

WINTER- 16 EXAMINATION

Model Answer

Subject Code:

17205

Important Instructions to examiners:

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more Importance (Not applicable for subject English and Communication Skills).
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.

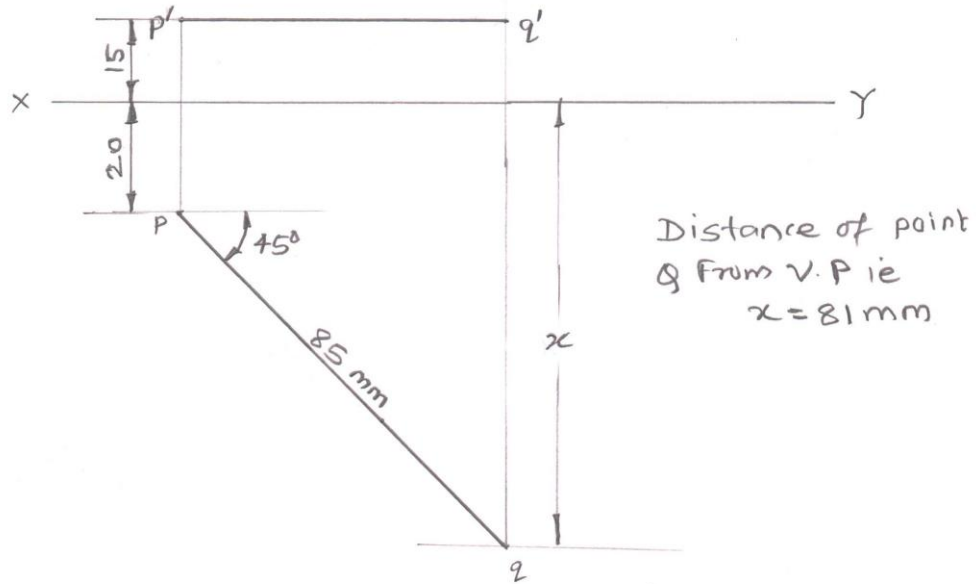
Q. No.	Sub Q. N.	Answer	Marking Scheme
1	a)		Sect. F.V = 05 & T.V = 05 mark



Q. No.	Sub Q. N.	Answer	Marking Scheme
	b)	<p>The drawing consists of three views: Front View, Top View, and Left-Hand Side View (LHSV). - Front View: Shows a cylindrical body with a hemispherical top of radius $R10$ and a conical top with a 60° angle. A hole of diameter $\phi 20$ is centered on the front face. The total height is 72 ($20 + 32 + 20$) and the diameter is 60. - Top View: Shows a rectangle with a central hole. The diameter of the hole is $\phi 20$. - LHSV: Shows the profile of the object, including the conical top and the hole. The width of the object is 50. Reference lines X-Y, X_1-Y_1, and Y_1 are used for projection.</p>	F.V. 2 M T.V. 4 M S.V. 4 M

