•	Entry No	
B AML 851 FRACTURE MECHANI Major Test	ICS (2008-2009)	

	Major Test
1.	Fill up the blanks with appropriate words/sentences (30)
(i)	On application of a tensile overloading fatigue cycle over a constant amplitude loading, following immediate changes in crack growth kinetics takes place (a)(b)
	(c)
(ii)	As parameter Q becomes more negative, the J _C fracture toughness has a tendency to because
(iii)	An increasing n value (in Ramberg-Osgood relation) tends toQ parameter which has acontribution on J-toughness.
(iv)	The condition/s for slow stable cracking in a structure in terms of J-parameter is/are given as follows
(v)	The J parameter can characterize crack growth in a test specimen if these conditions are met
(vi)	The stretch zone formation occurs at the crack tip because of
(vii)	The CTOD design curve is applicable for(crack geometry) and uses a S.F. of on crack size.
(viii)	δ_u toughness differs from δ_m in the sense that
(ix)	A dimensionless calibration curve is obtained by plottingVsto determine crack growth using compliance technique.
(x)	The requirements of a good fatigue crack in a FT test specimen are