

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BVOC- SEMESTER– II EXAMINATION – SUMMER 2023

Subject Code: 21120301

Date:18-07-2023

Subject Name: Manufacturing Process

Time:10:30 AM TO 12:30 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 the selection process of manufacturing process.	05
(b) Explain bending operations and types of bending operations.	05
Q.2 (a) What is Pattern? What are Different Types of Pattern?	05
(b) Differentiate arc welding and gas welding.	05
OR	
(b) Write down Advantages and Limitations of tube extrusion.	05
Q.3 (a) Write down the different types of furnaces used for casting. Explain the construction and operation of Cupola furnace with a neat sketch?	05
(b) Describe the centrifugal casting process with a neat sketch?	05
OR	
Q.3 (a) What are the different types of moldings sand?	05
(b) State the properties of molding sand.	05
Q.4 (a) Give the advantages of MIG welding	05
(b) Explain the Shielded Metal Arc welding with a neat sketch.	05
OR	
Q.4 (a) List out the defects in the welding process.	05
(b) Write down the advantages and limitations of gas welding.	05
Q.5 (a) What is hot working and what are the advantages and disadvantages of hot working?	05
(b) Write down Advantages and Limitations of tube extrusion.	05
OR	
Q.5 (a) Explain rolling of metals with a neat sketch.	05
(b) Comparison between hot working and cold working	05
