



MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION  
(Autonomous)  
(ISO/IEC - 27001 - 2005 Certified)

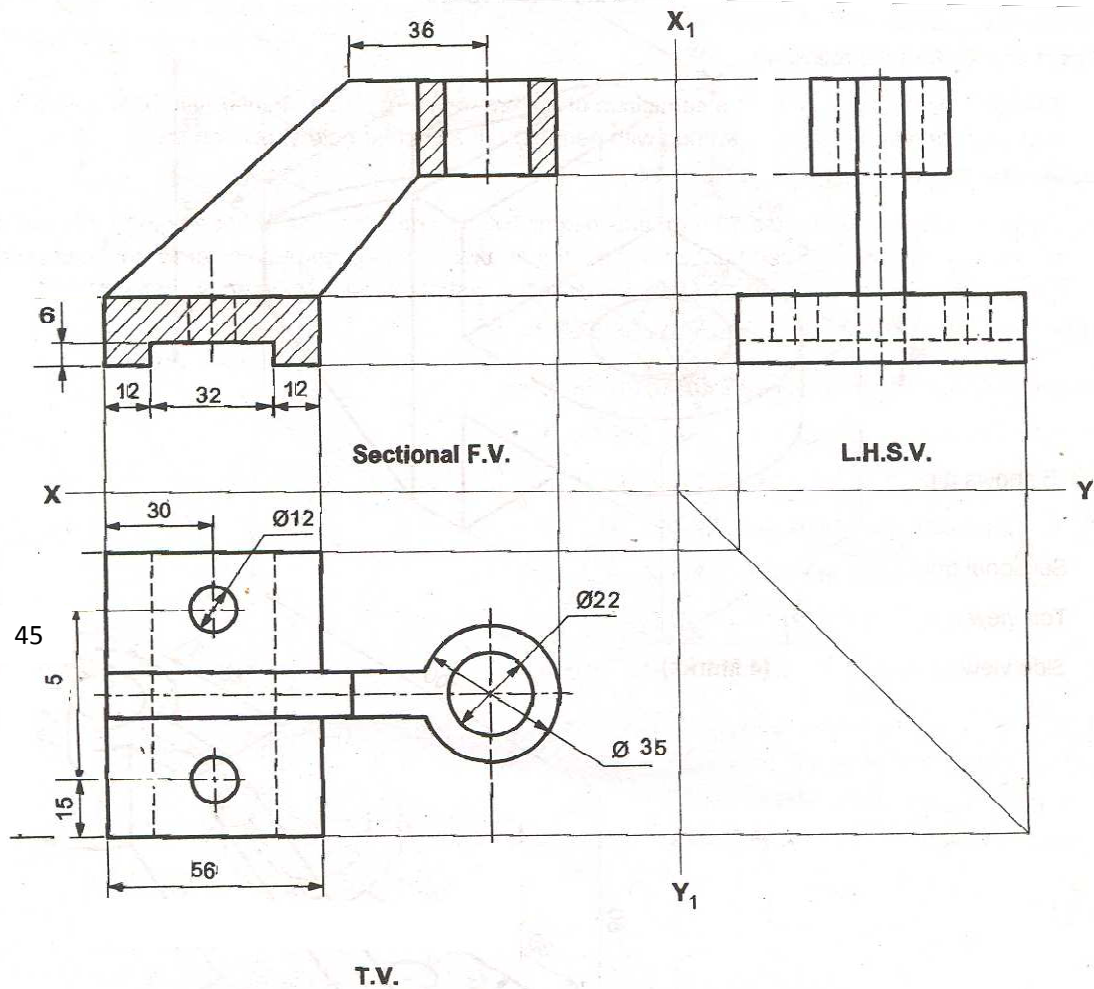
WINTER – 2012 EXAMINATION

Subject Code : **12016**

Model Answer

Engg. Drawing

Que 1: a) Missing View: 4 Marks    FV : 2 Marks    TV: 2 Marks





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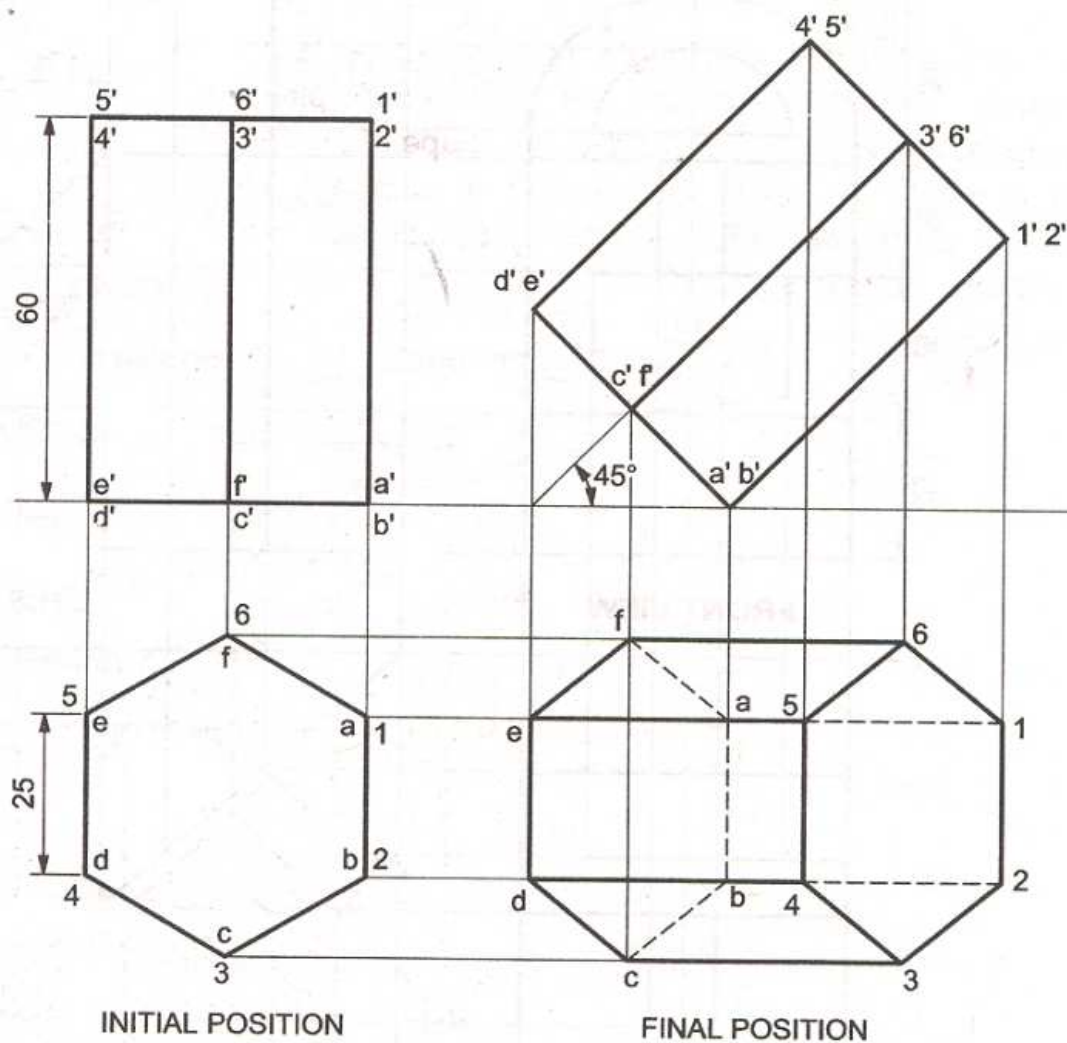
Model Answer

