KFUPM--Term 172

Math 201 Quiz 6(a) Time: 25 minutes Date: 29- 4- 2018

Name	ID	Sr	Sec. 6	Marks:-

Q 1. Use polar coordinates to evaluate $I = \int_0^1 \int_0^{\sqrt{1-y^2}} \cos(x^2 + y^2)\, dx\, dy.$

Q2. Evaluate $I = \int_0^1 \int_0^1 \int_{x^2}^1 xze^{zy^2}\, dy\, dx\, dz$

KFUPM—Term 172

Math 201 Quiz 6(b) Time: 25 minutes Date: 29- 4- 2018

Name	ID	Sr	Sec.6	Marks:-

Q 1. Use polar coordinates to evaluate $\int\int_D e^{x^2+y^2}\, dA$ where D is the unit circle centered at the origin.

Q2. Evaluate $I = \int_0^{\pi}\int_0^{\pi}\int_0^{\pi} \cos(u+v+w)\ \ du\, dv\, dw$

KFUPM—Term 172

Math 201 Quiz 6(c) Time: 25 minutes Date: 29- 4- 2018

Name	ID	Sr	Sec. 8	Marks:

Q 1. Use polar coordinates to evaluate $\int_0^1 \int_0^{\sqrt{1-y^2}} \cos\sqrt{x^2+y^2}\, dx\, dy$

Q2. Evaluate $I = \int_0^1 \int_{\sqrt[3]{z}}^1 \int_0^{\ln 3} \frac{e^{2x}\sin \pi y^2}{y^2}\, dx\, dy\, dz$

KFUPM—Term 172

Math 201 Quiz 6(d) Time: 25 minutes Date: 29- 4- 2018

Name	ID	Sr	Sec. 8	Marks:-

Q 1. Use polar coordinates to evaluate $\int_0^1 \int_0^{\sqrt{1-y^2}} \sin(x^2+y^2)\, dx\, dy$.

Q2. Evaluate $I = \int_0^7 \int_0^2 \int_0^{\sqrt{4-q^2}} \frac{q}{r+1}\, dp\, dq\, dr$