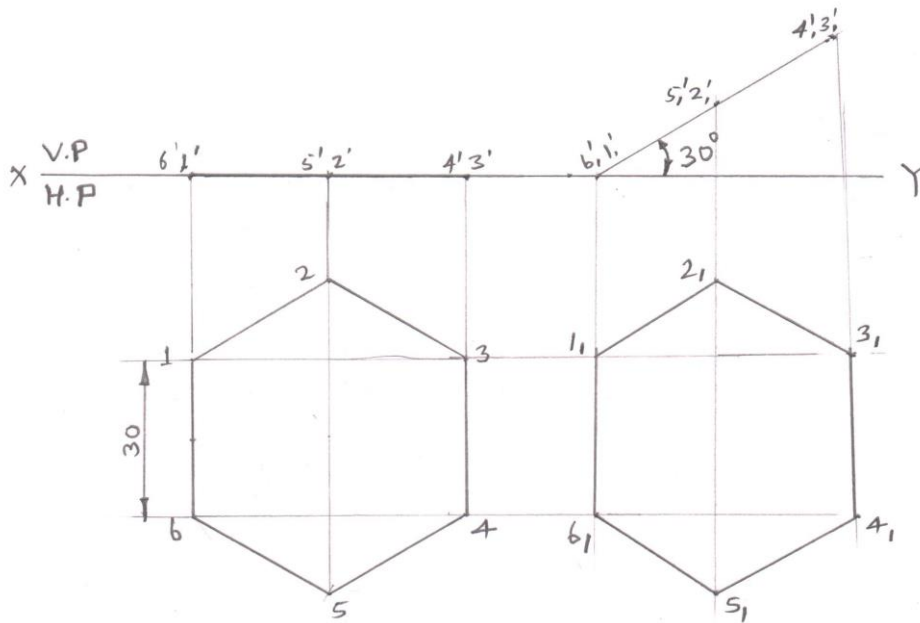
2

a)



CORRECT SOLUTION
06 MARKS
DISTANCE OF Q 2 M

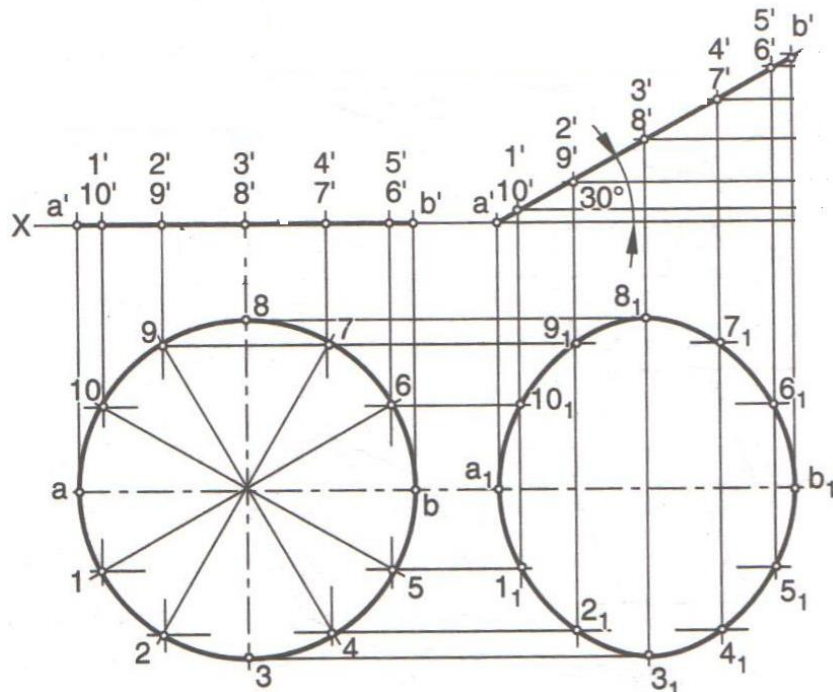
b)



INITIAL POSITION
2 M
FINAL POSITION
6 M



c)

