

KFUPM--Term 162

Math 201

Quiz 5(a)

Time: 25 minutes

Date: 16- 5- 17

Name	ID	Sr	Sec. 7	Marks:- /7
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Q 1. Sketch the region of integration and evaluate the integral $\int_0^8 \int_{\sqrt[3]{x}}^2 \frac{1}{y^4+1} dy dx$.

Q2. Evaluate $\int_0^4 \int_0^2 \int_0^{x/2} \frac{\cos x^2}{\sqrt{z}} dy dx dz$.

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Quiz 5(b)

Time: 25 minutes

Date: 16- 5- 17

Name	ID	Sr	Sec.7	Marks:- /7
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Q 1. Sketch the region of integration in st-plane and evaluate the integral

$$\int_0^1 \int_0^{\sqrt{1-s^2}} t \, dt \, ds.$$

Q2. Evaluate $\int_0^2 \int_0^{4-x^2} \int_0^x \frac{\sin 2z}{4-z} \, dy \, dz \, dx.$

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Quiz 5(c)

Time: 30 minutes

Date: 16- 5- 17

Name	ID	Sr	Sec. 13	Marks: /7
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Q 1. Sketch the region of integration and evaluate the integral

$$\int_0^2 \int_{y/2}^{\sqrt{\ln 3}} e^{x^2} dx dy.$$

Q2. Evaluate $\int_1^2 \int_0^{2z} \int_0^{\ln x} x e^{-y} dy dx dz.$

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Quiz 5(d)

Time: 25 minutes

Date: 16- 5- 17

Name	ID	Sr	Sec. 13	Marks:- /7
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Q 1. Sketch the region of integration and evaluate the integral

$$\int_0^2 \int_x^2 2y^2 \sin xy \, dy \, dx.$$

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