sem-VI Mould 4 metal Forming Tech. / PROD /08-12-15

Q.P. Code: 6387

(3 Hours)

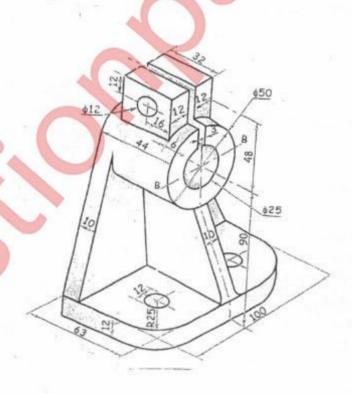
[Total Marks: 80



- 1. Figures to the right indicate full marks.
- 2. Attempt any four questions including Question No.1 is compulsory.
- 3. Illustrate answers with sketches if required.
- 4. Assume any suitable data wherever necessary.
- Q.No.1. The component shown in the figure no.1 is to be sand cast. Material of the component is steel. Assuming suitable data answer the following:

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- a). Select parting line.
- b). Design and sketch the required pattern and core boxes.
- c). Design the gating system.
- d). Calculate the required size of riser using Caines's method.
- e). Sketch the views of mold showing gating system and riser.



(all dimensions are in mm) Figure 1

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Q.No. 6. Answer the following

a). Explain defects in forged	products.
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- b). How seamless tubes are manufactured in extrusion process?
 c). Define stress, strain, true stress, true strain and permeability.
 d). Explain Thixo casting process.

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