QP Co	ode: RO20MTECH241 Reg. No	AR 19
GIET UNIVERSITY, GUNUPUR – 765022 M. Tech (Second Semester Examinations) – October' 2021 MPECT2042 – ADVANCED CONSTUCTION MATERIALS (Construction Technology and Management)		
Time: 2 hrs Maximum: 50 Marks (The figures in the right hand margin indicate marks)		
PART – A		
Q.1. Answer <i>ALL</i> questions $(2 \times 10 = 20)$		
 a. List the factors that affect the choice of selection of building materials. 		
	Define the terms : Specific weight and Specific gravity	
	Differentiate between elasticity and plasticity.	
	Define Quick lime. What do you mean by hydration of cement?	
	Give classification of mortars on the basis of binding material.	
g. How phosphorous effect the property of steel?		
h. Write short notes on Thermo-mechanically treated bars.		
i. State the advantages of fiber reinforced concrete.		
	What do you understand by Geosynthetics?	
PART - B (6 x 5 = 30 Marks)		larks)
Answer ANY FIVE questions		Marks
2.	Explain about fire resistance and chemical resistance of materials.	(6)
3.	Explain briefly about the mechanical properties of building materials.	(6)
4.	Explain briefly about the varieties of lime and state the uses of lime in the field of construction industry	(6)
5.	Write short notes on:	(6)
	i. effect of mixing water from different sources.ii. Alkali-Aggregate Reaction	
6.	Describe about the constituents of plastics and discuss about various moulding methods of plastics.	(6)
7.	Give an account of Alloy steel and explain its properties.	(6)
8.	Explain briefly about composite materials. Also state the uses and applications of composite materials.	(6)
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