

Des&Metall. Of welded JTS. (MEL778)	M.Tech, II semester, Major
Max.Marks 100	Date: 03-05-07 Time: 03.30 am - 05.30 pm

Neat sketches and drawings will carry extra weight

1	Explain wet and dry techniques of magnetic particle testing of weldment	10
2	Discuss the heat flow and micro structural changes in steel weld	10
3	Discuss the role of functionally graded interlayer in joining of ceramics	10
4	How do you use a) Schaeffler diagram and b) Delong diagram for the estimation of ferrite.	10
5	Write the difficulties involved with friction joining of ceramics and discuss the possible ways to process friction joints of ceramics	15
6	What is sensitization in stainless steel weldment? Suggest suitable procedure to surpass/minimize this problem	15
7	List the weld defects. Discuss the causes and remedies of weld defects	15
8	Discuss on service weldability testing	15