Engg. Drawing

Q 1 b i) Projections of Hexagonal Prism problem

( 6 Marks)

Initial position: 2 Marks    Final position: 4 Marks





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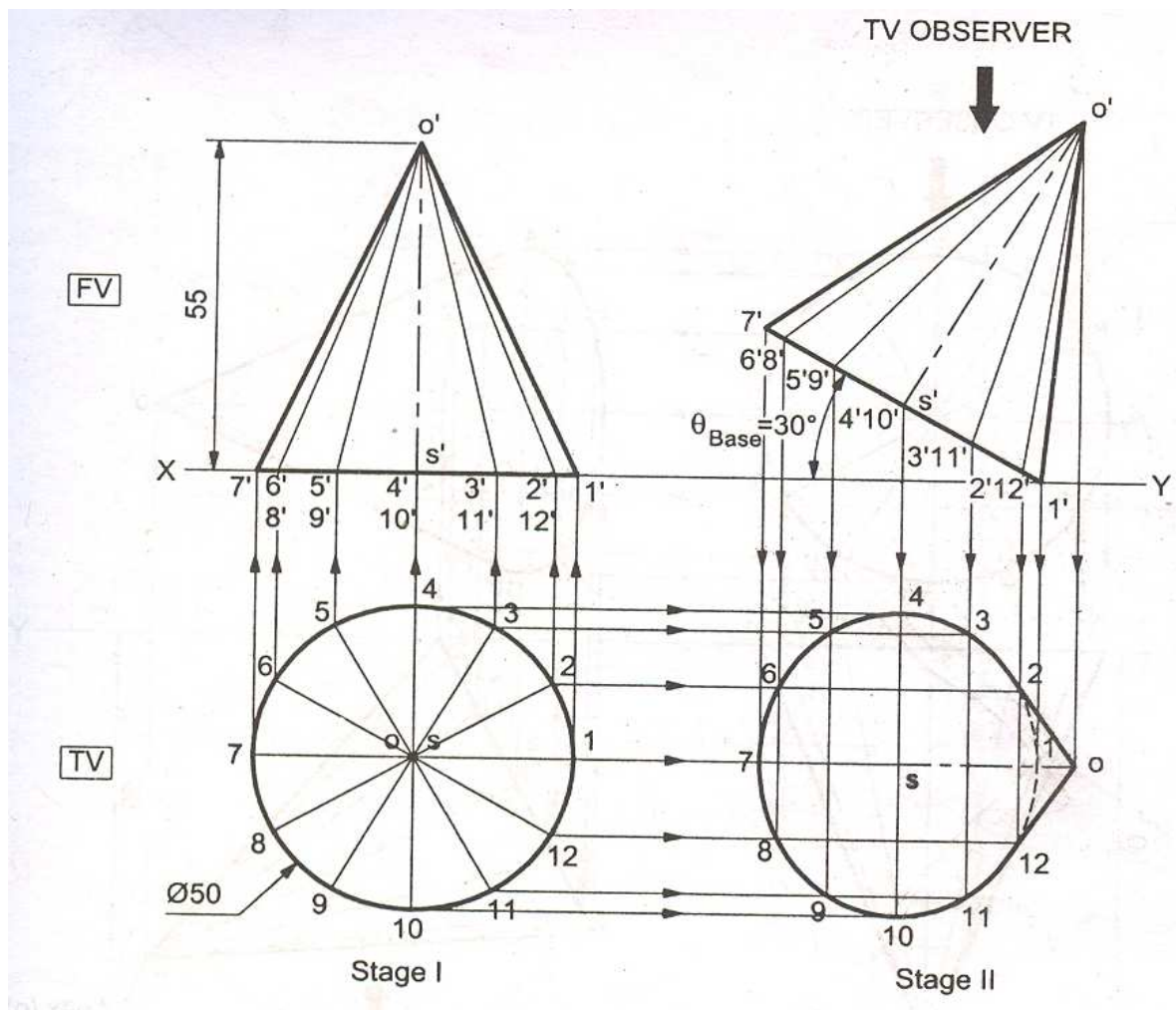
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Model Answer

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Q 1 b ii) Projections of cone problem ( 6 Marks)

