



ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL
 School of Engineering & Technology

DEPARTMENT OF MECHANICAL ENGINEERING

CLASS:- B.E. (ME I & II)

SEM:- VII

SUBJECT:- CAD / CAM / CAE

DATE:- 25 / 10 / 2016

DURATION:- 60 min.

MARKS:- 20

CLASS TEST 02

Q.01 Attempt any two: (08 Marks)

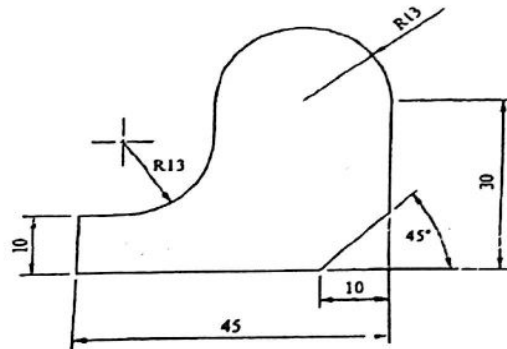
- a) Write Z-buffer Algorithm for hidden surface removal.
- b) Write short notes on Boundary Representation (B-reps).
- c) Write short note on motion statement in APT

marks	CO
04	CO-4
04	CO-5
04	CO-4

Q.02 Attempt any two: (12 Marks)

- a) A rectangular prism having coordinate points, A(1,1,1), B(8,1,1), C(8,8,1), D(1,8,1), E(1,1,4), F(8,1,4), G(8,8,4) and H(1,8,4). Calculate the coordinate points to draw isometric projection of the rectangular prism.
- b) Write a complete APT program (geometric and motion commands) to machine the outline of the geometry as shown in figure. The component is 5mm thick, the end mill cutter is used 5mm diameter, the spindle speed is 1000rpm and feed rate is 0.3mm/rev.

06	CO-3
06	CO-5



- c) Write a manual part program for finishing a forged component as shown in fig. Assume the spindle speed and feed for machining as 500rpm and 0.3 mm/rev respectively.

06 CO-5

