

Model Question Paper-II with effect from 2022 (CBCS Scheme)

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Second Semester B.E Degree Examination

Mathematics-II for ELECTRICAL & ELECTRONICS ENGINEERING Stream-BMATE201

TIME: 03 Hours

Max. Marks: 100

- Note:
1. Answer any **FIVE** full questions, choosing at least **ONE** question from each **module**.
 2. VTU Formula Hand Book is permitted.
 3. M: Marks, L: Bloom's level, C: Course outcomes.

Module -1				M	L	C
Q.01	a	Find the angle between the surfaces $xy^2z = 3x + z^2$ and $3x^2 - y^2 + 2z = 1$ at the point $(1, -2, 1)$		7	L3	CO1
	b	Find $\text{div } \vec{F}$ and $\text{curl } \vec{F}$ at $(1,2,3)$, if $\vec{F} = 3x^2\hat{i} + 5xy^2\hat{j} + 5xyz^3\hat{k}$		7	L2	CO1
	c	Show that $\vec{A} = (y^2 - z^2 + 3yz - 2x)\hat{i} + (3xz + 2xy)\hat{j} + (3xy - 2xz + 2z)\hat{k}$ is both solenoidal and irrotational		6	L2	CO1
OR						
Q.02	a	Find the work done in moving a particle in the force field $\vec{F} = 3x^2\hat{i} + (2xz - y)\hat{j} + z\hat{k}$ along the straight line from $(0,0,0)$ to $(2,1,3)$		7	L2	CO1
	b	Using Green's theorem evaluate $\oint (xy + y^2)dx + x^2dy$ over the region bounded by the curves $y = x$ and $y = x^2$		7	L3	CO1
	c	Using modern mathematical tools, write the code to find the gradient of $\phi = x^2y + 2xz - 4$		6	L3	CO5
Module-2						
Q. 03	a	Define a subspace. Show that the intersection of two subspaces of a vector space V is also a subspace of V .		7	L2	CO2
	b	Define a basis for a vector space. Determine whether or not the vectors: $(1, 1, 2)$, $(1, 2, 5)$, $(5, 3, 4)$ form a basis of R^3 .		7	L2	CO2
	c	Prove that $T: R^3 \rightarrow R^3$ be defined by $T(a, b, c) = (3a, a - b, 2a + b + c)$ is a linear transformation.		6	L2	CO2
OR						
Q.04	a	Define linearly independent set of vectors and linearly dependent set of vectors. Are the vectors $V_1 = (2, 5, 3)$, $V_2 = (1, 1, 1)$, and $V_3 = (4, -2, 0)$ linearly independent? Justify your answer.		7	L2	CO2

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Rosina Ehmman



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