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- 12. Write short notes on:
- Fatigue and Creep
- Quenching & tempering and case-hardening.

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Molding sands and its desirable properties.

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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]

Section-A

answer of each part in short. Attempt All parts. All parts carry equal marks. Write $(10 \times 2 = 20)$

(a) What is the importance of flux used in welding operation?

<u></u> What do you mean by spring back in sheet metal operation?

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- <u>O</u> Define the sintering operation used in powder metallurgy?
- (d) Define elasticity and ductility of a material?
- © Write applications of grey cast iron.
- $\widehat{\Xi}$ What do you mean by Galvanizing process?

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a Explain with neat sketch the gating system used in

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- ত What is creep? Explain the various stages.
- a) Differentiate forward and backward extrusion

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- চ Differentiate between hot and cold working.
- Write short note on:

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- <u>a</u> Types of Production
- ঙ Brazing and its uses
- Composite materials

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Section-C

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

- 10. 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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applications. Discuss the Powder metallurgy process & its

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