

Fifth Semester B.E. Degree Examination, June/July 2013

Design of Machine Elements – I

Time: 3 hrs.

Max. Marks: 100

Notes: 1. Answer FIVE full questions, selecting at least TWO questions from each part.

2. Use of design data Hand book is permitted.

PART – A

1.
 - a. What are the basic requirements of machine elements? Explain briefly. (05 Marks)
 - b. What are the factors to be considered for selection of material for a machine component? (05 Marks)
 - c. A hollow shaft of 40 mm diameter and 25 mm inner diameter is subjected to a twisting moment of 118 N-m, a axial thrust of 9806 N and a bending moment of 79 N-m. Calculate the maximum compressive and shear stresses. (10 Marks)
2.
 - a. The frames of an automobile engine connecting rod have been so as to allow play which gives shock loading equivalent to a weight of 5886 N falling through a height of 0.2 mm. The connecting rod is 250 mm long and has a cross-sectional area of $3 \times 10^{-4} \text{ m}^2$. Determine the stress induced in the connecting rod. Compare the maximum stress induced with that of a static load of 5886 N. (06 Marks)
 - b. A bolt is subjected to a direct tensile load of 20 kN and a transverse shear force of 15 kN. Material of the bolt has a normal stress of 450 MPa at yield and Poisson's ratio of 0.25. Compute the root diameter of the bolt according to:
 - i) Maximum shear stress theory of failure and
 - ii) Von Mises's criterion for failure.
 Hence suggest suitable size of the bolt. Take a value of 3 for factor of safety. (07 Marks)
 - c. Determine the maximum stress induced in the following cases taking stress concentration into account:
 - i) A rectangular plate 50 mm wide, 8 mm thick and with a central hole of 10 mm is loaded in axial tension of 14.7 kN.
 - ii) A stepped shaft, stepped down from 45 mm to 30 mm with a fillet radius of 6 mm is subjected to a twisting moment of 98 N-m. (07 Marks)
3.
 - a. Derive Soderberg's equation for designing of a machine element with change in cross section, to sustain loads that fluctuate between two limits. (05 Marks)
 - b. A hot rolled steel shaft is subjected to a torsional moment that varies from 500 N-m clockwise to 100 N-m counter-clockwise as the bending moment at the critical junction varies from 400 N-m to -200 N-m. Neglecting the stress concentration effect, determine the required shaft diameter. The material has an ultimate strength of 550 MPa and a yield strength of 410 MPa. Take the endurance limit as half the ultimate strength and a factor of safety as 2. Assume surface, size and load factor for bending as 1.111, 1.1765 and 1 and that for torsion as 1.05263, 1.1765 and 1.7 respectively. (10 Marks)
4.
 - a. An M20 x 2 steel bolt of 100 mm long is subjected to impact load. The energy absorbed by the bolt is 2 N-m.
 - i) Determine the stress in the shank of the bolt if there is no threaded portion between the nut and bolt head.
 - ii) Determine the stress in the shank if the entire length of the bolt is threaded. Assume modulus of elasticity for steel as 206 GPa. (08 Marks)

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web asme code also known as asme boiler pressure vessel code or bpvc is the code that regulates the design development and construction of boilers and pressure vessels utilized in a variety of industries why is asme code important finding a heating system that adheres to asme s bpvc is important for a number of reasons including safety

asme b31 3 2014 american society of mechanical engineers - Dec 22 2022

web this international code or standard was developed under procedures accredited as meeting the criteria for american national standards and it is an american national standard the standards committee that approved the code or standard was balanced to assure that individuals from competent and concerned interests have had an opportunity