

Department of Industrial & Production Engineering

IPE-205: Manufacturing Processes-I
Class Test-IV: Metal Joining Processes

Time: 40 minutes

Marks: 20

Name: _____ **Student No.:** _____ **Date:** _____

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| Q.1. | Sketch the various welds used in making a joint. Differentiate among autogenous, homogenous and heterogeneous welding processes. | [07] |
| Q.2. | What is the main difference between the TIG and MIG welding processes? Name the inert gases used in TIG welding process and compare them. | [07] |
| Q.3. | Discuss the factors that influence weld quality. Why are residual stresses important in welded components? Describe the methods used for relieving or reducing residual stresses in welds. | [06] |