title block
3. Save the drawing as separate files 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. 12 Marks
- a) Front view
 - b) Right side view
 - c) Top view



BITS, Pilani – Dubai
International Academic City, Dubai.
I Year – II Semester 2007 – 2008

2B

TEST-I

Course No.	TA UC111
Course Title	Engineering Graphics
Nature of Exam	Closed Book
Weightage	20 %
Duration	60 minutes
Date	07.04.2008

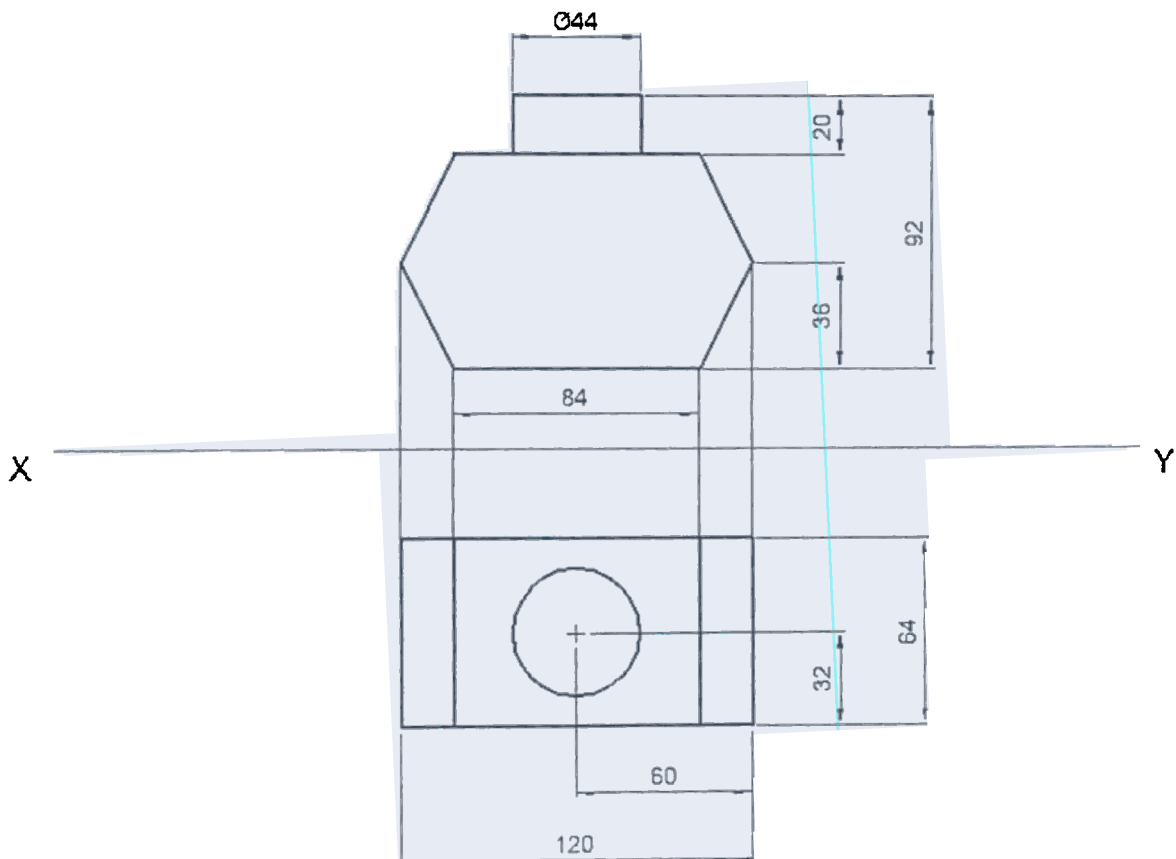
Instructions

1. Answer all questions
2. Create a title block
3. Save the drawing as separate files 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.

