ID No.	Name

#### BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI DUBAI CAMPUS

#### **Dubai International Academic City, Dubai**

#### I Year - I Semester 2012 - 2013

#### **COMPREHENSIVE EXAMINATION**

Course No.

BITS F110

**Course Title** 

**Engineering Graphics** 

**Nature of Exam** 

Closed Book

Weightage

40 % (80 Marks)

Duration

90 minutes

Date

02 January 2013

NOTE: (a) Answer all questions

(b) Save your drawings every 5 minutes.

(c) Use First Angle Projection

- Q1. The front view of a line TS measures 130mm long and makes 40° to XY line. The end point T is in HP and 90mm infront of VP. The line is inclined 45° to VP. Draw its projections. (30 Marks)
- Q2. A Pentagonal pyramid of base side 50mm and height 100mm is resting on its base on ground with one of its base sides inclined at 25° to VP. The pyramid is cut by a cutting plane inclined at 30° to HP and perpendicular to VP, passing through the axis at a distance of 40mm from the base. Draw the following
  - > Projection of the pyramid
  - > Sectional view
  - True shape of the section
  - Lateral surface development of the truncated pyramid

(50 Marks)

ID	Namo

## BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI DUBAI CAMPUS

Dubai International Academic City, Dubai

I Year - I Semester 2012 - 2013

#### **COMPREHENSIVE EXAMINATION**

Course No.

BITS F110

**Course Title** 

**Engineering Graphics** 

Nature of Exam

Closed Book

Weightage

40 % (80 Marks)

Duration

90 minutes

Date

02 January 2013

NOTE: (a)

Answer all questions

(b) Save your drawings every 5 minutes.

(c) Use First Angle Projection

- Q1. The end point A of a line AB is 40mm above HP and 50mm infront of VP. The line is inclined at 35° to HP and the front view is inclined 50° to XY. The top view is 150mm long. Draw its projections. (30 Marks)
- Q2. 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 at 25° to HP and perpendicular to VP. The cutting plane cuts the axis of the cone at a distance of 50mm from the base. Draw the following
  - Projection of the cone
  - Sectional view
  - True shape of the section
  - Lateral surface development of the truncated cone.

(50 Marks)

ID	Νσ	Name

#### BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI DUBAI CAMPUS

#### **Dubai International Academic City, Dubai**

#### I Year - I Semester 2012 - 2013

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Date

02 January 2013

NOTE: (a) Answer all questions

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(c) Use First Angle Projection

- Q1. A line CD is inclined at 40° to VP, with its end point C 40mm infront of VP and 50mm above HP. The distance between the projectors is 130mm, with the front view end point D is 150mm above HP and infront of VP. Draw its projections. (30 Marks)
- Q2. A cylinder of base diameter 100mm and height 120mm is resting on its base on the ground with the axis perpendicular to HP and Parallel to VP. It is cut by a cutting plane inclined at 30<sup>0</sup> to HP and perpendicular to VP passing through the midpoint of the axis. Draw the following
  - Projection of the cylinder
  - Sectional view
  - > True shape of the section
  - Lateral surface development of the truncated cylinder.

(50 Marks)

## Birla Institute of Technology and Science, Pilani Dubai Campus

Α1

Dubai International Academic City, Dubai. I Year – I Semester 2012–2013

#### TEST- I

Course No.

BITS F110

Course Title

**Engineering Graphics** 

Nature of Exam

Closed Book

Weightage

20 %

Duration

60 minutes

Date

12-11-2012

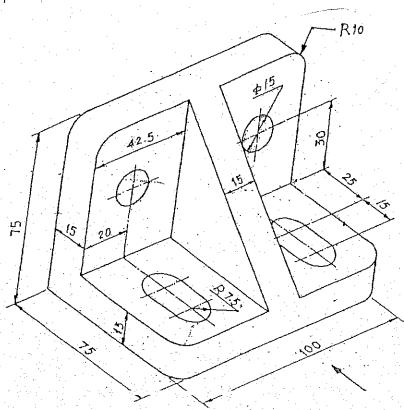
#### Instructions

- 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

#### Questions

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

- a) Front view
- b) Top view



## Birla Institute of Technology and Science, Pilani Dubai Campus

Α1

Dubai International Academic City, Dubai. I Year – I Semester 2012–2013

#### TEST-1

Course No.

BITS F110

Course Title

Engineering Graphics

Nature of Exam

Closed Book

Weightage

20 %

Duration

60 minutes

Date

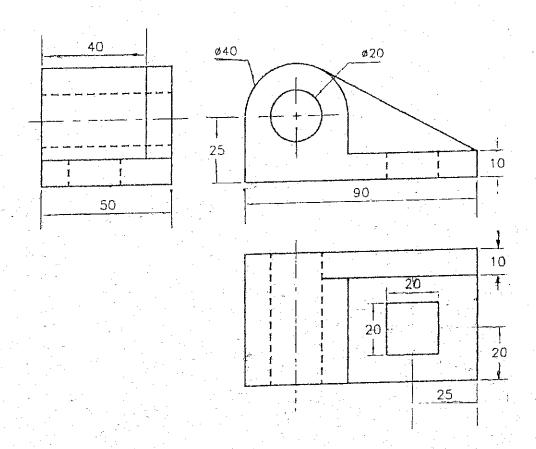
12-11-2012

#### 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

#### Questions

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



### Birla Institute of Technology and Science, Pilani Dubai Campus

A2

Dubai International Academic City, Dubai. I Year – I Semester 2012–2013

#### TEST-I

Course No.

