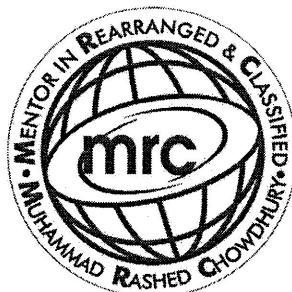


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**MODULAR
MATHEMATICS/CORE-1
TOPIC-Integration**

1. Find $\int (6x^2 + 2 + x^{-\frac{1}{2}}) dx$, giving each term in its simplest form.

7-6

(4)



7-6

Q1

(Total 4 marks)



1. Find

$$\int (8x^3 + 4) dx$$

JN-14

giving each term in its simplest form.

(3)

JN-14

Q1

(Total 3 marks)



1. Find $\int (2 + 5x^2) dx$.

Ju-8

(3)



Ju-8

Q1

(Total 3 marks)



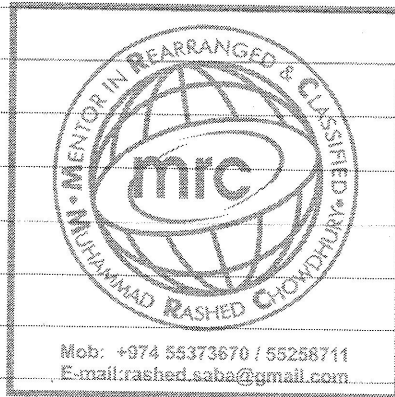
2. Find

$$\int (8x^3 + 6x^{\frac{1}{2}} - 5) dx$$

32-10

giving each term in its simplest form.

(4)



Q2

(Total 4 marks)



1. Find

$$\int \left(6x^2 + \frac{2}{x^2} + 5 \right) dx$$

JN-12

giving each term in its simplest form.

(4)



JN-12

Q1

(Total 4 marks)



1. Find $\int(3x^2 + 4x^5 - 7) dx$.

Ja-08 (4)



Ja-8

Q1

(Total 4 marks)



2. Find

$$\int \left(10x^4 - 4x - \frac{3}{\sqrt{x}} \right) dx$$

giving each term in its simplest form.

JN-13

(4)

Lined area for student response.

(Total 4 marks)

Q2



1. Find

$$\int \left(2x^4 - \frac{4}{\sqrt{x}} + 3 \right) dx$$

7N-16

giving each term in its simplest form.

(4)

7N-16

Q1

(Total 4 marks)



1. Find

$$\int \left(2x^5 - \frac{1}{4x^3} - 5 \right) dx$$

giving each term in its simplest form.

JK-17 (4)

A large area with horizontal lines for writing the answer.

JK-17



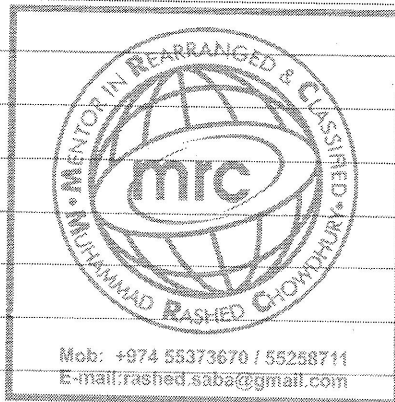
2. Find

$$\int (12x^5 - 3x^2 + 4x^{\frac{1}{3}}) dx$$

giving each term in its simplest form.

(5)

7a-11



Q2

(Total 5 marks)



2. Find $\int (12x^5 - 8x^3 + 3) dx$, giving each term in its simplest form.

(4)

Jan-09



Q2

(Total 4 marks)



6. (a) Show that $(4 + 3\sqrt{x})^2$ can be written as $16 + k\sqrt{x} + 9x$, where k is a constant to be found.

(2)

(b) Find $\int(4 + 3\sqrt{x})^2 dx$.

(3)



Q6

(Total 5 marks)

