G.R. No. |

Paper Code – U117-106 (T1)

SEPTEMBER 2017 / IN - SEM (T1)
F. Y. B.TECH. (COMMON) (SEMESTER - I)
ENGINEERING GRAPHICS (ME11176)
(2017 PATTERN)

Time: [1 Hour 15 Minutes]   [Max. Marks : 30]

Instructions to candidates:
1) Answer Q.1 OR Q.2, Q.3 OR Q.4.
2) Figures to the right indicate full marks.
3) Use of scientific calculator is allowed
4) Use only half imperial size drawing sheet as answer book.
5) Retain all construction lines.
6) Assume suitable data, if necessary.
7) Marks are reserved for dimensioning and good presentation.

Q 1) a) Draw an ellipse with 110 mm long major axis and 80 mm minor axis. Use Rectangle method.   [8]
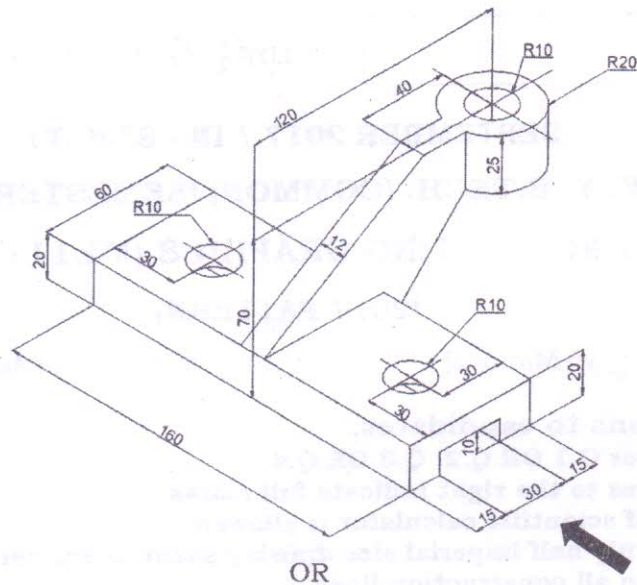
b) Draw the involute of a circle, 30 mm in diameter.   [8]

OR

Q 2) a) Draw a cycloid of a circle rolling with diameter 60 mm.   [8]

b) Draw an Archimedean spiral for one convolution with diameter of 120 mm.   [8]

Q 3) Following figures shows a pictorial view of an object. By using first angle method of projections, draw: a) Front View along direction of observer b) Left Hand Side View c) Top view d) Dimensions   [14]

OR

Q 4) The following figure shows a cast iron bracket. By using first angle projection method, draw: a) Sectional Front View (cutting plane is plane of symmetry) b) Top View c) RHSV d) Dimensions   [14]