

Model Question Paper (CBCS) scheme

15ME744

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Seventh Semester B.E. Degree (CBCS) Examination Dec - 2018/ Jan 2019

Design for Manufacturing

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

MODULE – I

- 1 a Explain briefly the guidelines for design for manufacturability. (10Marks)
b List some of the important properties of materials to be considered in the design process. (06Marks)

OR

- 2 a The material of a solid cylindrical tie rod of cross-sectional area "A" and length "L" is to be selected for carrying a tensile load "P" with factor of safety "S". Explain the process of material selection as per the cost per unit property method. (10Marks)
b Explain the effect of manufacturing processes on design. (06 Marks)

MODULE – II

- 3 a Explain with sketch selective assembly of model-I. (08Marks)
b With a neat sketch, explain the "projected tolerance zone". (08 Marks)

OR

- 4 a What are laminated shims? Explain with sketch, state materials used for shims. (08Marks)
b Explain virtual size concept and the advantages of true position tolerancing. (08 Marks)

MODULE – III

- 5 a Change the datum for the drawing of a pin from axis of hole to end face (see Fig. Q5 (a)). (10Marks)



Fig. Q5(a)

- b Explain "milling cutters" with sketches. (06Marks)
- OR
- 6 a Write short notes on simplification by separation and simplification by amalgamation. (10 Marks)
b Explain functional datum and manufacturing datum with an example. (06 Marks)

2. Any revealing of identification, appeal to evaluator and/or equations written e.g. $M_e = 2 \times 40$, will be treated as malpractice.

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

Mechanical Engineering 3rd Sem Question Papers

Joacim Rocklöv



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