8 Marks



TEST-I

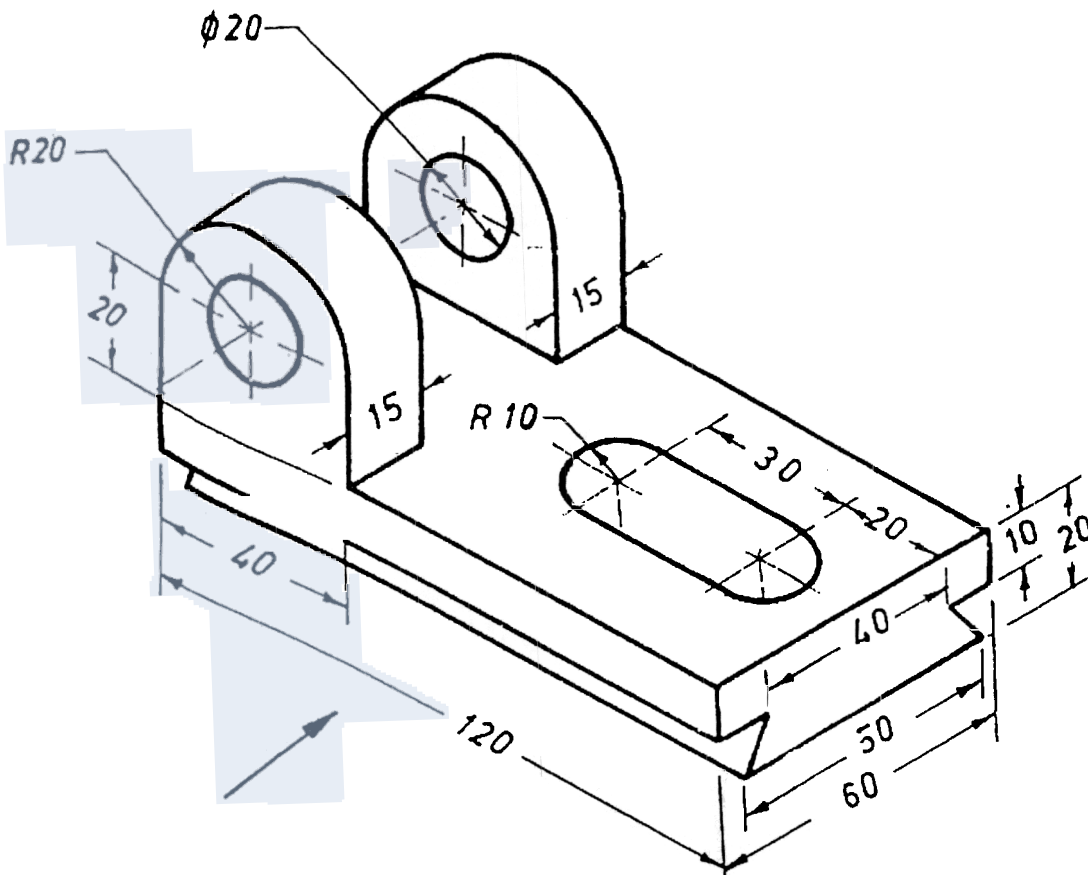
Course No.	TA UC111
Course Title	Engineering Graphics
Nature of Exam	Closed Book
Weightage	20 %
Duration	60 minutes
Date	07.04.2008

Instructions

1. Answer all questions
2. Create a title block
3. Save the drawing as separate files 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. 12 Marks
 - a) Front view
 - b) Right side view



TEST-I

Course No.	TA UC111
Course Title	Engineering Graphics
Nature of Exam	Closed Book
Weightage	20 %
Duration	60 minutes
Date	07.04.2008

