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[4957]-1011

S.E. (Mech. & Auto. Engg.) (I Sem.) EXAMINATION, 2016
MANUFACTURING PROCESSES—I
(2012 PATTERN)

Time : Three Hours

Maximum Marks : 50

N.B. :— (i) Answer *four* questions.

(ii) Neat diagrams must be drawn wherever necessary.

(iii) Figures to the right indicate full marks.

(iv) Assume suitable data, if necessary.

1. (a) Explain centrifugal casting process with proper sketch. [6]
(b) Discuss gating system used in sand casting, with proper sketch. [6]

Or

2. (a) What is rolling operation ? Draw sketches of different rolling mills. [6]
(b) Compare hot working and cold working. [6]
3. (a) How the plastic pipes and sheets are made ? Explain with sketch. [6]
(b) What is the difference between pressure forming and vacuum forming ? [6]

Or

4. (a) What is the difference between welding, soldering and brazing ? Explain with any *three* points. [6]
(b) What is welding ? Classify the welding process. [6]

P.T.O.

5. (a) What is strip layout ? Explain with proper sketch. [6]
(b) What is center of pressure ? How is it calculated ? [7]

Or

6. (a) What are different types of dies ? Explain with proper sketches. [6]
(b) List different operations performed on sheet metal. Explain any *two* in detail with proper sketches. [7]
7. (a) What are different accessories used on lathe machine ? Explain any *two* accessories in detail with sketches. [7]
(b) With proper sketch explain any *two* operations performed on lathe machine. [6]

Or

8. (a) What are different parts of lathe machine ? Draw a block diagram of lathe and show parts on it. [6]
(b) What are different taper turning methods ? Explain tailstock offset method with proper sketch. [7]