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Printed Pages : 4

NME-201/NME101

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 199131

Roll No.

B. Tech.

(SEM. II) THEORY EXAMINATION, 2014-15

BASIC MANUFACTURING PROCESS

Time : 2 Hours] [Total Marks : 50

Note : Attempt questions from each section as per instructions.

SECTION - A

Attempt all parts of this question. Each part carries 1 mark : 1×10=10

1 (a) Define creep fracture.

(b) Give some example of ductile materials.

(c) In which form carbon is present in grey cast iron.

(d) Write the name of any two alloys of copper.

(e) Give two examples of forging products.

(f) Which materials are used to make non consumable electrodes?

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(g) Why draft allowance is provided with pattern?

(h) Why clapper box is use in shaper?

(i) Which layout is suitable for batch production?

(j) What do you mean by composite material?

SECTION - B

Attempt any three parts of this question. **5×3=15**
Each question carries 5 marks :

2 (a) What do mean by heat treatments? Explain the objective of heat treatments and its process.

(b) What are the desirable properties of moulding sand? Explain each in brief.

(c) What is the principle of gas welding? List the various types of flames generated in oxy-acetylene gas welding and also indicate the applications of each.

(d) Explain the working principle of rolling. List the different types of rolling mills configurations. Explain any one.

(e) Explain plastics with their properties. Differentiate between thermosetting plastic and thermo plastic.

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SECTION - C

Attempt all questions of this section. **5x5=25**

3 What is wrought iron? Explain its properties and applications. How stainless steel does become stainless?

OR

3 What are the major uses of aluminium? List the various types of aluminium alloys. Explain any one.

4 Explain with neat sketches, the basic working principle of extrusion. Describes its applications in industry. Name the four extruded products.

OR

4 (i) Differentiate between hot and cold working of metals.

(ii) Explain the process of wire drawing with neat sketch.

5 With the help of schematic sketch, describe the basic working principle and important parts of drilling machine. List the various allied processes which are performed by use of it.

OR

5 (i) Explain the difference between soldering and brazing?

(ii) Define straight polarity and reverse polarity.

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6 Explain different types of plant layout with their advantages and disadvantages and explain the factors which affect the plant layout.

OR

6 (i) What is the difference between production and productivity?

(ii) Explain Powder metallurgy with applications.

7 Write short notes on any two of the following:

(a) Press works and its operations

(b) Ceramics

(c) Cupola furnace

(d) Electroplating and Galvanizing.

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