Initial position: 2 Marks Final position: 4 Marks





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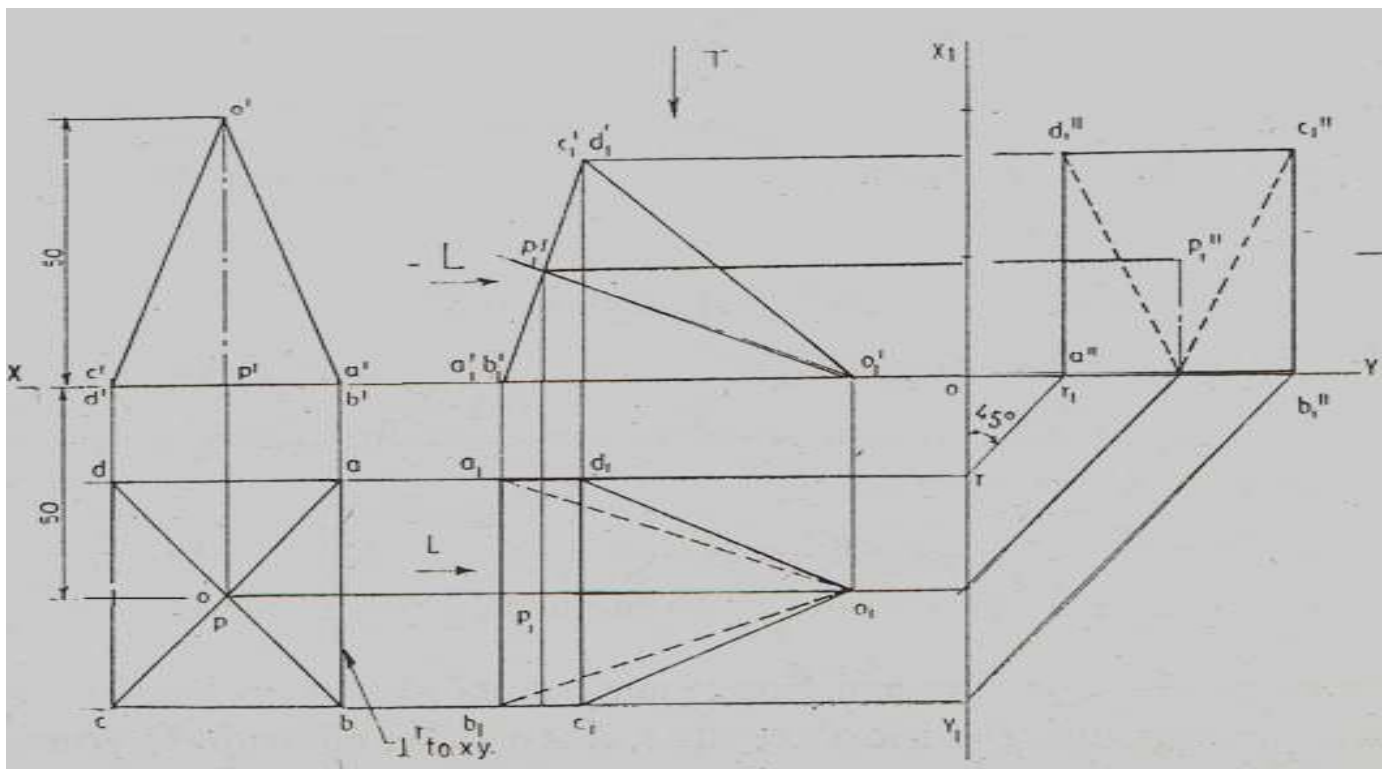
Model Answer

Engg. Drawing

Q 1 b iii) Projections of sq. Pyramid problem

( 6 Marks)

Initial position: 2 Marks    Final position: 4 Marks





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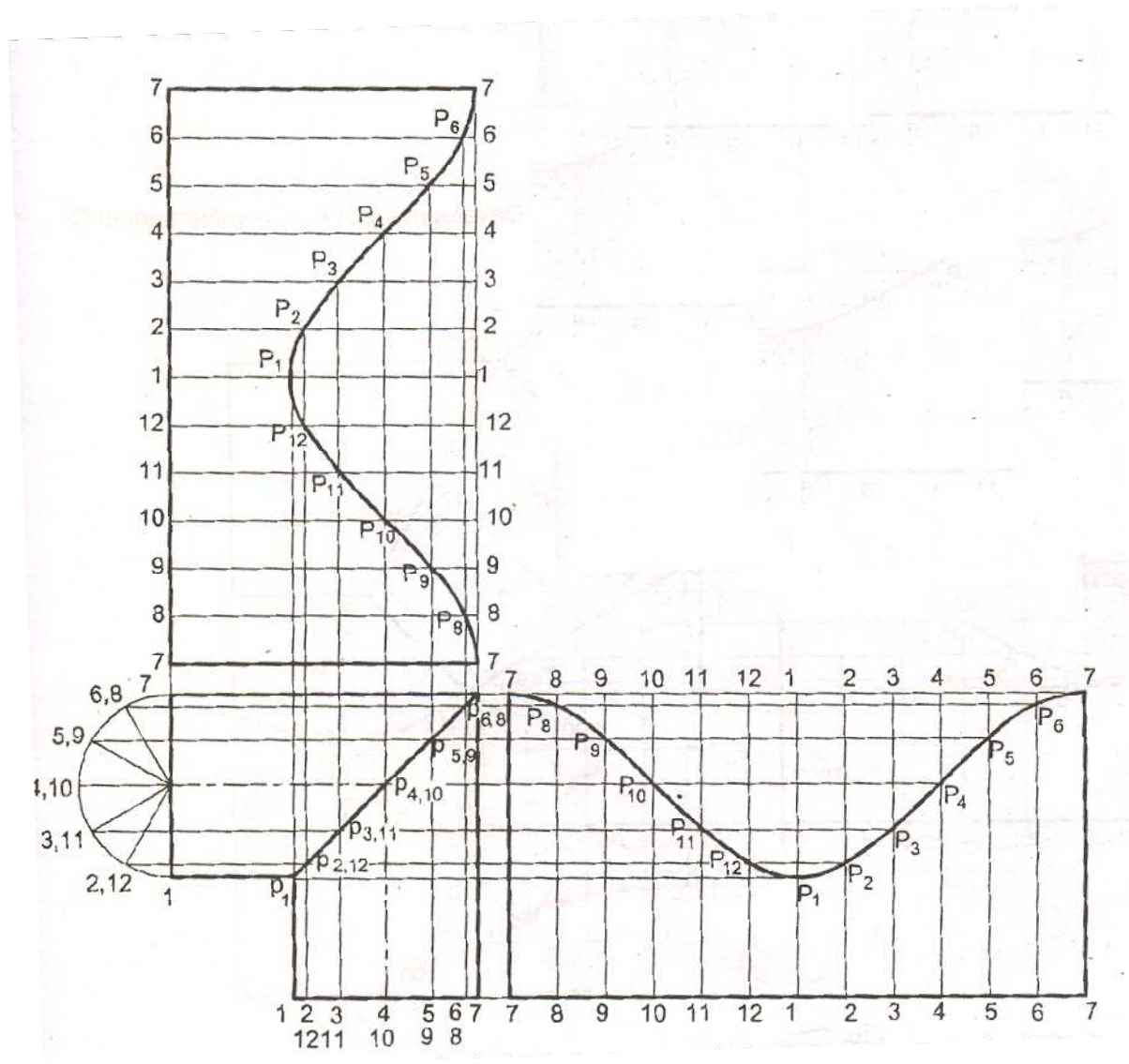
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**Model Answer**

