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Exam.Code:0939
Sub. Code: 7044

1128
B.E. (Mechanical Engineering)
Third Semester
MEC-305: Manufacturing Processes

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Attempt the followings :

- a) Define Poisson's ratio.
- b) What do you mean by Resilience?
- c) What is drifting?
- d) What is Straight polarity in EAW?
- e) Name the Expendable mould casting processes. (5x2)

UNIT - I

- II. a) What is effect of nickel and chromium on property of steel?
b) What is foiling mill? Explain drawback of rolling mills. (2x5)
- III. a) Explain working principal of spinning and its application.
b) What is the composition of cast iron? Also write application of cast iron? (2x5)
- IV. a) Differentiate in between α , β and γ - phases of brass.
b) Explain punching. (2x5)

UNIT - II

- V. a) Explain elements of gating system with sketch.
b) Explain property of moulding sands. (2x5)
- VI. a) What is the function of Riser and explain types of riser with sketch.
b) Explain working principle of thermit welding. How it is different from casting? (2x5)
- VII. a) How welding electrodes are selected in EAW? Explain IS standards for electrode.
b) Define function of Flux and types of flux used in brazing. (2x5)

x-x-x