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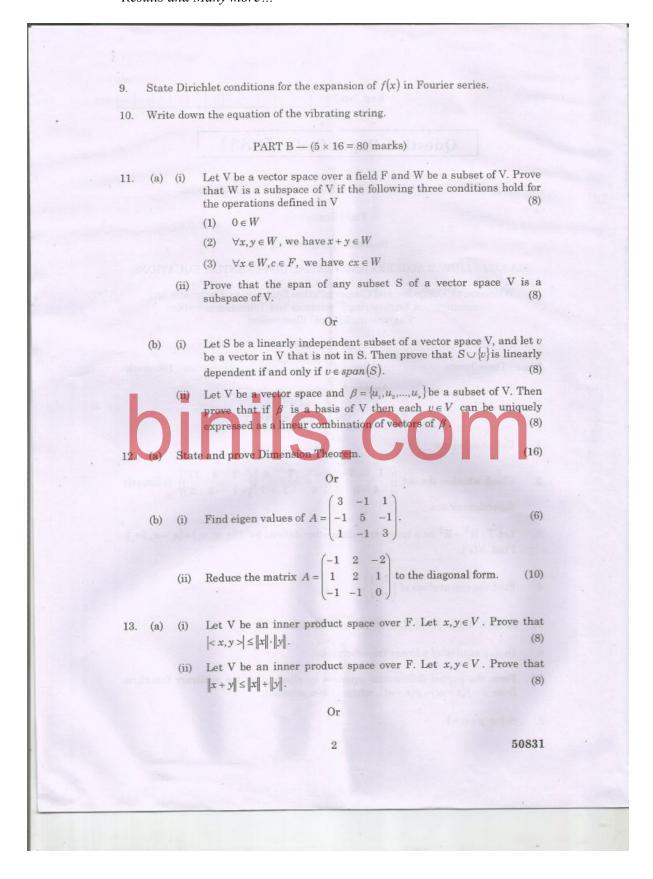
	Reg. No. :	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Question Paper Code: 50831	
	B.E./B.Tech DEGREE EXAMINATIONS, APRIL/MAY 2023.	
	Third Semester	
	Biomedical Engineering	
MA 8352	2 – LINEAR ALGEBRA AND PARTIAL DIFFERENTIAL EQUA	ATIONS
4	amon to: Computer and Communication Engineering/Electronics Communication Engineering/Electronics and Telecommunication Engineering/Medical Electronics)	
	(Regulations 2017)	
Time : Thre	ree hours Maximum :	100 marks
<ol> <li>Check depen</li> <li>Let T Find t</li> <li>Find t</li> <li>Is {(1, 6. Define from from from from from from from from</li></ol>	PART A $(10 \times 2 = 20 \text{ merks})$ he subspace.  k whether the set $\left\{ \begin{pmatrix} 1 & -3 & 2 \\ -4 & 0 & 5 \end{pmatrix}, \begin{pmatrix} -3 & 7 & 4 \\ 6 & -2 & -7 \end{pmatrix}, \begin{pmatrix} -2 & 3 & 11 \\ -1 & -3 & 2 \end{pmatrix} \right\}$ ndent or not.  T: $\mathbb{R}^3 \to \mathbb{R}^2$ be a linear transformation defined by $T(a_1, a_2, a_3) = (a_1, a_2, a_3) = (a_2, a_3)$ the eigenvalues of $\begin{pmatrix} 1 & 1 \\ 4 & 1 \end{pmatrix}$ .  If $(1, 0), (1, -1, 1), (-1, 1, 2)$ an orthonormal set?  The adjoint of a linear transformation.  The partial differential equation by eliminating the arbitrary $(1, 1, 1, 1)$ is $(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1$	$a_1 - a_2, 2a_3)$

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