



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

PAPER ID : 199244

Roll No.

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B. Tech.

(SEM. II) THEORY EXAMINATION, 2014-15
MANUFACTURING SCIENCE

Time : 2 Hours]

[Total Marks : 50

Note : The question paper is divided into three sections.
Attempt each section.

SECTION-A

1 Attempt the following short answer type questions : **5×2=10**

- (a) Define the term "Manufacturing"?
- (b) Distinguish between hardness and stiffness?
- (c) Write down any two advantages of casting process?
- (d) Define the term "Welding"?
- (e) List various objective of heat treatment?

SECTION-B

- 2 Attempt any three parts of the following : $5 \times 3 = 15$
- (a) Gives two broad classes of manufacturing processes. Explain differences in these.
 - (b) Define Extrusion process. Compare extrusion and rolling processes.
 - (c) Define drilling operation. What factors affect the cutting speed for drilling?
 - (d) Distinguish between annealing and normalizing. What is the purpose of these processes?
 - (e) Enumerate the advantage and disadvantages of plastic materials over metallic materials.

SECTION-C

- 3 Attempt any five questions: $5 \times 5 = 25$
- (a) Define the following :
 - (i) Elasticity
 - (ii) Resilience
 - (iii) Formability
 - (iv) Toughness
 - (v) Creep
 - (b) Classify the various type of Engineering material used in manufacturing process?

- (c) Describe the various type of allowances consider during making pattern?
 - (d) Describe the four main part of lathe. List some of the operations that can be done on the lathe?
 - (e) Enumerate factors which must be considered during the selection of plant location? Also discuss plant layouts preferred as per need of work?
 - (f) Write short notes on Galvanizing and electroplating?
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