

ID No. \_\_\_\_\_

A1

Name \_\_\_\_\_

## **BITS PILANI, DUBAI CAMPUS**

Dubai International Academic City, Duabi

I Year – II Semester 2010 – 2011

### **COMPREHENSIVE EXAMINATION**

**Course No.** : TA C111  
**Course Title** : Engineering Graphics  
**Nature of Exam** : Closed Book  
**Weightage** : 40 % (120 Marks)  
**Duration** : 90 minutes  
**Date** : 08-06-2011

**NOTE:** (a) Attempt Part A and Part B in the separate answer sheets  
(b) Save your work frequently. No make-ups/extra time will be given for loss of drawings  
(c) Use First Angle Projection

### **PART – A (50 Marks)**

*The top view and front view of a line AB measures 100mm and 130mm respectively. The line is inclined  $35^{\circ}$  to VP. The end A is 30mm above HP and 40mm in front of VP. The other end B is in the first quadrant. Draw the projections*

ID No. \_\_\_\_\_

A2

Name \_\_\_\_\_

## **BITS PILANI, DUBAI CAMPUS**

Dubai International Academic City, Duabi

I Year – II Semester 2010 – 2011

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### PART – A (50 Marks)

*The line AB has its end A in HP and 98.6mm in front of VP. Its elevation is inclined at  $45^\circ$  to XY line and has a length of 147.8mm. The other end B is in VP. Draw its projections.*

ID No. \_\_\_\_\_

A3

Name \_\_\_\_\_

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Dubai International Academic City, Duabi

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### PART – A (50 Marks)

The plan and elevation of a line AB measures 115mm and 143.7mm respectively. The line is inclined  $30^\circ$  to VP. The end A is 34.5mm above HP and 34.5mm in front of the VP. The other end B is in the first quadrant. Draw the projections.

ID No. \_\_\_\_\_

A4

Name \_\_\_\_\_

## **BITS PILANI, DUBAI CAMPUS**

Dubai International Academic City, Duabi

**I Year – II Semester 2010 – 2011**

### **COMPREHENSIVE EXAMINATION**

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(c) Use First Angle Projection

### **PART – A (50 Marks)**

*The front view of a line TS measures 130mm long and makes  $40^\circ$  to XY line. The end T is in HP and 65mm in front of VP. The line is inclined  $40^\circ$  to VP. Draw its projections.*

ID No. \_\_\_\_\_

A5

Name \_\_\_\_\_

## **BITS PILANI, DUBAI CAMPUS**

Dubai International Academic City, Duabi

**I Year – II Semester 2010 – 2011**

### COMPREHENSIVE EXAMINATION

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**Date** : 08-06-2011

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(c) Use First Angle Projection

### PART – A (50 Marks)

*Line AB 168mm long has one of its end 120mm in front of VP and 36mm above HP. The top view of the line is 120mm. The other end of the line is 36mm in front of VP and above HP. Draw its Projections.*

ID No: \_\_\_\_\_

A6

Name \_\_\_\_\_

## **BITS PILANI, DUBAI CAMPUS**

Dubai International Academic City, Duabi

**I Year – II Semester 2010 – 2011**

### **COMPREHENSIVE EXAMINATION**

**Course No.** : TA C111  
**Course Title** : Engineering Graphics  
**Nature of Exam** : Closed Book  
**Weightage** : 40 % (120 Marks)  
**Duration** : 90 minutes  
**Date** : 08-06-2011

**NOTE:** (a) Attempt Part A and Part B in the separate answer sheets  
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(c) Use First Angle Projection

### PART – A (50 Marks)

The end A of a line AB is 32.7mm in front of VP and 54.5mm above HP. The line is inclined at  $40^\circ$  to HP and front view is  $50^\circ$  to XY. The top view is 130.7mm long. Draw its projections.

