

GUJARAT TECHNOLOGICAL UNIVERSITY**BVOC- SEMESTER-II EXAMINATION – WINTER 2022****Subject Code:21120301****Date:21-02-2023****Subject Name:Manufacturing Processes****Time:02:30 PM TO 04:30 PM****Total Marks:50****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

	Marks
Q.1 (a) Explain classification of manufacturing processes with diagram.	05
(b) Explain the selection process of manufacturing process.	05
Q.2 (a) What is Pattern? What are Different Types of Pattern?	05
(b) List the different types of allowances in casting process. Explain any one with neat sketch.	05
OR	
(b) Write down the different types of furnaces used for casting. Explain the construction and operation of Cupola furnace with a neat sketch?	05
Q.3 (a) Give the advantages and limitations of gas welding.	05
(b) List out the defects in welding process.	05
OR	
Q.3 (a) Explain Brazing and its types.	05
(b) Explain Soldering and its types.	05
Q.4 (a) What is hot working and what are the advantages and disadvantage of hot working?	05
(b) Comparison between hot working and cold working.	05
OR	
Q.4 (a) Explain the defects in rolled parts	05
(b) Advantages and Limitations of tube extrusion.	05
Q.5 (a) Explain the cutting operation in sheet metal operations with a neat sketch.	05
(b) Explain the forming operations in sheet metal operations with a neat sketch.	05
OR	
Q.5 (a) Explain bending operation and types of bending operations.	05
(b) What is metal spinning process?	05