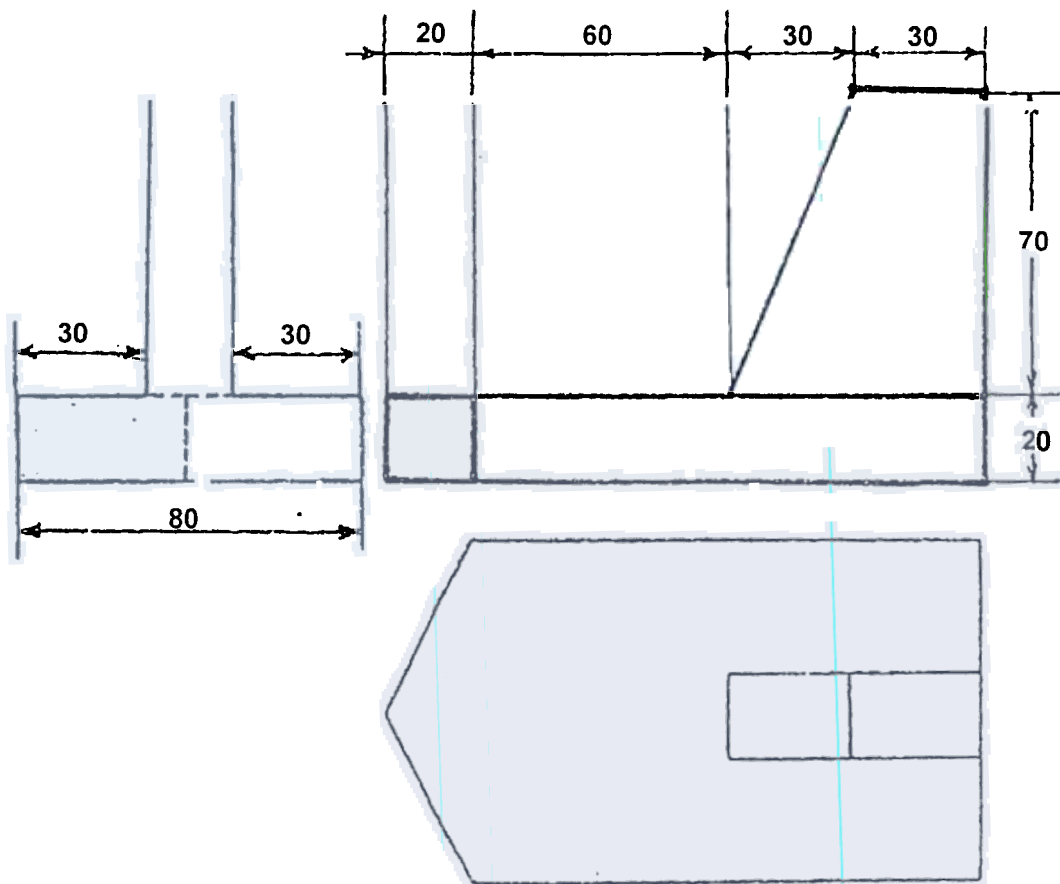
Instructions

1. Answer all questions
2. Create a title block
3. Save the drawing as separate files 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.

8 Marks



TEST-I

Course No.	TA UC111
Course Title	Engineering Graphics
Nature of Exam	Closed Book
Weightage	20 %
Duration	60 minutes
Date	07.04.2008

Instructions

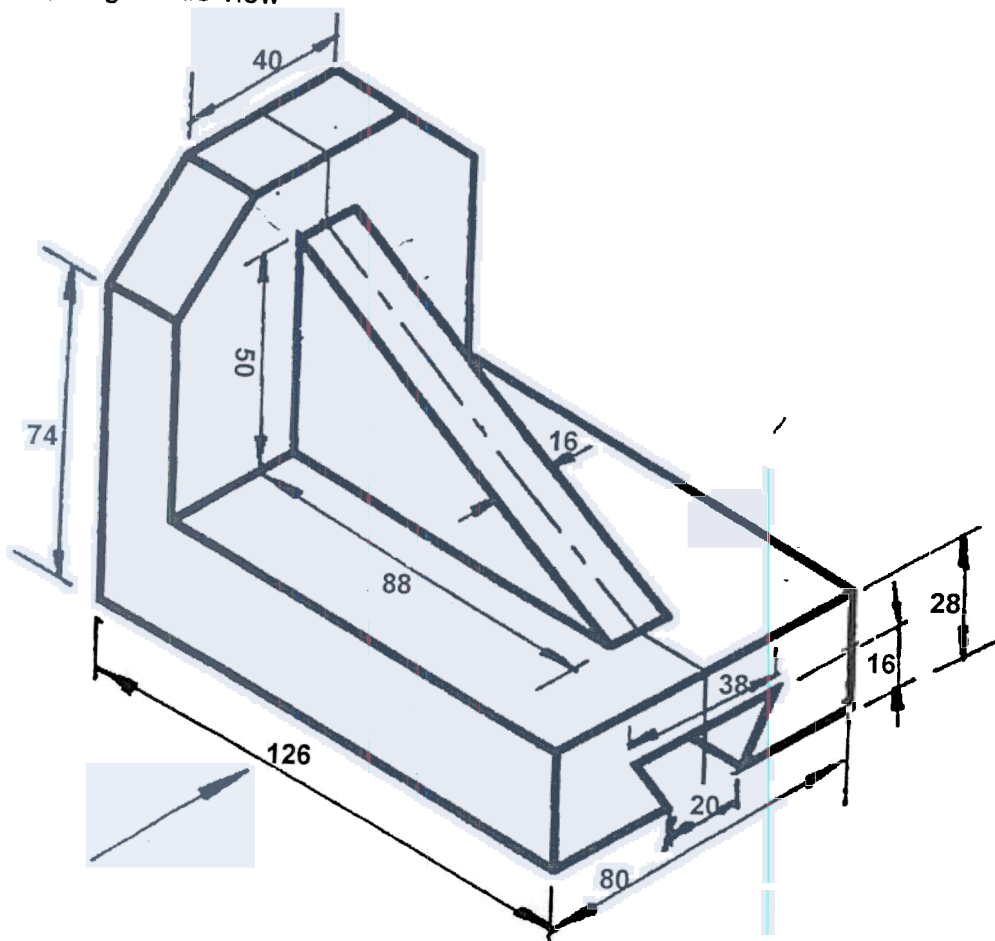
1. Answer all questions
2. Create a title block
3. Save the drawing as separate files for each question.
4. Save your drawings every 5 minutes
5. Use first angle projection
6. Draw to 1:1 scale

