

## 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)

# Engineering Mathematics Quiz Questions With Answers

**CL Gary**



## **Engineering Mathematics Quiz Questions With Answers:**

## **Engineering Mathematics Quiz Questions With Answers** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Engineering Mathematics Quiz Questions With Answers**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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