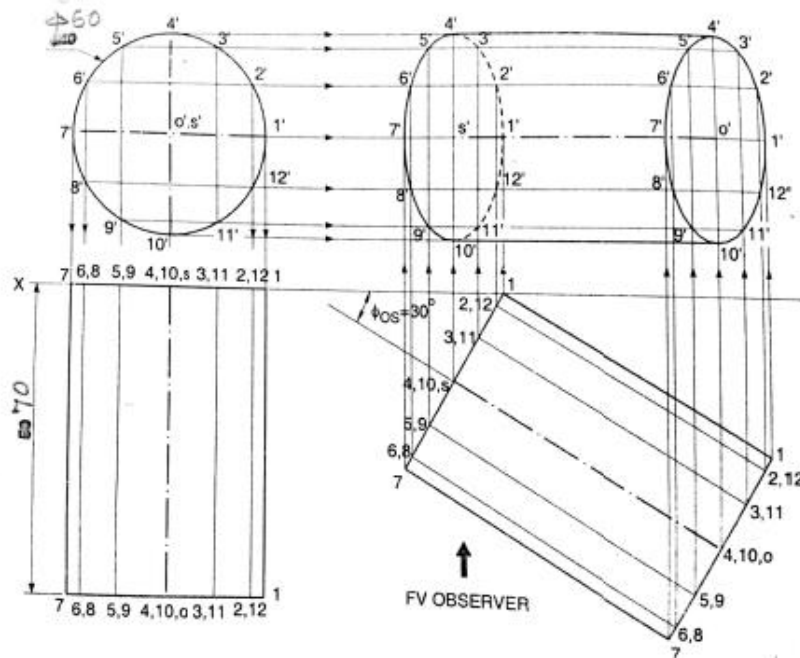


INITIAL
POSITION
2 M
FINAL
POSITION
6 M

3

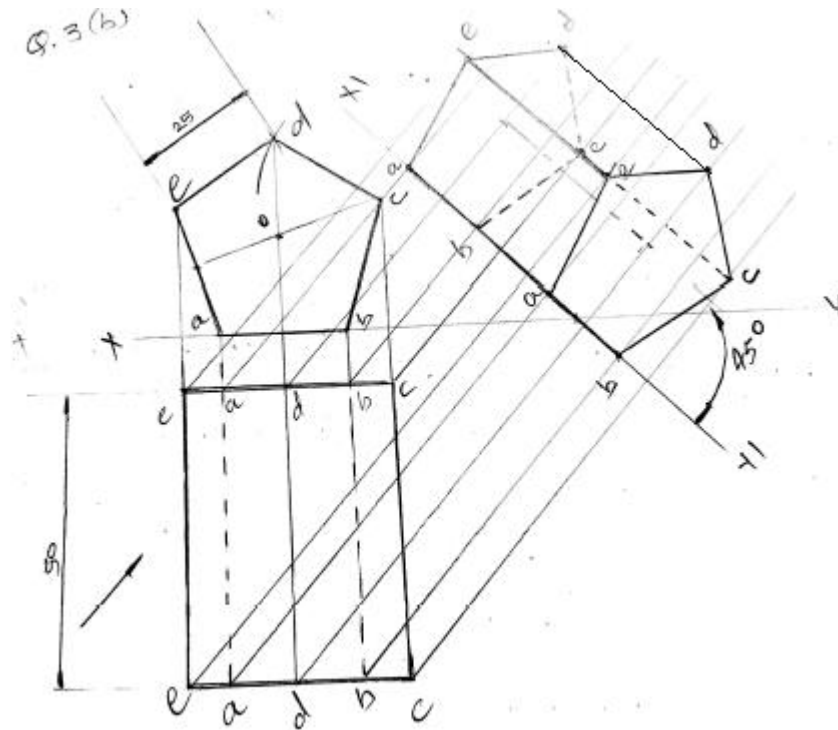
a)

Initial position drawn away from vp or xy line may be considered.



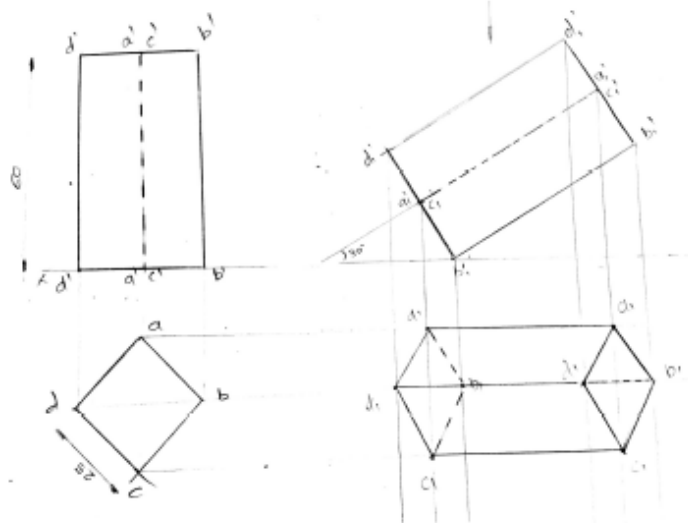
INITIAL
POSITION
2 M
FINAL
POSITION
6 M

b)



INITIAL
POSITION
2 M
FINAL
POSITION
6 M

c)

