



ACE
Engineering College
(with a Difference in Excellence)

An AUTONOMOUS Institution



Question Paper Code:

ME304PC

ACE-R20

Semester End Examination
II B. Tech- I Semester- MARCH-2022
PRODUCTION TECHNOLOGY
(Mechanical Engineering)

Time: 3 Hours

Max. Marks: 70

H. T. No

Answer any 5 Questions out of 8 Questions from the following

Q.No	Question	Marks
1. a)	What are the materials that are generally used for making patterns? Explain the reasons for their choice.	7
b)	Mention the common allowances provided on patterns? Why and how they are provided? Give suitable examples.	7
2. a)	With the help of a neat sketch of welding torch explain the oxy acetylene process of welding.	7
b)	Explain the process of thermit welding. Where would you recommend it?	7
3. a)	Write difference between friction welding and induction welding.	5
b)	Explain various welding defects, causes and remedies?	9
4. a)	Compare the properties of cold worked and hot worked parts with examples.	7
b)	Describe briefly the deep drawing operation with a neat sketch? And discuss its advantages and applications?	7
5. a)	State the principle of forging operation. Explain the difference between smith forging and drop forging?	9
b)	Derive the forces required in extrusion process.	5
6. a)	State and explain various defects occur in the casting.	7
b)	Describe the solidification of pure metal with a neat sketch	7
7. a)	Explain destructive and non- destructive testing of welds.	7
b)	Write short notes on heat effected zones in welding?	7
8. a)	Explain the functioning of two-high rolling mill and multi-pass-rolling mill ?	7
b)	Discuss briefly the factors affecting the rolling process?	7