KFUPM--Term 132(2014)

Math 201 Quiz # 5-a Time: 20 minutes Date: 13-5-2014

Name	ID #	Sr #	Sec #	Marks:- /8

Q 1. Evaluate the integral $\iint_D 2xy\,dA$, where D is the region between the circles(both centered at the origin) of radius 2 and radius 5 that lies in the first quadrant.

Q2. Evaluate the triple integral $\iiint_D 8xyz\ dv$, where $D = \{(x, y, z): 2 \le x \le 3,\ 1 \le y \le 2,\ 0 \le z \le 1\}$.

KFUPM-----Term 132(2014)

Math 201 Quiz # 5-b Time: 20 minutes Date: 13-5-2014

Name	ID #	Sr #	Sec.	Marks:- /8

Q 1. Evaluate the integral $\iint_D e^{x^2+y^2}\, dA$, *where D is the unit circle centered at the origin.*

Q2. Evaluate the triple integral $\int_1^{e^3} \int_1^{e^2} \int_0^{ln2} \frac{e^z}{xy}\, dzdydx$.

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Math 201 Quiz # 5-c Time: 20 minutes Date: 13-5-2014

Name	ID #	Sr #	Sec #	Marks:- /8

Q 1. Evaluate the integral $\int_0^1 \int_0^{\sqrt{1-x^2}} \frac{1}{1+x^2+y^2}\, dydx$, by converting it into polar coordinates.

Q2. Evaluate the triple integral $\int_1^{e^3} \int_1^{e^2} \int_1^{e} \frac{e^2}{xyz}\, dxdzdy$.