ID No. \_\_\_\_\_

B1

Name \_\_\_\_\_

## **BITS PILANI, DUBAI CAMPUS**

Dubai International Academic City, Duabi

I Year – II Semester 2010 – 2011

### **COMPREHENSIVE EXAMINATION**

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**Date** : 08-06-2011

**NOTE:** (a) Attempt Part A and Part B in the separate answer sheets  
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(c) Use First Angle Projection

### **PART – B (70 Marks)**

A pentagonal pyramid of base 60mm and height 100mm is resting on the ground with one of its base edge perpendicular to VP. The pyramid is cut by a cutting plane inclined  $45^\circ$  to HP and perpendicular to VP. The cutting plane cuts the axis of the pyramid 60mm from the ground. 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

ID No. \_\_\_\_\_

B2

Name \_\_\_\_\_

## **BITS PILANI, DUBAI CAMPUS**

Dubai International Academic City, Duabi

I Year – II Semester 2010 – 2011

### COMPREHENSIVE EXAMINATION

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(c) Use First Angle Projection

### PART – B (70 Marks)

A square pyramid of base 80mm and height 100mm is resting on the ground with one of its base side making angle of  $35^\circ$  to VP. The pyramid is cut by a cutting plane inclined  $30^\circ$  to HP and perpendicular to VP. The cutting plane cuts the axis of the pyramid by 45mm 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



ID No. \_\_\_\_\_

B3

Name \_\_\_\_\_

## BITS PILANI, DUBAI CAMPUS

Dubai International Academic City, Duabi

I Year – II Semester 2010 – 2011

### COMPREHENSIVE EXAMINATION

**Course No.** : TA C111  
**Course Title** : Engineering Graphics  
**Nature of Exam** : Closed Book  
**Weightage** : 40 % (120 Marks)  
**Duration** : 90 minutes  
**Date** : 08-06-2011

**NOTE:** (a) Attempt Part A and Part B in the separate answer sheets  
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(c) Use First Angle Projection

### PART – B (70 Marks)

A Hexagonal Pyramid of base side 50mm and height 100mm is resting on two of its base sides perpendicular to VP. The pyramid is cut by a cutting plane inclined at  $30^\circ$  to HP. The cutting plane cuts the axis of the pyramid by 40mm 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

ID No. \_\_\_\_\_

B4

Name \_\_\_\_\_

## **BITS PILANI, DUBAI CAMPUS**

Dubai International Academic City, Duabi

**I Year – II Semester 2010 – 2011**

### **COMPREHENSIVE EXAMINATION**

**Course No.** : TA C111  
**Course Title** : Engineering Graphics  
**Nature of Exam** : Closed Book  
**Weightage** : 40 % (120 Marks)  
**Duration** : 90 minutes  
**Date** : 08-06-2011

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(c) Use First Angle Projection

### PART – B (70 Marks)

*A cone of base diameter 80mm and height 100mm is resting on the ground on its base. The cone is cut by a cutting plane inclined  $30^\circ$  to HP and perpendicular to VP. The cutting plane cuts the axis of the cone by 40mm 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*

ID No. \_\_\_\_\_

B5

Name \_\_\_\_\_

## **BITS PILANI, DUBAI CAMPUS**

Dubai International Academic City, Duabi

**I Year – II Semester 2010 – 2011**

### **COMPREHENSIVE EXAMINATION**

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**NOTE:** (a) Attempt Part A and Part B in the separate answer sheets  
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(c) Use First Angle Projection

### PART – B (70 Marks)

A Hexagonal Prism of base side 40mm and height 100mm is resting on its base on ground with one of its vertical face inclined at  $45^\circ$  to VP. The prism is cut by a cutting plane inclined at  $45^\circ$  to HP passing through the midpoint of the axis. Draw the following.

- Projection of the Prism
- Section of the Prism
- True Shape of the section of the Prism
- Development of the lateral surface of the truncated Prism.

ID No. \_\_\_\_\_

B6

Name \_\_\_\_\_

## **BITS PILANI, DUBAI CAMPUS**

Dubai International Academic City, Duabi

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**NOTE:** (a) Attempt Part A and Part B in the separate answer sheets  
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(c) Use First Angle Projection

### **PART – B (70 Marks)**

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

- Projection of the Prism
- Section of the Prism
- True Shape of the section of the Prism
- Development of the lateral surface of the truncated Prism.