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Write short notes on:

12.

Fatigue and Creep

Quenching & tempering and case-hardening.

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Molding sands and its desirable properties.

Paper ID :140121 Printed Pages: 3 (Following Paper ID and Roll No. to be filled in your Roll No. Answer Book) 1319 EME-101

B. Tech.

(SEM. I) THEORY EXAMINATION, 2015-16

[Time:3 hours]

MANUFACTURING PROCESS

[Total Marks:100]

Attempt All parts. All parts carry equal marks. Write

Section-A

ਭ (a) What is the importance of flux used in welding answer of each part in short. What do you mean by spring back in sheet metal operation? (10×2=20)

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(c) Define the sintering operation used in powder metallurgy?

operation?

(d) Define elasticity and ductility of a material?

(c) Write applications of grey cast iron.

Э What do you mean by Galvanizing process?

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non-consumable electrode?

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What is the function of Riser in casting?

What do you mean by Production and productivity?

Section-B

Explain the working principle of Planer type milling machine with a neat sketch. Explain Electric Arc Welding with suitable sketch. What

Discuss different types of pattern used in Foundry Shop do you understand by the polarity in Welding?

with neat sketch.

detail: What is the importance of heat treatment and explain in

(i) Normalizing (ii) Tempering

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What is the difference between drilling and boring?

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a)

Explain with neat sketch the gating system used in

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What is the difference between the consumable and

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<u>a</u> Differentiate forward and backward extrusion.

What is creep? Explain the various stages.

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Differentiate between hot and cold working.

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Write short note on:

9.

Types of Production

Brazing and its uses

Composite materials

Section-C

Answer any two questions from this section: $(2 \times 15 = 30)$

What are the objectives of plant layout? Explain different types of layout with their advantages and disadvantages

a) Discuss in details the properties and applications of Plastics and Composite-materials

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Discuss the Powder metallurgy process & its applications.

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