Paper / Subject Code: 51604 / Production Process -I

S.E. SEM III / MECH / CHOICE BASED / NOV 2018 / 11.12.2018

QP Code: 50738

[08]

[06]

[06]

03 Hours

[80 Marks]

N.B. a. Question no.1 is **compulsory**. b. Attempt any three questions out of remaining five questions c. Figures to right indicates full marks Q1 Write a short note on any **four** of the following [20] a. Compare brazing and soldering. b. CO₂ moulding c. Thread rolling d. Explosive welding e. Lapping and Honing Q2. a. With a neat sketch explain the principle and working of thermit welding. Also discuss [80] its advantages, limitations and application. b. Differentiate between the open loop and close loop system. [06] c. Explain the types of flames used in gas welding. [06] Q3. a. Describe the desirable properties of pattern materials. [80] b. Describe machining the operations performed on lathe machine. [06] c. What are automatic machines? Write its classification. [06] Q4. a. Describe the classification, selection procedure and application of drilling machine. [08] b. Explain blow moulding process with a neat sketch. [06] c. Differentiate between pattern and core box. [06] Q5. a. Discuss various defects found in rolled parts. [80] b. Define weldability and describe the factors affecting it. [06] c. Differentiate between hot working and cold working processes. [06]

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b. Define the terms 'Spread', 'Elongation' and 'Draft' with respect to rolling process.

Q6. a. With the help of a neat sketch explain the gating system in casting process.

c. Compare thermoplastics and thermosetting plastics.