



VIT<sup>®</sup>

Vellore Institute of Technology  
(Deemed to be University under section 3 of UGC Act, 1956)

Continuous Assessment Test – II FALL 2019-20

Programme Name & Branch: B.Tech. (BME)

Course Code & Name: MEE1007 Manufacturing Processes

Class Number: VL2019201005325

Slot: G2

Exam Duration: 90 minutes

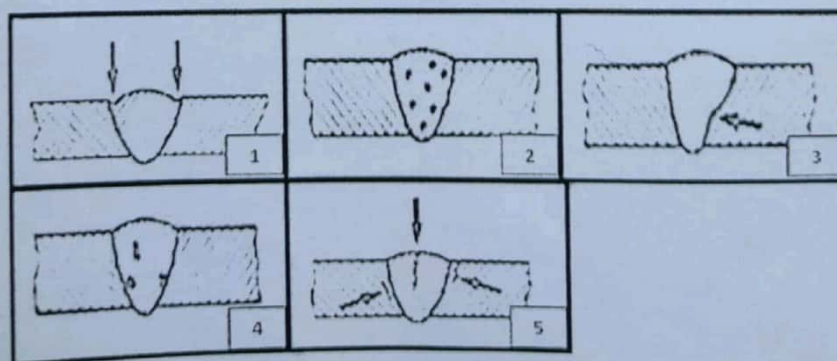
Maximum Marks: 50

Answer ALL the questions

S.No.

Mark

1. Two Aluminium plates have to be welded in butt joint. Fusion welding is banned for this application. The welding process uses a third blunt rotating tool which is plunged at the junction of the two plates and feeding along the joint. Identify this type of welding process; give detailed explanation on this welding process, with appropriate sketches. 10
2. With a neat sketch explain the suitable welding process which has the capability of making mechanical interlock between the two surfaces. 10
3. Hammerless forging are possible through high energy rate forming" comment on this statement with proper justification. List the various HERF methods and explain any one in detail. 10
4. Write the name of the weld defects shown in Fig. 2 and remedies for the same. 10



5.

- Discuss about the microstructural changes and its effects on mechanical properties during HOT rolling with a neat sketch. 10

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