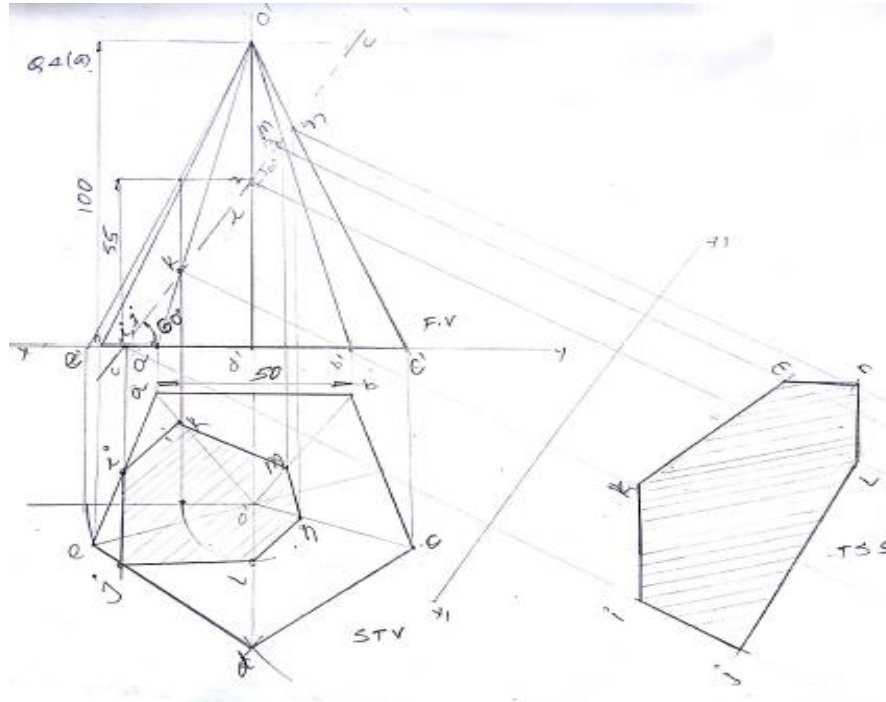


INITIAL
POSITION
2 M
FINAL
POSITION
6 M

4

a)

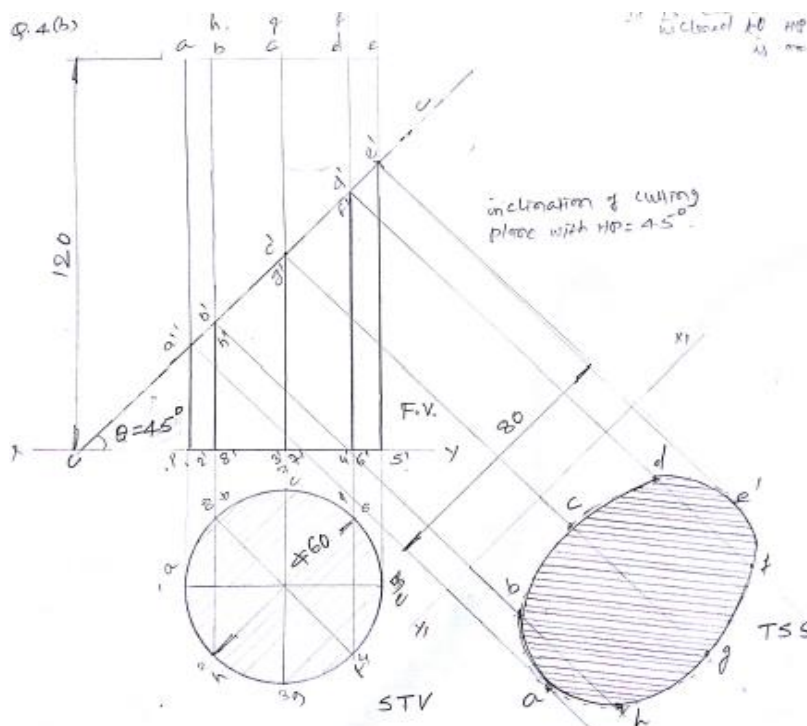
Solution drawn with side of base parallel to vp and away from xy may be considered.



FV WITH CUTTING PLANE 3M,

STV 3M, TSS 2M.