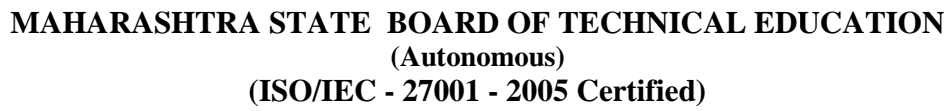
**Engg. Drawing**

**Q 2 a) Development Problem Composite cylinder (8 Marks)**

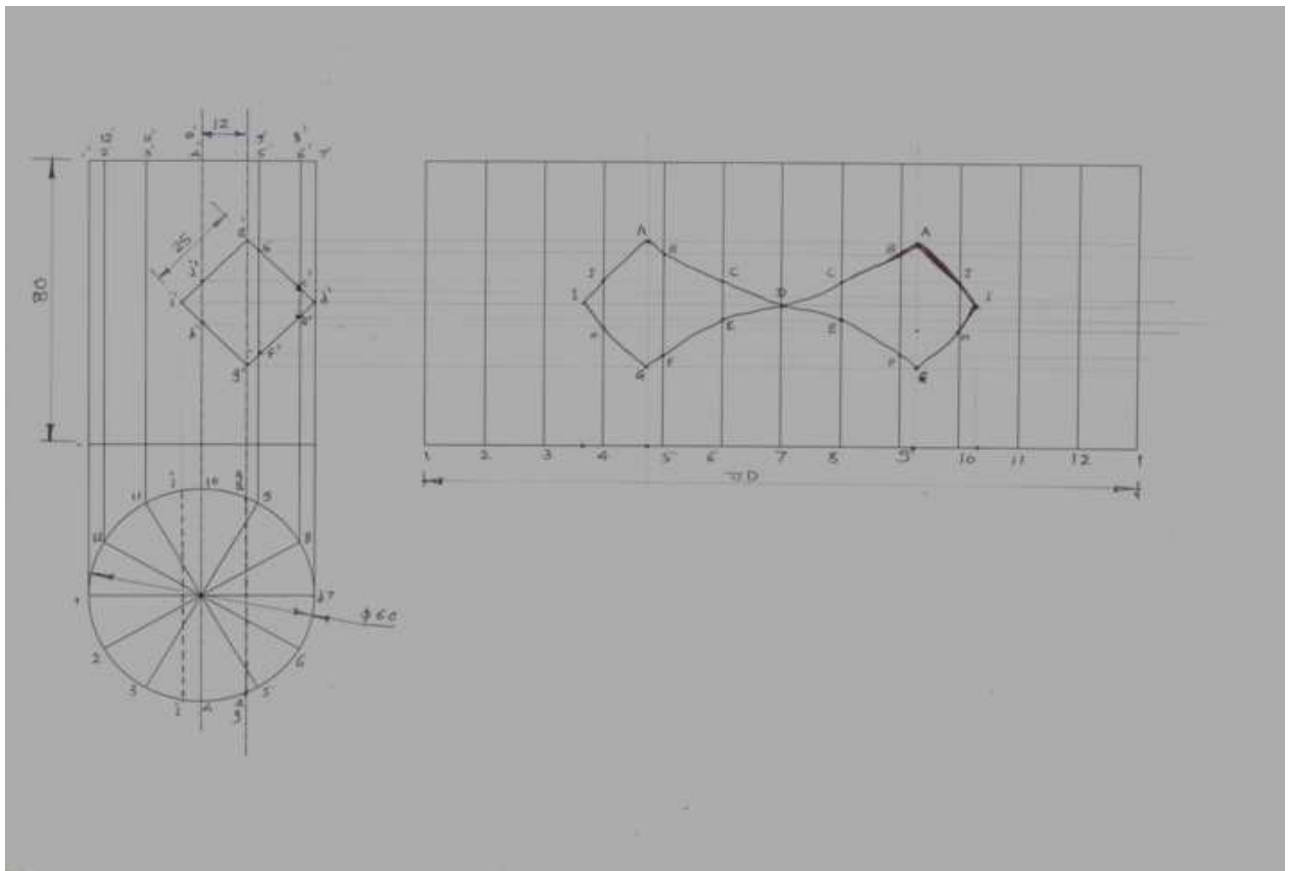
**For Initial views: 2 Marks For Each Cylinder Development : 3 Marks**



