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SECOND SEMESTER

SUPPLEMENTARY SEMESTER EXAMINATION

Roll No:.....

B.Tech. (COMMON FOR A&B)

AUGUST-2018

MA - 102 MATHEMATICS II

Max. Marks: 50

Time Allowed: 3hrs

Note: Answer ALL questions. Select any TWO from each question. All questions carry equal marks. Only simple scientific calculator is allowed. Assume missing data if any.

1. (a) Find the eigen values and eigen vectors of the matrix

$$A = \begin{pmatrix} 3 & -4 & 4 \\ 1 & -2 & 4 \\ 1 & -1 & 3 \end{pmatrix}$$

- (b) Verify Cayley-Hamilton theorem and find the inverse of

$$A = \begin{pmatrix} 13 & -3 & 5 \\ 0 & 4 & 0 \\ -15 & 9 & -7 \end{pmatrix}$$

- (c) Examine for the consistency of the following system of linear equations using transformation method

$$2x + 6y + 11 = 0; \quad 6x + 20y - 6z + 3 = 0; \quad 5y - 18z + 1 = 0,$$

If consistent, find the solutions.

2. (a) Solve $(D^2 + 6D + 9)y = \frac{e^{-3x}}{x^2}$, where $D = d/dx$.

- (b) Apply the method of variation of parameters to solve $(D^2 + 1)y = \operatorname{cosec} x$.

- (c) Solve $x^2 \frac{d^2 y}{dx^2} + x \frac{dy}{dx} + y = \sin(\log x^2)$.

3. (a) Find the series solution of $9x(1-x) \frac{d^2 y}{dx^2} - 12 \frac{dy}{dx} + 4y = 0$.

- (b) State and prove orthogonality of Bessel functions.

- (c) State and prove Rodrigue's formula.

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Ami Jsc Mathematics Ques 2014 Chi Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Ami Jsc Mathematics Ques 2014 Chi**," 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 will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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