

King Fahd University of Petroleum and Minerals Department of Mathematics and
Statistics

Math-201 Semester-163 QUIZ II

NAME:

S.No.

ID:

Maximum Marks: 10

Section:06

Time Allowed: 30 minutes

- (1) Find the area of the region that lies inside $r = 3 \cos \theta$ and outside $r = 1 + \cos \theta$.
- (2) Find an equation of a sphere if one of its diameter has ends $(2, 1, 4)$ and $(4, 3, 10)$.
- (3) Find a unit vector that has the same direction as $\langle 8, -1, 4 \rangle$.