

Name:	Roll No:	Group Number
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Manufacturing Practices (MEL120)	B.Tech. MAJOR
Max.Marks :100	Date: 04-05-07 Time: 10.30 am-12.30 pm
1. Write your name , entry number and group number on all the sheets of question paper 2. Question paper consists of 5 pages and 11 questions. Check before answering 3. Be brief and specific in your answers. Draw suitable, neat sketches wherever required.	

1. Write the difference between engineering stress, strain & true stress, strain (8)

2. Specify the importance of composite materials. List 3 types of composites (8)

3. How the shrinkage is compensated in sand casting process (5)

Name:	Roll No:	Group Number
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4. Explain hot chamber casting processes with suitable sketches. Give advantages and limitations (10)

5. Discuss strain hardening effects in metal forming (8)

Name:	Roll No:	Group Number
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6. Explain the wire drawing process with suitable sketches (5)

7. With neat sketches explain the resistance spot and seam welding processes (14)

Name:	Roll No:	Group Number
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8. Write short notes on following processes a) Ultrasonic welding b) Laser beam welding (12)

9. List the requirements of a cutting tool material. Explain properties of the following cutting tool materials : i) HSS ii) Diamond (10)

Name:	Roll No:	Group Number
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10. Explain the functions of a dielectric medium in EDM and electrolyte in ECM process. State whether they are consumed during the process (8)

11. How do you manufacture bottles used for mineral water in mass production. Explain with neat sketches (12)