

King Fahd University of Petroleum and Minerals  
Department of Mathematics and Statistics  
Math-201 Semester-161 QUIZ VI

NAME:

S.No.

ID:

Maximum Marks: 08

Section:23

Time Allowed: 30 minutes

(1) Evaluate  $\int \int_R y \sin(x + y) dA$ , where  $R : -\pi \leq x \leq 0, 0 \leq y \leq \pi$ .

(2) Evaluate the integral  $\int_0^8 \int_{y^{\frac{1}{3}}}^2 e^{x^4} dx dy$ .