**Dia of each cylinder is 70 mm**



## Engg. Drawing





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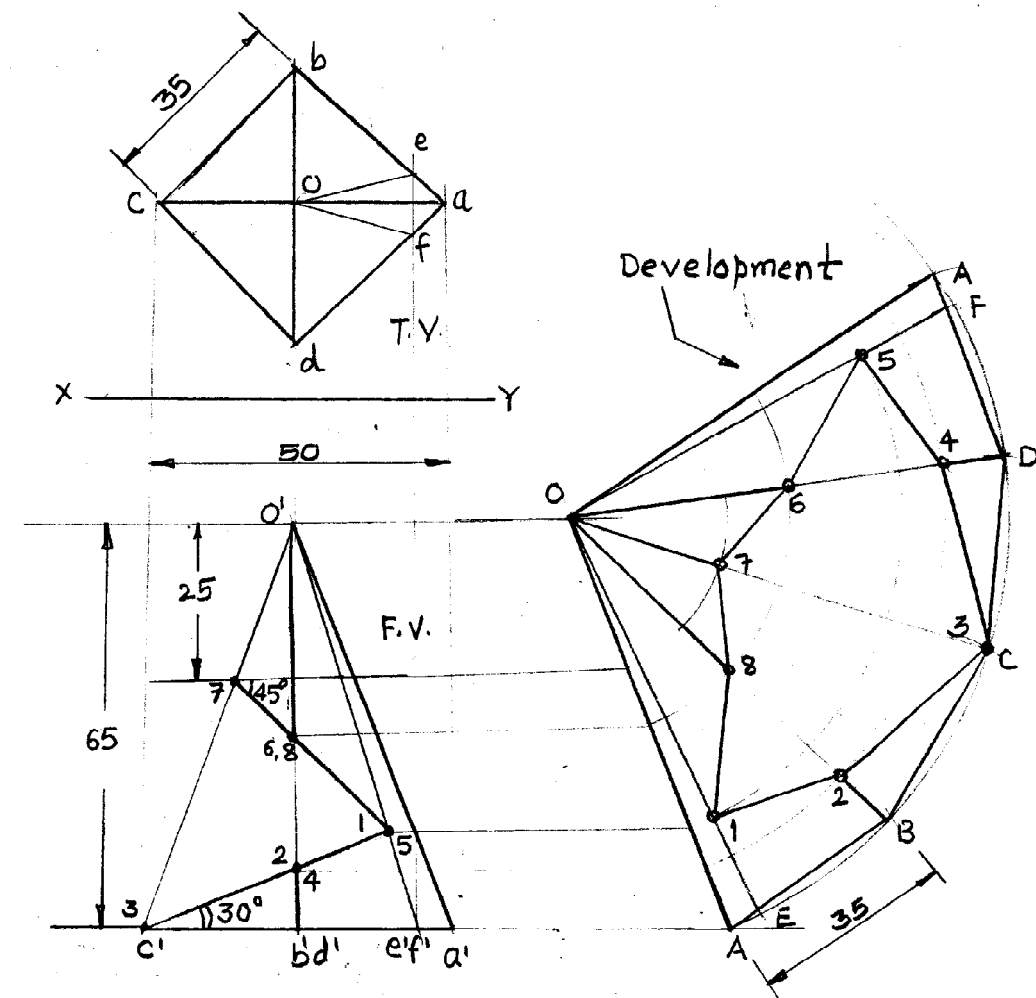
Engg. Drawing

Q2 c) Development of Sq. Pyramid

( 8 Marks )

FV : 2 Marks TV : 2 Marks

Development 4 Marks





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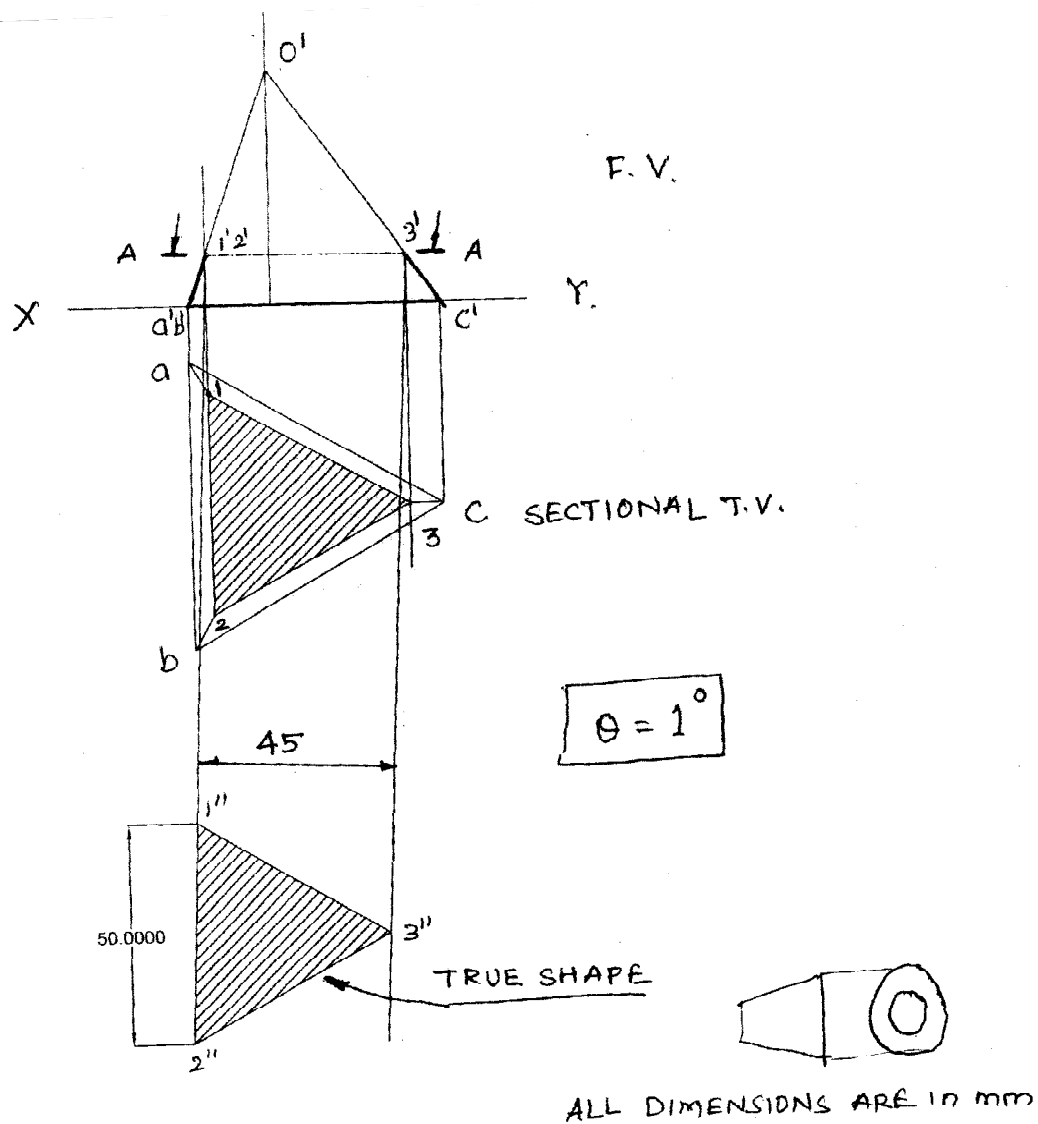
Model Answer

