

**B.Tech. (Sem. - 1<sup>st</sup>/2<sup>nd</sup>)**  
**ENGINEERING MATHEMATICS - I**  
**SUBJECT CODE : AM - 101 (2K4 & ONWARDS)**  
**Paper ID : [A0111]**

[Note : Please fill subject code and paper ID on OMR]

**Time : 03 Hours**

**Maximum Marks : 60**

**Instruction to Candidates:**

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Five** questions from Section - B & C.
- 3) Select atleast two questions from Section - B & C.

**Section - A**

**Q1)**

**[Marks : 2 each]**

- a) Test for the convergence of the series  $\sum \left( \frac{n}{n+1} \right)^{n^2}$ .
- b) Using double integration, find area enclosed between the curves  $y^2 = x^3$  and  $x = y$ .
- c) If  $u = x^3 + xy$  and  $v = xy$ . Find  $\frac{\partial(u,v)}{\partial(x,y)}$ .
- d) Prove  $\Gamma(n+1) = n\Gamma(n)$ , where  $n > 0$ .
- e) Find the curvature of curve  $y^2 = x^3 + 8$  at the point (1, 3).
- f) Find the cube roots of unity.
- g) Evaluate  $\int_0^2 \int_1^2 \int_0^y xyz \, dx dy dz$ .
- h) Define homogeneous function with an example.
- i) Find the centre and the radius of the sphere  $x^2 + y^2 + z^2 - 6x + 8y - 10z + 1 = 0$ .
- j) Expand  $\tan x$  in powers of  $x$  upto  $x^3$ .

# Mcse Ptu Question Paper Solved

**Patrick Vollmar**



**Mcse Ptu Question Paper Solved:**

## **Mcse Ptu Question Paper Solved** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Mcse Ptu Question Paper Solved**," published by a highly 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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