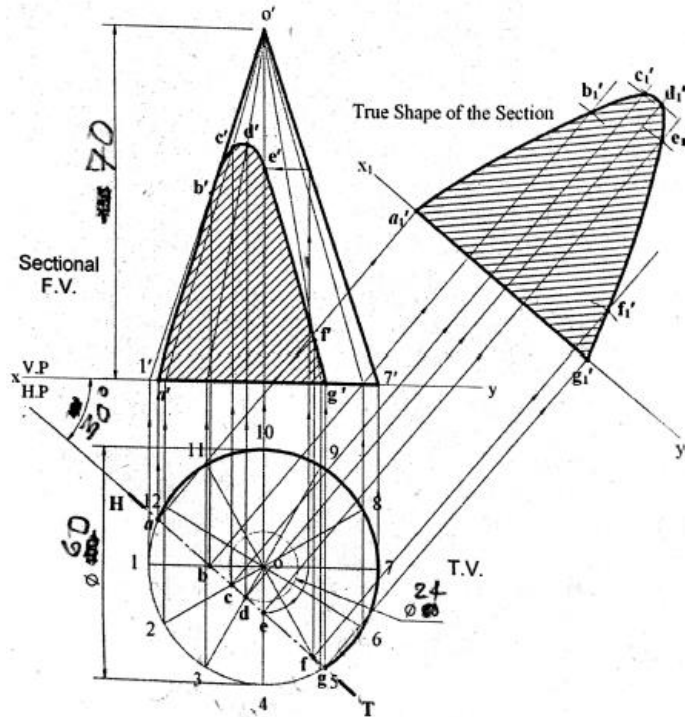
b)



FV WITH CUTTING PLANE 3M,

STV 3M, TSS 2M.

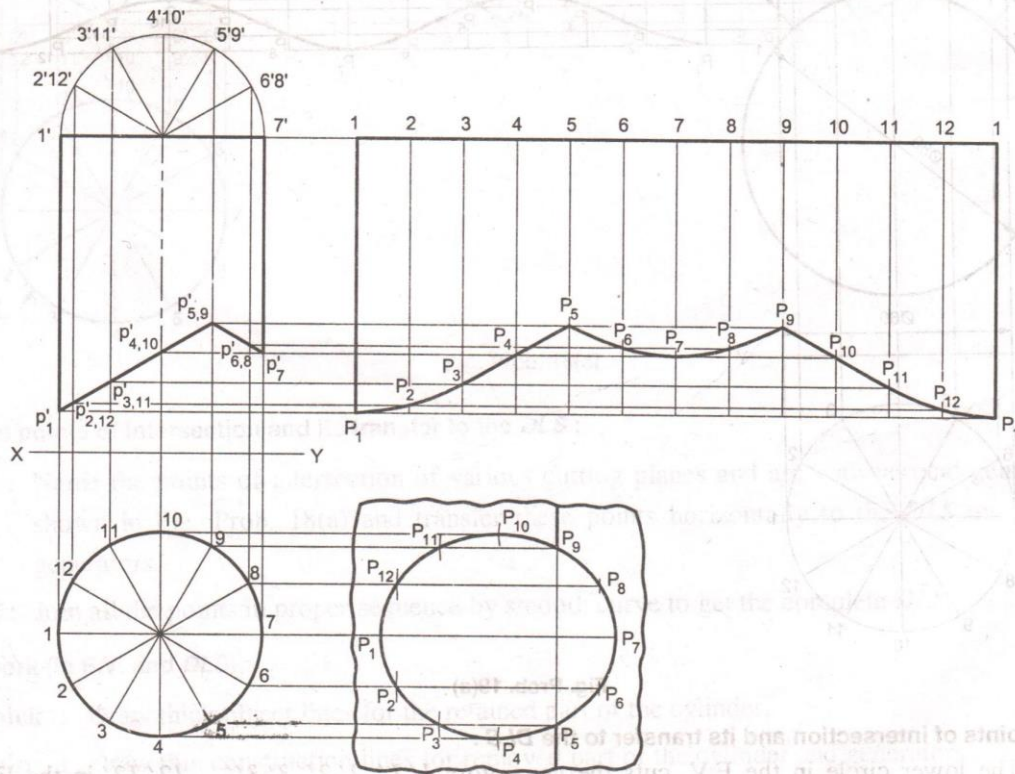
c)



SFV 3M,
TV 3M,
TSS 2M.

