

END-SEMESTER EXAMINATION, 2023-24
B. Tech. (SEMESTER : 01)
MTH 141 : CALCULUS, ANALYSIS AND LINEAR ALGEBRA

Time: 03 Hrs.

Max. Marks: 100

- Note:** 1. All questions are compulsory.
 2. Assume missing data suitably, if any.

- CO1: Explain the concept of differential calculus, illustrate the curvature and Maxima, minima and saddle point by using Method of Lagrange.
 CO2: Explain the concept of integral calculus, describe Beta and Gamma function, calculate multiple integration and evaluate area and volume.
 CO3: Describe the concept of sequence and series; discuss the test of convergence to evaluate convergence of series.
 CO4: Discuss the basic of vector calculus; illustrate gradient, curl and divergence.
 CO5: Describe and use the concepts line and surface integral for scalar and vector; explain the Green theorem.
 CO6: Explain the basic concepts matrices and determinate, evaluate system of linear equation by using rank and inverse method, calculate Eigen values and Eigen vectors; Diagonalization of matrices; Cayley - Hamilton Theorem.

CO₅ Marks BTL

SECTION-A

All Questions are Compulsory:

(10×4=40 Marks)

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|-----|--|-----|---|----|
| 1. | Find the value of $\lim_{x \rightarrow 0} \frac{e^{ax} - e^{-ax}}{\log(1+bx)}$. | CO1 | 4 | K1 |
| 2. | Explain and obtain the Maclaurins series of the function $f(x)=e^{3x}$ up to the fourth term. | CO1 | 4 | K2 |
| 3. | Evaluate the value of $\beta\left(\frac{1}{2}, \frac{5}{2}\right)$. | CO2 | 4 | K1 |
| 4. | Explain the Gamma function to illustrate the integral. $\int_0^{\infty} e^{-x} x^2 dx$ | CO2 | 4 | K2 |
| 5. | Explain the sequence of real numbers. Find the sequence if the general term is given as $i a_n = i \frac{(-1)^n}{n}$. | CO3 | 4 | K2 |
| 6. | Explain a bounded sequence of real numbers and develop an example of the sequence that is bounded. | CO3 | 4 | K3 |
| 7. | Explain the divergence and curl. | CO4 | 4 | K2 |
| 8. | Define the curl of the vector. Identify the curl of the vector $\vec{r} = x\hat{i} - y\hat{j} - z\hat{k}$ | CO4 | 4 | K3 |
| 9. | Explain the symmetric matrix with an example. | CO5 | 4 | K2 |
| 10. | Identify whether the matrix $A = \begin{bmatrix} 0 & 1 & 2 \\ -1 & 0 & 4 \\ -2 & -4 & 0 \end{bmatrix}$ is symmetric or skew-symmetric. | CO5 | 4 | K3 |

SECTION-B

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