

H.T.No.

--	--	--	--	--	--	--	--	--	--

Code No: ME1516

GEC-R14

II B. Tech II Semester Supplementary Examinations, January 2017

MANUFACTURING PROCESSES

(Mechanical Engineering)

Time: 3 Hours

Max. Marks: 60

Note: All Questions from **PART-A** are to be answered at one place.

Answer any **FOUR** questions from **PART-B**. All Questions carry equal Marks.

PART-A

6 × 2 = 12M

1. What is split pattern?
2. Mention any two merits and demerits of investment casting.
3. Write the various types of welding electrodes.
4. Mention the applications of friction welding.
5. Define Blanking.
6. What is impact extrusion?

PART-B

4 × 12 = 48M

1. a) Explain various principles of gating. (6M)
b) What are the pattern allowances? Explain in detail with neat sketch. (6M)
2. Explain hot chamber die casting process with a neat sketch. List out its advantages, limitations and applications. (12M)
3. a) What are the various types flames used in oxy-acetylene welding. (6M)
b) Explain the process of resistance spot welding with one complete welding cycle. (6M)
4. a) Explain TIG and MIG system of welding. (8M)
b) Distinguish between soldering and brazing (4M)
5. a) Define hot working and cold working. Give a detailed comparison on both. (6M)
b) Describe and specify the merits and limitations of different kinds of rolling mills. (6M)
6. a) State different types of extrusion and explain in detail. (6M)
b) Explain drop forging with sketch. (6M)
