

B.Tech. (Sem. - 1st/2nd)
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 .

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Lingjun Ying



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Reviewing **Mcse Ptu Question Paper Solved**: Unlocking the Spellbinding Force of Linguistics

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