S.E-IV Sem - Chem.

Material Science Engineering | CBGS | chom/MSE

Q.P. Code: 5458

		(3 Hours)	Total Marks	: 80
N.		 Question No.1 is compulsory Attempt any three questions from remaining five questions Figures to right indicates full marks Illustrate answers with neat sketches wherever required Assume suitable data wherever required and state it clearly 		
1.	(a (b (c	Point defects		20
2.	(i)	and prozecteditelly		20
3.	(ii) (a)	Explain in detail about Fatigue fracture with respect to following (i) Definition (ii) Mechanism of fatigue fracture (iii) Factors affecting fatigue strength of material	points:	10
	(þ)	(iv) Methods to increase fatigue life of material Explain in detail about plastic deformation (i) by slip (ii) by twinning		10
4.	(a)	Which types of plastic are used for packaging of (i) soft drinks (ii) food products like curd (iii) vanspati oil (iv) pesticides (v) detergents		10
	(b)	What are polymer blends? Give their types. Mention any three exact explain their applications.	imples and	10
5.	Expl that	ain in detail about different types of corrosion and mechanism of occurs in metals.	corrosion	20
6.	(a) (b)	Explain in detail about factors considered for selection of material chemical plants. Explain in detail about materials used to store and transport chlori HCI acid.		10 10