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Co	de No: 126ZB JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDEI		
A G	B. Tech III Year II Semester Examinations, April - 2018 ELEMENTS OF EARTHQUAKE ENGINEERING (Civil Engineering)	KABAD A. Marks: 75	4
	te: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Pactonsists of 5 Units. Answer any one full question from each unit. Each question marks and may have a, b, c as sub questions. This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Pactonsists of 5 Units. Answer any one full question from each unit. Each questions. Part A is compulsory which carries 25 marks. Answer all questions in Pactonsists of 5 Units. Answer any one full question from each unit. Each questions. Part A is compulsory which carries 25 marks. Answer all questions in Pactonsists of 5 Units. Answer any one full question from each unit. Each questions. Part A is compulsory which carries 25 marks. Answer all questions in Pactonsists of 5 Units. Answer any one full question from each unit. Each questions. Part A is compulsory which carries 25 marks. Answer all questions in Pactonsists of 5 Units. Answer any one full question from each unit. Each questions. Part A is compulsory which carries 25 marks. Answer all questions in Pactonsists of 5 Units. Answer any one full question from each unit. Each questions. Part A is compulsory which carries 25 marks. Answer all questions in Pactonsists of 5 Units. Ans	estion carries	
		(25 Marks)	
1.a) b) c) d) e) f) g) h)	Draw the sketch of interior of earth showing the parts. Describe zones of Convergence. List the basic factors contributing to the proper seismic behavior of building List the factors involved in an adequate earthquake resistant design for a str. Why cold worked steel is not used in earthquake resistant building structure List any three damages to RCC buildings. List the categories of masonry buildings as per IS4326:1993. With the help of sketch show how the box action is achieved in a mason	[2] [3] [2] ucture.[3] vs. [2] [3]	<u> </u>
\bigwedge \bigcap_{i} j)	Describe the Non-structural elements. List out the architectural components of a building.	[3] [2]\ [3]	A
	PART - B		
		(50 Marks)	
2.a) b) 3.a) b)	Define earthquake and write the causes of earthquake. Discuss about analysis of earthquake waves. OR Discuss about elastic vibration of simple structures. Explain about non steady state forced vibrations.	[5+5]	Δ
4.a) b)	Discuss about seismic design coefficient. Write about Dynamic analysis procedure.	[5+5]	
△ . 6.	Explain about Stiffness and Strength in conceptual design. What are the principles of earthquake resistant design of RCC buildings?		A
7.	OR Describe with the help of neat sketches, restoration and strengthening of R and columns.		
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