

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:07

Time Allowed: 30 minutes

- (1) Find the area of the region that lies inside $r = 3 \sin \theta$ and outside $r = 1 + \sin \theta$.
- (2) Find an equation of a sphere if one of its diameter has ends $(2, 1, 4)$ and $(4, 3, 10)$.
- (3) Let $A(2, 3, 0)$ and $B(1, 2, -3)$ be two points in three dimensional space. Find the point $C(a, b, c)$ if $\overrightarrow{AC} = 2 \overrightarrow{CB}$.