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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (Old) EXAMINATION - WINTER 2019

Subject Code: 151901 Date: 09/12/2019

Subject Name: Manufacturing Processes - II

Time: 10:30 AM TO 01:00 PM Total Marks: 70

Instructions:

(b)

Q.5

Q.5

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Compare direct and indirect extrusion.

appropriate super finishing process.

for finishing operation.

(a) List the various manufacturing processes. Discuss various factors involved for 07 **Q.1** selection of manufacturing process for producing a given component. Define the term pattern. List out the materials commonly used for pattern. State **07** advantages of wood as pattern material. **Q.2** (a) What is gating system? What are its functions? State types of gate with its 07 State the principle of centrifugal casting and explain its working with neat sketch. **07** OR (b) State and explain various types of casting defects, causes of defects and its 07 remedies. **Q.3** Explain various flames produced in an Oxy-acetylene gas welding. 07 (b) Discuss with neat sketch MIG welding process. State its advantages, limitations **07** and applications. OR Distinguish arc welding process and resistance welding process briefly. Q.3 (a) 07 Explain laser beam welding. State its applications. 07 What is elastic and plastic deformation? Explain in details. **07 Q.4** (b) List the factors influencing rolling process. Explain the effect of roller diameter **07** and metal friction on rolling process. **Q.4** (a) Discuss strain rate effect and metallurgy structure in metal working. 07

(b) Classify the types of plastics along with the general properties of the plastics.

(b) Explain with sketch and application: Cylindrical and Center less grinding process

OR
(a) Enlist types of super finishing processes. Discuss the selection criteria for

Explain compression moulding and blow moulding process.

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