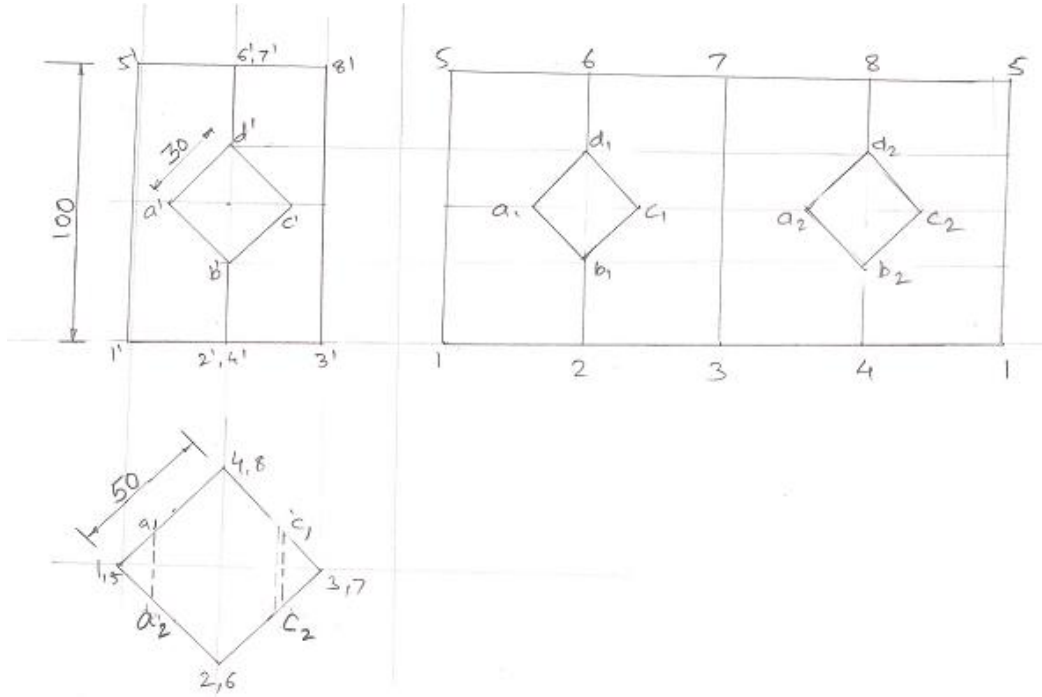
5

a)



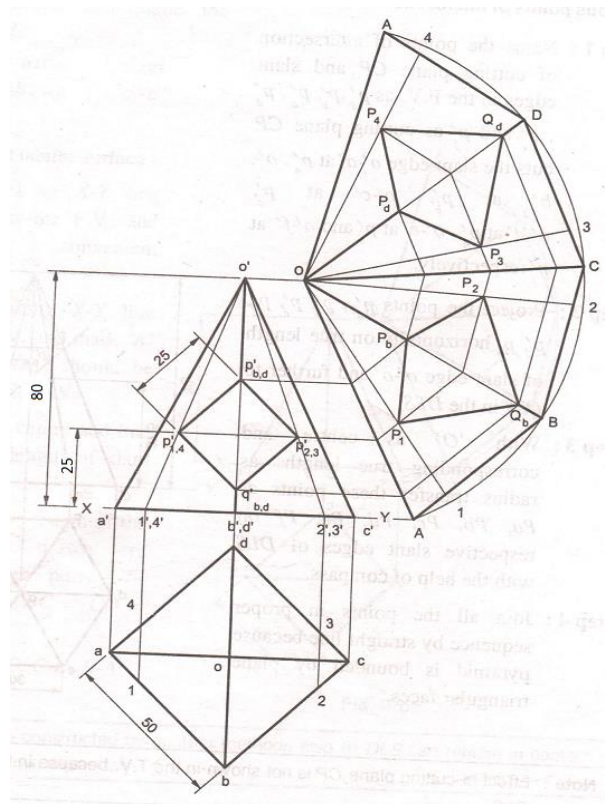
INITIAL
POSITION
2 M,
DEVELOP
MENT 6M.

b) DRILLED SQ. HOLE WITH TWO SURFACES PARALLEL TO HP MAY BE CONSIDERED.



