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Quiz-4 (Spring-2026)

Student ID: ..... Student Name: .....

Course Code: MAT 101 Course Title: Mathematics I Section: 23-A

Date: 19/04/2026 Full Marks: **15 Marks** Time: **30 min**

Answer all the following questions

Question 1: Simplify the following expressions into partial fractions

i) $\frac{2x+12}{(x-2)(x+2)}$ **[4 marks]**

ii) $\frac{3x^2+7}{(x-1)(x^2+4)}$ **[6 marks]**

Question 2: Evaluate the following integrations

i) $\int \frac{x^4+3\sqrt{x}-2}{x^3}\,dx$ **[2 marks]**

ii) $\int \frac{1+\cos x}{x+\sin x}\,dx$ **[3 marks]**

Start Writing from here