

**MARIA COLLEGE OF ENGINEERING & TECHNOLOGY
ATTOOR**

**TWO MARKS QUESTIONS
UNIT.1
MANUFACTURING TECHNOLOGY 1**

1. What is foundry?
 2. What are the stages of casting process?
 3. What are the different types of pattern
 4. What are the properties of moulding sand?
 5. What are the important methods of sand testing?
 6. What are the steps involved in refractoriness test?
 7. What are the pattern materials used?
 8. What are the various types of pattern allowance?
 9. What are the basic steps in core making process?
 10. What is mean by core?
 11. Name the three types of core binders?
 12. What are the types of cores?
 13. What are the tools used in moulding process?
 14. What are the types of moulding processes?
 15. How we are classifying the moulding machines?
 16. Name the different zones in Cupola furnace?
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17. What are the advantages of special casting process over sand casting processes?
 18. What are the three types of centrifugal casting?
 19. What are the advantages of ceramic mould casting?
 20. What are the defects in casting processes?

UNIT.2

1. Define welding
2. What are the types of welding processes?
3. Name the equipments used in gas welding?
4. Name the equipment used in arc welding?
5. What are the advantages of submerged arc welding?
6. Define plasma arc welding.
7. What are the disadvantages of plasma arc welding?
8. What are the procedures followed in Thermit welding?
9. What are the equipments used in electron beam welding?
10. What are the disadvantages of electron beam welding?
11. What is meant by friction welding?
12. Define Diffusion bonding
13. What are the defects in welds?
14. Define Brazing

15. What are the characteristics features of filler metals and fluxes?
16. What are the methods involved in brazing?
17. Define soldering?
18. What are the advantages of soldering?
19. What is adhesive bonding?
20. What are the advantages of adhesive bonding technology?

UNIT.3

1. Define cold working of metals.
2. Define re crystallization temperature.
3. What are the advantages of hot working over cold working?
4. What is meant by semi or warm hot working?
5. Define press forging?
6. What are the type of hot extrusion process?
7. Define hot spinning.
8. What is wire drawing?
9. What are the defects in forging operation?
10. Name four different press working operations.
11. Describe the methods used for cleaning the forging.
12. Define forgeability.
13. Define powder forging.
14. Define Gatorizing.
15. What are the defects in rolling operations?
16. What is meant by break down passes in rolling?
17. What is the formula used for power per roll?
18. Explain orbital forging.
19. Explain isothermal forging.
20. Define foil, bar wire.

UNIT.4

1. Give any ten tools used in sheet metal hand operations.
2. Write down any four sheet metal characteristics.
3. What is meant by seaming.
4. What is stretching?
5. Define the term spring back?
6. List the application of stretch forming operations.
7. What are the formability test methods?
8. Mention the various types of simulative tests carried out for various cup forming process?
9. LDR refers to.....
10. What are the types of special forming process?
11. What are advantages of hydro forming process?

12. What is meant by spinning process?
13. Mention the advantages of power spinning process?
14. Give the various forms of explosives.
15. How magnetic pulse is created?
16. What is super plastic of metals?
17. What is peen forming process?
18. Name the various processes can be performed by explosive processes.
19. Mention advantages of super plastic forming process.
20. What are the application of super plastic forming process?

Unit.5

1. How the organic materials are classified?
2. Give some natural organic materials?
3. Give some examples of additives.
4. Give some examples for thermo plastics?
5. What are the processes of thermo plastic?
6. What are two types of injection moulding?
7. Rubber is anpolymer
8. Give some additives added to the manufacture of rubber?
9. What are the types of compression moulding?
10. What are the two types of laminates?
11. What are the foamed plastics?
12. What are the fusion and solvent methods?
13. What are the processes involved in laminates?
14. What is the frequency range in ultrasonic welding?
15. Define co polymerization.
16. What are foamed plastics?
17. In injection moulding the moulding pressure is
18. Give some examples of fillers.
19. The film and sheet making process is known as

BIG QUESTIONS

Unit. 1

1. What are the pattern allowances? Explain briefly each.
2. State the different types of mould. Write a short notes on “green sand mould”
3. With a neat sketch of a cupola, explain its operation.
4. Explain briefly the various moulding methods used in foundries?
5. Explain the various non-destructive inspection methods of cast products .

unit.2

1. Explain the method of laser beam welding and give their application.
2. Illustrate the thermit welding process with neat sketch and also state its applications.
3. What are the welding defects and give their remedies?
4. Describe brazing process.
5. Explain various type of resistance welding with neat sketch?

unit. 3

1. Explain the hot working and cold working with suitable example.
2. Discuss the various forging operation.
3. Define rolling and discuss according to the classification.
4. What are the various press working operations?
5. Explain the working of some drawing equipments.

Unit. 4

1. Describe various type of bending operations with its neat sketches.
2. What is stretch forming? How it is carried out in sheet metal?
3. Explain hydroforming process with its neat sketches. State their application.
4. Explain power spinning process with a neat sketch.give their application.
5. Explain peen forming process is carried out on sheet metal?

Unit. 5

1. What are characteristic of the forming and shaping processes?
2. Explain the extrusion process.
3. Explain the working principle and application of
a)Compression moulding b)Transfer moulding
4. What are the fusion and solvent methods?
5. Explain induction and ultrasonic methods.

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FIRST TWO MARKS TEST

DESIGN OF MACHINE ELEMENTS

1. What are conical springs?
2. What are active coils?
3. What are the end conditions of the spring?
4. What is fly wheel?
5. What is flywheel effect?
6. Define the term fluctuation of energy.
7. State the type of stresses induced in a rim flywheel?
8. What are the stresses induced in flywheels arms?

9. How does the function of flywheel differ from that of governor?
10. What is spring index?
11. What is bearing?
12. State the component of rolling contact bearing.
13. What are types of thrust ball bearing?
14. List any four advantages to rolling contact bearings over sliding contact bearing.
15. State the disadvantages of thrust ball bearing.
16. Explain the term dynamic load carrying capacities of rolling contact bearing.
17. What is the advantage of Teflon which is used for bearings?
18. What is a journal bearing? List any two applications.
19. What is known as self acting bearing?
20. What are the stresses set up in an IC engine connecting rod?