INITIAL
POSITION
2 M,
DEVELOP
MENT 6M

c)

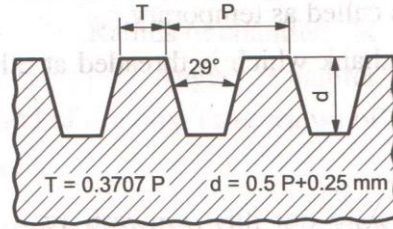


INITIAL
POSITION
2 M,
DEVELOP
MENT 6M

6

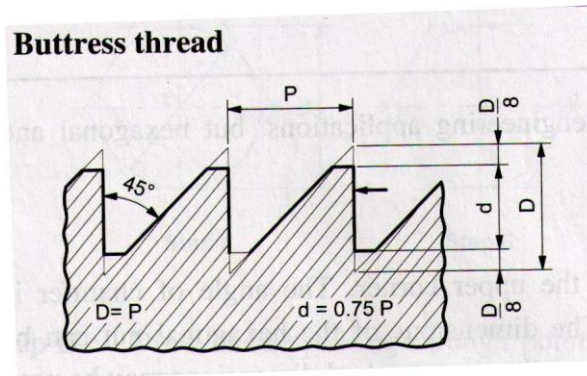
a)

Acme thread

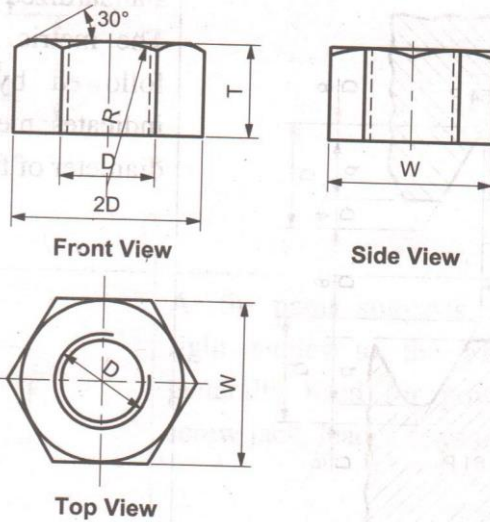


b)

Buttress thread

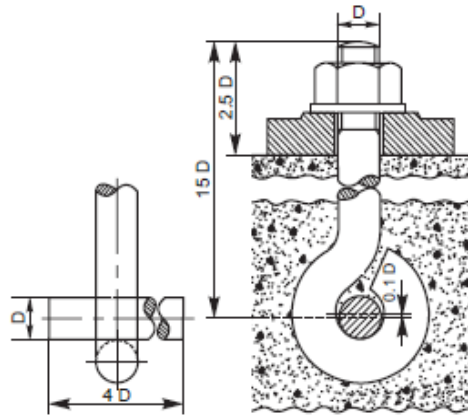


c)

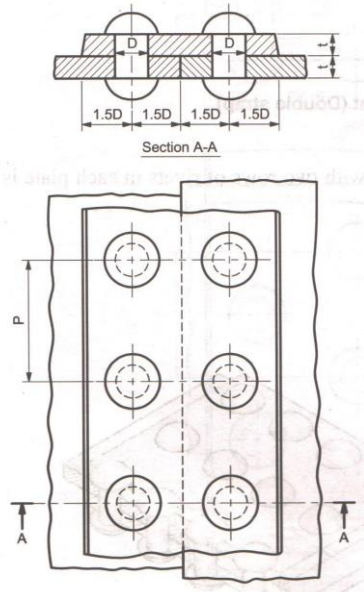


SKETCH
WITH
LABEL 4M
EACH,
ANY
FOUR.

d)



e)



f)

