

EE203 Mock Final Examination

- 1(a) **Show** that the following ordinary differential equation is an **exact** differential equation. Then find its **general solution**:

$$x \frac{dy}{dx} + 3y = \frac{e^x}{x^2}$$

(10 marks)

- (b) **Show** that $y_1(x) = e^{-2x}$ is **one solution** of the following homogenous differential equation:

$$y'' + 4y' + 4y = 0.$$

Determine the second solution by using **Reduction of Order** method **or otherwise**. Find the general solution of the above differential equation.

(8 marks)

- 2(a) Find the **general solution** for the following non-homogenous differential equation:

$$y'' + 2y' + 5y = 3 \sin 2t$$

(14 marks)

- (b) Solve the following **separable** variables differential equation:

$$\frac{2dy}{dx} = \frac{y(x+1)}{x}$$

(6 marks)

- 3(a) Consider the **following IVP** consisting of the differential equations with initial conditions:

$$y'' + 16y = 0; \quad y(0) = -10 \text{ and } y'(0) = 3$$

Find the solution $y(t)$ by using **Laplace and Inverse Laplace method**.

(12 marks)

- (b) Determine $F(x)$, which is the **Laplace transform** of $f(t)$ defined by:

$$f(t) = \begin{cases} \sin t, & 0 \leq t < \pi \\ 0, & t \geq \pi \end{cases}$$

(8 marks)

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