Questions

1 Draw the following views for the given object & dimension them.

12 Marks

- a) Front view
- b) Right side view



TEST-I

Course No.	TA UC111
Course Title	Engineering Graphics
Nature of Exam	Closed Book
Weightage	20 %
Duration	60 minutes
Date	07.04.2008

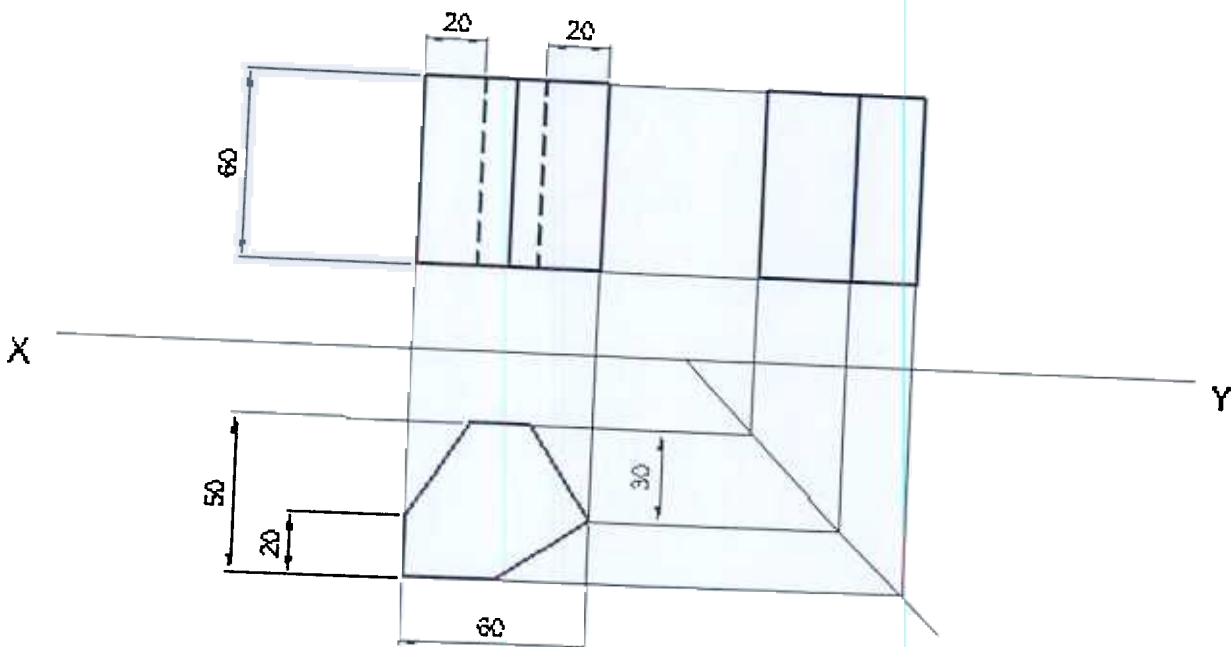
Instructions

1. Answer all questions
2. Create a title block
3. Save the drawing as separate files 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

8 Marks



BITS, Pilani – Dubai
International Academic City, Dubai.
I Year – II Semester 2007 – 2008

TEST-I (Make up)

Course No.
Course Title
Nature of Exam
Weightage
Duration
Date

TA UC111
Engineering Graphics
Closed Book
20 %
60 minutes

Instructions

1. Answer all questions
2. Create a title block
3. Save the drawing as separate files 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.

8 Marks