Engg. Drawing

3 a) Section of Tetrahedron

8 Marks

FV : 2 Marks    STV : 3 Marks    True Shape : 3 Marks







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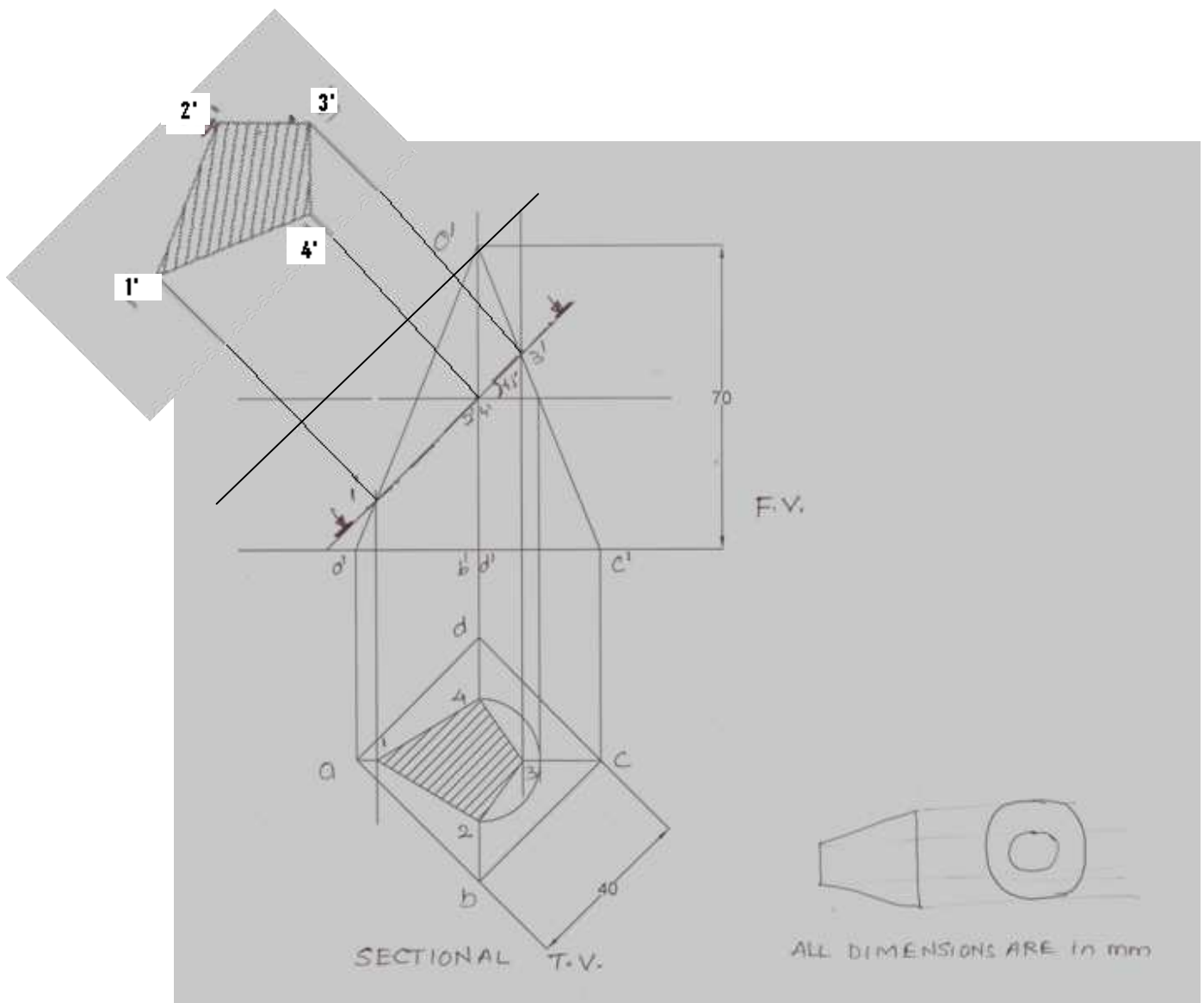
**Model Answer**