BITS F110

Course Title

Engineering Graphics

Nature of Exam

Closed Book

Weightage

20 %

Duration

60 minutes

Date

12-11-2012

#### Instructions

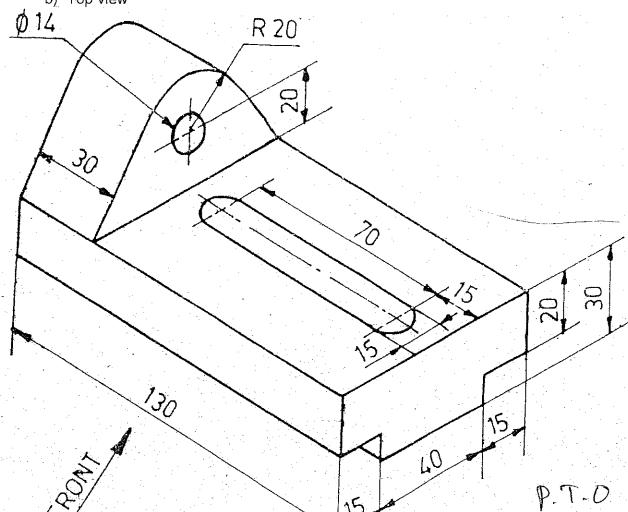
- 1. Answer all questions
- 2. Create a title block
- 3. Save the drawing as separate file for each question.
- 4. Save your drawings every 5 minutes
- 5. Use first angle projection
- 6. Draw to 1:1 scale

#### Questions

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

25 Marks

a) Front viewb) Top view



#### A2

## Birla Institute of Technology and Science, Pilani Dubai Campus

Dubai International Academic City, Dubai. I Year – I Semester 2012–2013

#### TEST-1

Course No.

BITS F110

Course Title

Engineering Graphics

Nature of Exam

Closed Book

Weightage

20 %

Duration

60 minutes

Date

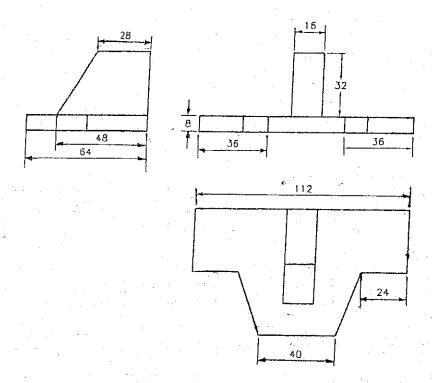
12-11-2012

#### 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

#### Questions

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



# Birla Institute of Technology and Science, Pilani Dubai Campus

А3

Dubai International Academic City, Dubai. I Year – I Semester 2012–2013

#### TEST-1

Course No.

BITS F110

Course Title

Engineering Graphics

Nature of Exam

Closed Book

Weightage

20 %

Duration

60 minutes

Date

12-11-2012

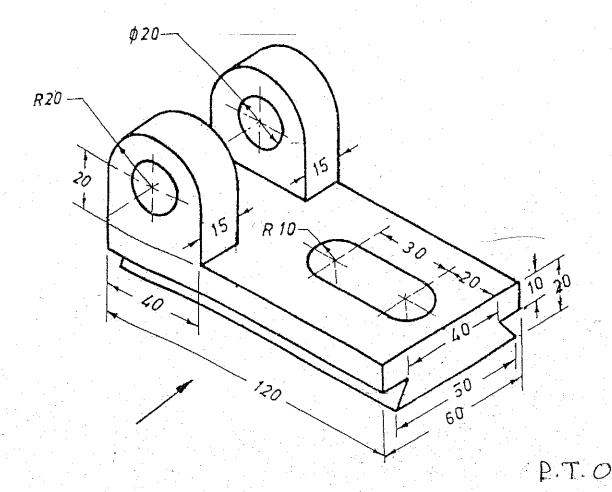
#### Instructions

- 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

#### Questions

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

- a) Front view
- b) Top view



#### А3

## Birla Institute of Technology and Science, Pilani Dubai Campus

Dubai International Academic City, Dubai. I Year – I Semester 2012– 2013

#### TEST-I

Course No.

BITS F110

Course Title

Engineering Graphics

Nature of Exam

Closed Book

Weightage

20 %

Duration

60 minutes

Date

12-11-2012

#### 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

#### Questions

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

