

**KFUPM--Term 182**

Math 102

Quiz # 3(a)

Time: 25 minutes Date: 13-3-2019

Name	ID #	Sr #	Sec. 42	Marks(out of 14):-
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Q1. Evaluate the integral  $\int_0^1 \frac{2}{2x^2+3x+1} dx$  by partial fractions

Q2. Evaluate the integral  $\int_1^4 \sqrt{x} \ln x dx$

Q3. Determine whether  $\int_1^{\infty} \frac{dx}{(1+2x)^3}$  converges or diverges

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Math 102

Quiz # 3(b)

Time: 25 minutes Date: 13-3-2019

Name	ID #	Sr #	Sec. 42	Marks(out of 14):-
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Q1 Evaluate the integral  $\int_0^1 \frac{x-4}{x^2-5x+6} dx$  by partial fractions

Q2 Evaluate the integral  $\int \frac{dx}{1+e^x}$

Q3 Determine whether  $\int_{-\infty}^{\infty} x e^{-x^2} dx$  converges or diverges

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Quiz # 3(c)

Time: 25 minutes

Date: Date: 13-3-2019

Name	ID #	Sr #	Sec. 25	Marks(out of 14):-
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Q1 Evaluate the integral  $\int_3^4 \frac{x^3-2x^2-4}{x^3-2x^2} dx$  by partial fractions

Q2 Evaluate the integral  $\int \sqrt{\frac{1+x}{1-x}} dx$

Q3 Find  $\int_0^1 x \ln x dx$

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Quiz # 3(d)

Time: 25 minutes

Date: 13-3-2019

Name	ID #	Sr #	Sec. 25	Marks(out of 14):-
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Q1 Evaluate the integral  $\int_1^2 \frac{3x^2+6x+2}{x^2+3x+2} dx$  by partial fractions

Q2 Evaluate the integral  $\int \frac{\sqrt{x}}{1+x^3} dx$

Q3 Evaluate  $\int_0^{\infty} \frac{dx}{\sqrt[4]{1+x}}$  if possible