## King Fahd University of Petroleum and Minerals Department of Mathematics and Statistics Math-201 Semester-091 QUIZ II

NAME: S.No. ID:

Maximum Marks: 10 Section:06 Time Allowed: 15 minutes

- (1) Sketch the curve for polar equation  $r = 1 3sin\theta$ .
- (2) Find the area of the region that lies inside the cardoid  $r=1-sin\theta$  and outside the circle r=1
- (3) Find the scalar projection of  $\mathbf{b} = \langle 1, 1, 2 \rangle$  onto  $\mathbf{a} = \langle -2, 3, 1 \rangle$ .