## 1,19626

#### Fifth Semester B.E. Degree Examination, June/July 2013 Design of Machine Elements - I

Timese: 3 bees.

Milanc: Milarics: 1000

Note: 1. Answer FIFE full questions, relecting at least TWO questions from each part. Une of decign data Hand book is permitted.

PARTICAL

- What are the basic requirements of machine elements? Explain briefly,
  - What are the factors to be considered for selection of material for a machine desponent?

COS Miles Back

- A boliow shaft of 40 mm diameter and 25 mm inner diameter is athieved to a twisting. momenCell J.H. N-m, a axial thrust of 9806 N and a bending moragh, of 79 N-m. Calculate the massimum compressive and show stresses. Children Bellementher Co.
- 25 100 The brances of an automobile engine connecting rod have when, so as to allow play which gives shock loading againstent to a weight of 5896 N Galling through a bright of 0.2 mm. The connecting and it 250 mm long and has a cross sectional area of 3 × 10 ° m'. Determine the stress induced in the connecting rod. Corregce the maximum stress induced with that of a static load of 5886 No. 2006 Milesthold
  - b. A bolt is subjected to a direct tipfsile load of 20 kN and a transverse shear force of 15 kN. Material of the bolt has a recenal/stress of 350 MPs at vield and Poisson's ratio of 0.25. Compute the most diameter of the bell according to:
    - Maximum shear stress theory of childge and
    - (ii) Von Mise's criterion for fallgipt.
    - Hence suggest suitable size of the bolt. Take a value of 3 for factor of safety.
  - Describe the maximum attent induced in the fallowing cases taking stress concentration Indian appropriately
    - A rectangular plate S0 mm wide, 8 mm thick and toth a central hole of 10 mm is loaded. in axial tension 64.14.7 kN.
    - iii A stepped shall, stepped down from 45 mm to 30 mm with a fillet radius of 6 mm is subjected to a twinting measure of 98 N-m. ART MEANSON
- Derive Soderberg's equation for designing of a machine element, sigh change in crosssection, to sustain loads that fluctuate between two limits.
  - A bel rolled stort shuft in subjected to a torsional moment that varies from 300 N-m Chickwise to 100 N-m counterclockwise as the bending excesses at the critical justice varies from 400 N-m to - 200 N-m. Neelecting the stress concentration effect, ditempine the required shaft diameter. The material has an ultimate strength of 550 MPs and a yield strength of 410 MPs. Take the endurance limit as half the ultimate strength and a figher 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... A 1995 Self-model of Co.
- 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.
  - Determine the stress in the shank of the bolt if there is no threaded portion between the thought should beauty town
  - ii) Determine the streen in the shank if the entire length of the bolt is threaded.

Assume exodulus of classicity for steel as 206 GPa.

ARREST SANCAR SANCE.

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