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34)

T. E- VI Sem -

Chem Advance materiay TE/VI/CBGS/CHEM/TSAM) QP Code:717300

(3 Hours)

[ Total Marks : 80

N.B.:		· (1) Overther is the		
N.	. <b>B.</b> :	<ol> <li>Question no. 1 is compulsory</li> <li>Answer Any Three Questions from the Remaining five Questions.</li> <li>Illustrate the answer with proper and neat diagram wherever necessary.</li> </ol>	30	
1.	(c)	Write applications of carbon Nanotubes.  Explain various $A_m X_n$ structures of Ceramic Materials  Explain Biomedical application of PTFE.  Explain classification of Titanium alloys.	5 5 5	
2.	(a)	Explain different causes of failure in Stainless Steel What is High Temperature Polymer? Explain several ways by which heat stability of Polymer can be increased.	5 10 10	
3.	(a)	Explain Sturry Infiltration Process for tabrication of Ceramic Matrix Composites along with its advantage and disadvantages.  What is closed molding process? Explain Pultrusion and Pulforming Process for processing of fiber reinforced plastic composites.	10	
4.	(a)	Explain preparation of INSITU Particle Metal matrix composite along with its	10	

	(b)	Explain Slip Casting Process for processing of ceramics along with its advantage and disadvantages	10
5.		What are composites? Explain classification of Composites Material.	

	(b) Explain Chemical Vapor Deposition of Composites Material	_
	(a) Explain Chemical Vapor Deposition Method for synthesis of Carbon Nanotubes.	10
_	Minesis of Carbon Nanotibes	
0.	(a) Explain various types of Thermal Spraying Methods was a Survey of Thermal	10
	(b) What is a special spraying Methods was a	

(b) What is Stainless Steel? Explain various types of stainless steel with their

10
10