roduction, lettering, 2D Geometrical constructions

: To write letters, draw title block in drawing sheet and constructio of 2D Geometrical entities.

ftware Used: AutoCad 2022

rocedure:

1) Firstly convert units in mm with precision 0 using "UNITS" command
2) Set limits to (0,0) and (297,420) for lower left corner and upper right corner using "LIMITS" command.
3) Set zoom all to zoom workspace using "ZOOM" command.

Question 1:

(1) Use "STYLE" command to set font to "ARIEL" for font size set 7 height and 0.7 width factor.
(2) Now use "TEXT" command to input letters in uppercase, lowercase and input numbers from 0-9.
(3) Repeat step (1) for font size 5mm and width factor 0.5 mm.
(4) Use "DIMLIN" command to display dimensions of the letters and numbers. Press Esc to exit commands.

Question 2:

(1) Use line tool to create a rectangular bar of 170×60 mms.
(2) Use "OFFSET" command to copy the horizontal lines in 6 equal segments in a form of grid.
(3) Use "OFFSET" command to copy the vertical lines in 3 equal segments in a form of grid.
(4) Use "TRIM" command to delete unnecessary lines to obtain suitable grid structure.
(5) Use "STYLE" command to edit the size of font to 7 and width facto to 0.7mm.
(6) Use "TEXT" command to write inside the grid.
(7) Use "STYLE" command to write edit the size of the font to 5 and width factor to 0.5 mm.

Use "TEXT" command to write inside the grid.
Use "DIMLIN" command to display the dimensions of the grid

uestion 3:

) Straight line (30mm)
Select line tool and drag a line from left to right and ente
30mm and press button required line is formed.

b) Vertical line (30mm)
Select line tool, drag line from up to down and enter 30mm, the
press enter button, required line is formed.

(c) Triangle (30mm)
Select polygon tool and enter '3' side, then choose edge option in
the command box, enter 30 and press enter button. The required
triangle is formed.

(d) Square (30mm)
Select polygon tool and enter '4' side, then choose edge option and
enter '30,30' and drag the figure and enter. The required
square is formed.

(e) Rectangle (50mm, 30mm)
Select polygon tool and enter '4' side, then choose edge option and
enter '50,30' and drag the figure and enter. The required
rectangle is formed.

(f) Pentagon (30mm) & Hexagon (30mm)
Select polygon tool and enter '5' for pentagon and '6' for hexagon
then choose edge option in the command tool bar and drag
the figure and enter 30 then press Enter button, the required
figures are formed.

(g) Circle (30mm = radius)
Select circle tool, 'centre radius' option then drag the figure to
enter bat . The required circle is formed.

Result:

All essential engineering graphics including alphabets, numbers to the box and 2D geometric shapes are drawn.

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