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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Ind. Engg. & Mgt. (Spl. in TQM)) PT (Sem.-2)

MANUFACTURING PROCESSES & MATERIALS

Subject Code : IEM-202

M.Code : 61007

Time : 3 Hrs.

Max. Marks : 40

INSTRUCTIONS TO CANDIDATES :

1. Attempt All EIGHT questions from SECTION-A carrying TWO Marks each.
2. Attempt any SIX out of EIGHT questions from SECTION-B carrying FOUR marks each.

SECTION-A**1. Write briefly :**

- a. How can you classify different manufacturing processes?
- b. Differentiate between the properties and characteristic features and applications of thermoplastics and thermosetting materials.
- c. Explain the elements of gating system giving a neat sketch.
- d. Differentiate between piercing and blanking operations.
- e. Differentiate between drilling and boring giving neat sketches.
- f. What are various types of arcs used in gas welding process? Give their applications.
- g. What do you understand by tempering of steels? What is the need for tempering?
- h. Explain the procedure for applying tin coating on materials.

SECTION-B

2. Discuss the characteristics and applications of copper and copper alloys in manufacturing commercial products.
3. Explain the sequence of manufacturing processes involved in manufacturing of tyres.

4. Discuss the centrifugal casting process giving a neat sketch and also describe its advantages, disadvantages and applications.
5. Describe the working of roll forging process giving a neat sketch and also discuss the advantages, limitations and applications of roll forging process.
6. Discuss the elements of a shaper giving a neat sketch.
7. Differentiate between brazing and soldering. Explain the soldering process giving a neat sketch.
8. Explain Iron-Carbon diagram showing various zones and explain their significance.
9. Explain shot blasting method for applying coatings on materials giving a neat sketch.

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