**Engg. Drawing**

**Q 3 b) Section of Sq. Pyramid**

**8 Marks**

**FV : 2 Marks    STV : 3 Marks    True Shape : 3 Marks**





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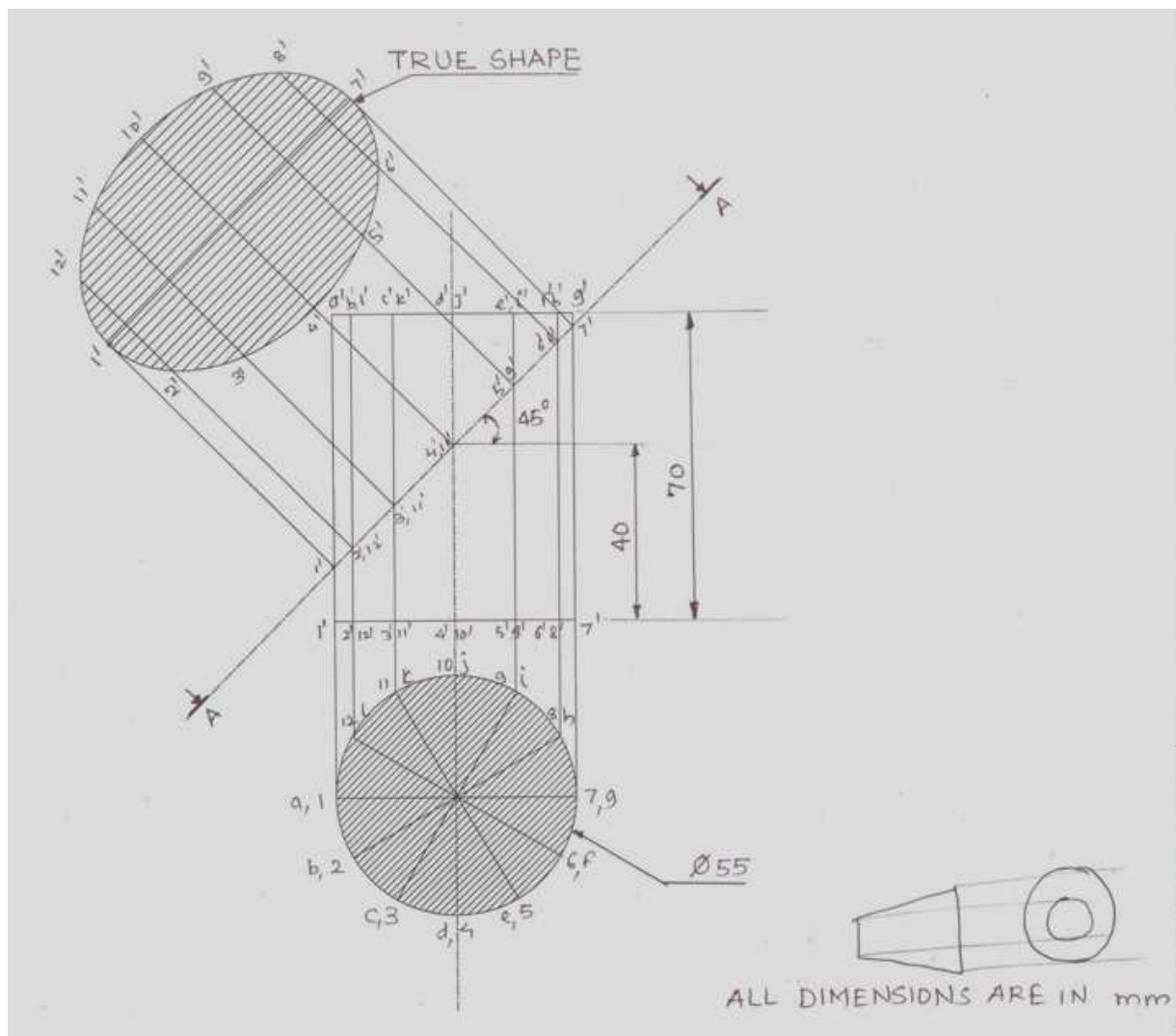
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**Q 3 c) Section of Cylinder 55 mm x 70 mm Problem ( 8 Marks)**

**FV : 2 Marks STV : 3 Marks True Shape : 3 Marks**





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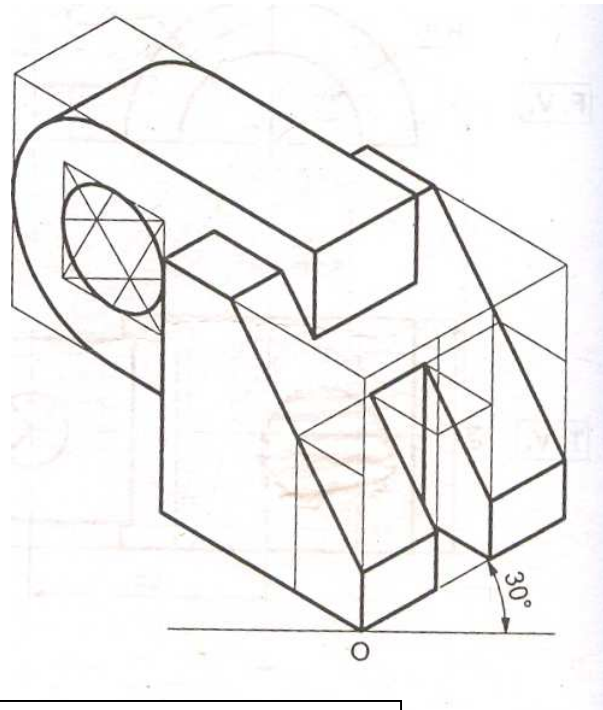
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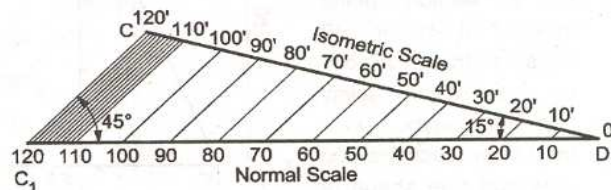
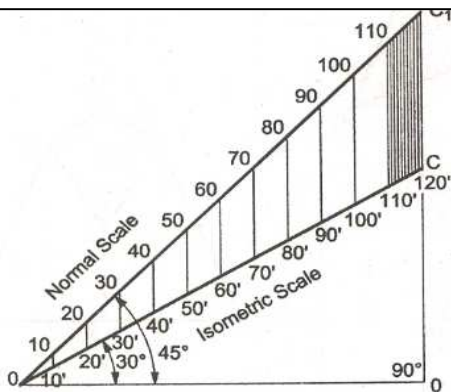
**Engg. Drawing**

