

Totall No. of Questions: 5]

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## ఎిజయ : ఇంజినయరంగో త్రయంగగా <br> Subject : ENGINEERING DRAWING

[ Date: 03. 04. 2012
[ Time : 2-30 P.M. to 5-45 P.M.
[ Max. Marks : 50

FOR OFFICE USE ONLY


## General Instructions :

i) The Question-cum-Answer Booklet consists of objective and subjective types of questions having 5 questions.
ii) Space has been provided against each objective type question. You have to choose the correct choice and write the complete answer in the space provided.
iii) For subjective type questions enough space for each question has been provided. You have to answer the questions in the space.
iv) Follow the instructions given against both the objective and subjective types of questions.
v) Candidate should not write the answer with pencil. Answers written in pencil will not be evaluated. ( Except Graphs, Diagrams \& Maps )
vi) In case of Multiple Choice, Fill in the blanks and Matching questions, scratching / rewriting / marking is not permitted, thereby rendering to disqualification for evaluation.
vii) For reading the questions 15 minutes of extra time has been provided.

Instructions: i) Answer all the questions.
ii) Retain the constructional details.
iii) All dimensions are in mm .
iv) Use first angle projection only.
v) Missing dimensions may be assumed.
vi) All drawings should be drawn in drawing sheet only.

1. a) Fill in the blanks with the correct figure/word(s) by selecting from the choices given in the brackets :
$5 \times 1=5$
i) The shorter axis of an ellipse is called axis.
( minor, major, irregular )
Ans: $\qquad$
ii) Interior or hidden edges and surfaces are shown by $\qquad$ lines.
( thick, thin, dotted )
Ans: $\qquad$
$\qquad$
iii) Diagonal scale is constructed to measure $\qquad$ of dimensions.
( one unit, three units, two units )
Ans: $\qquad$
iv) $\qquad$ is the outermost part of a thread.
( Crest, Root, Flank)
Ans: $\qquad$
v) When a cone is cut by a plane parallel to one of the end generators of the cone the conic section will be $\qquad$
( hyperbola, parabola, circle )
Ans : $\qquad$
b) Match the following :
$5 \times 1=5$

## Group A

i) Temporary fastening
ii) Permanent fastening
iii) Involute
iv) Square thread
v) Boundary lines
e) riveted joints
f) general transmission of power.

Ans:
i) $\qquad$
ii) $\qquad$
iii) $\qquad$
iv) $\qquad$
v) $\qquad$
2. a) Print the given word in single stroke vertical capital letters of height 18 mm with ratio 6:5.
b) The R.F. of a scale is $1 / 50$. Construct a scale to measure metre and decimetre. Mark a distance of 4.6 m .

5
3. a) Plot an ellipse having major axis 130 mm and the focal points 100 mm apart (Intersecting arc method).
b) Inscribe six equal circles, each touching one side and two other circles in a regular hexagon of 50 mm side.
4. Draw three views of a hexagonal nut for a 24 mm diameter bolt according to approximately standard dimensions.

## OR

The pictorial view of an object is shown in figure No. 1. Draw the following orthographic views and mark the dimensions :
(i) Front view - Looking in the direction of arrow ' X '
(ii) Top view - Looking in the direction of arrow ' Y '
(iii) Side view - Looking in the direction of arrow ' $Z$ '.


Figure No. 1
[ Turn over
5. Figure No. 2 shows the front view of a strap joint with gib and cotter. Draw the same in full size ( $1: 1$ size)

Sectional elevation top half in section


## STRAP JOINT WITH GIB AND COTTER

Figure No. 2
[ Turn over