**Q 4 a) Isometric view (14 + 2 Marks)**

**For Isometric view: 14 Marks Isometric scale: 2 Marks**



**Isometric scale any one**





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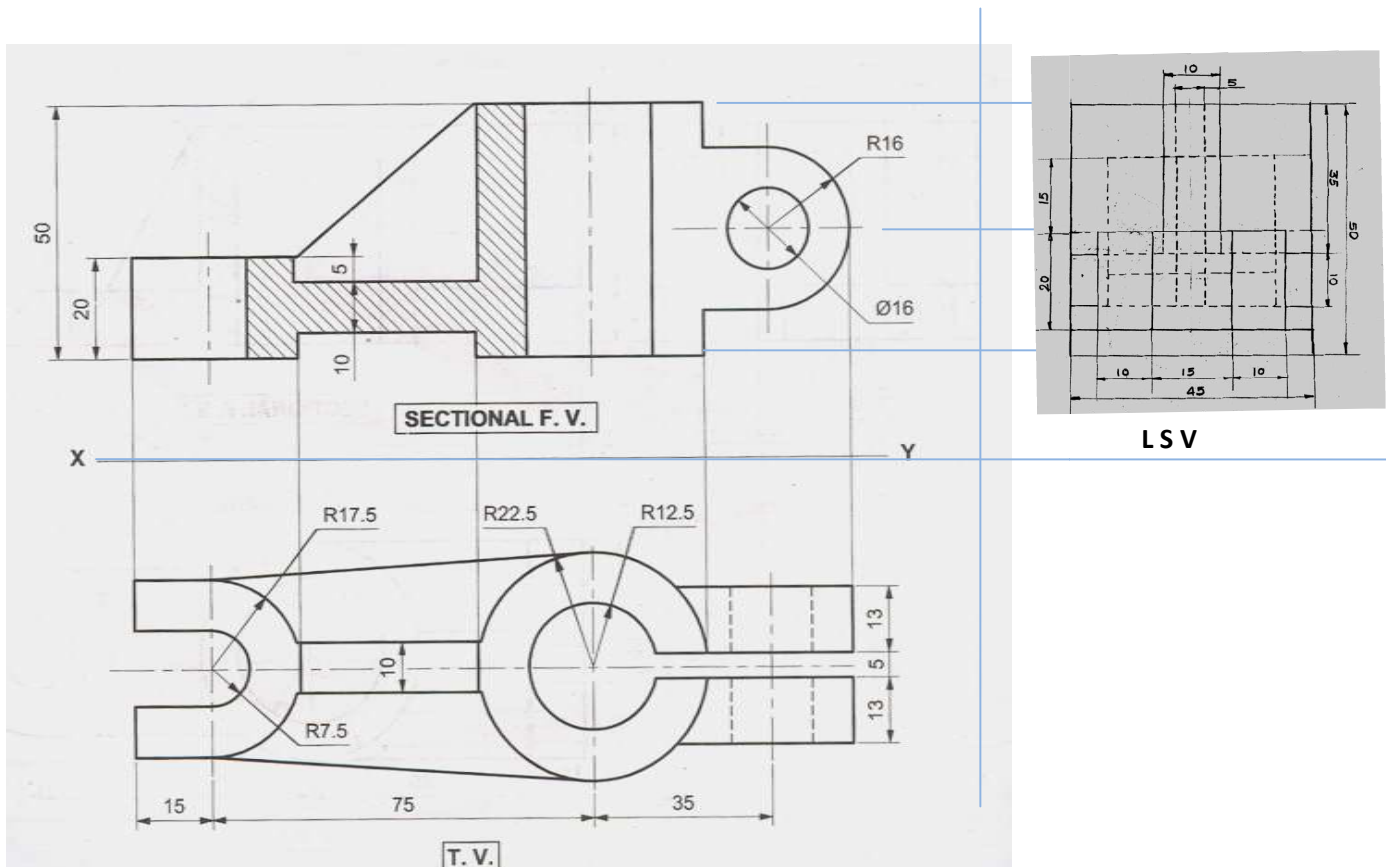
**Engg. Drawing**

**Q 5 From pictorial view Draw following views ( 16 Marks)**

**S F V : 6 marks**

**T V : 6 marks**

**LHSV : 4 marks**





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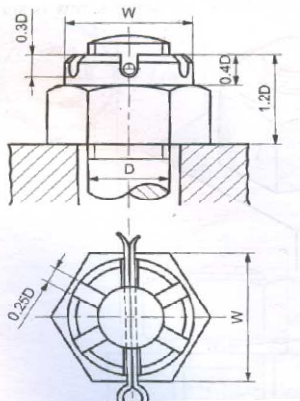
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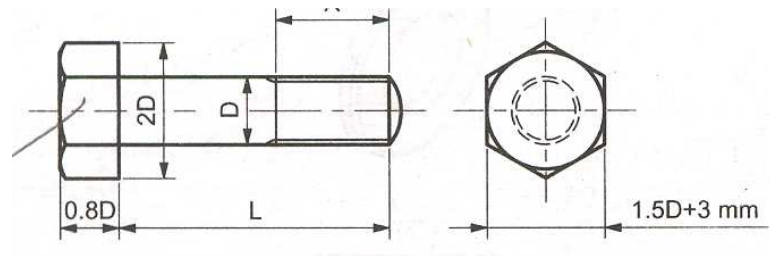
Model Answer

Engg. Drawing

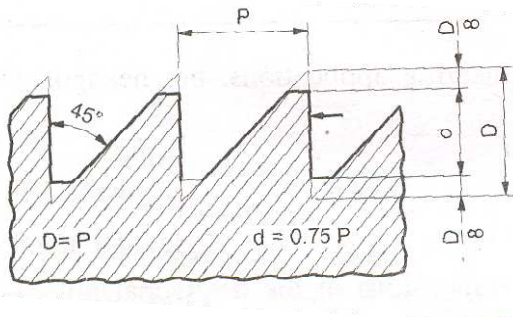
Q 6 Free Hand Sketches any FOUR ( 4 Marks Each )



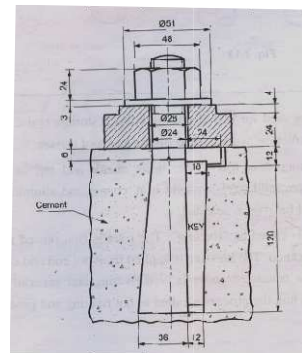
i) Castle Nut



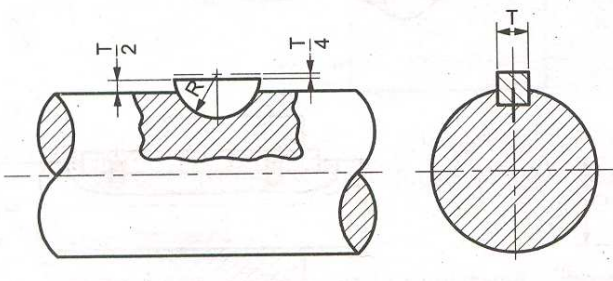
ii) Hexagonal Headed Bolt



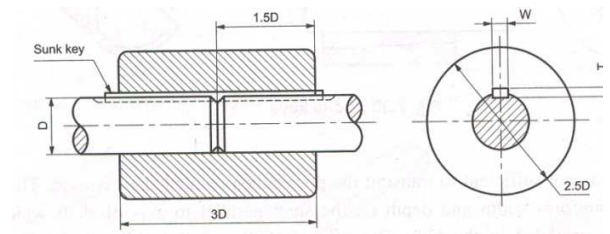
iii) Buttress thread



iv) Lewis Foundation bolt



v) Wood ruff key



vi) Muff coupling