

Sixth Semester B.E. Degree Examination, Dec.2013/Jan.2014
Design of Machine Elements – II

Time: 3 hrs.

Max. Marks:100

- Note:** 1. Answer FIVE full questions, selecting at least TWO questions from each part.
 2. Use of data handbook is permitted.
 3. Missing data may be suitably assumed.

PART – A

- 1 a. A curved link mechanism made from a round steel bar is shown in Fig.Q1(a). The material for link is plain carbon steel 30C8 with an allowable yield strength of 400 MPa. Determine the factor of safety. (10 Marks)

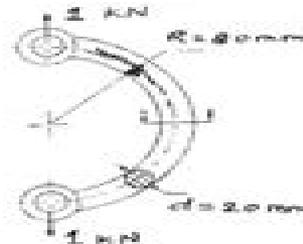


Fig.Q1(a)

- b. A high pressure cylinder consists of a steel tube with inner and outer diameter of 20 mm and 40 mm respectively. It is jacketed by an outer steel tube with an outer diameter of 60 mm. The tubes are assembled by shrinking process in such a way that maximum principal stress induced in any tube is limited to 100 MPa. Calculate the shrinkage pressure and original dimensions of the tubes. Take the Young's modulus as 207 GPa. (10 Marks)
- 2 a. Write a note on construction of flat and 'V' belt. (05 Marks)
 b. It is required to design a 'V' belt drive to connect a 7.5 kW, 1440 r/min induction motor to a fan, running at approximately 480 r/min for a service of 24 hr/day. Space is available for a centre distance of about 1 m. Determine the pitch length of the belt and number of belts required. (15 Marks)
- 3 a. Enumerate the applications of springs. Also derive an expression for the deflection of a close coiled helical spring. (06 Marks)
 b. A spring is subjected to a load varying from 500 N and 1200 N. It is to be made of oil tempered cold drawn wire. Design factor based on Wahl's line is 1.25. The spring index is to be 6. The compression in the spring for the maximum load is 30 mm. Determine the wire diameter, mean coil diameter and free length of the spring. Take the yield stress in shear as 700 MPa and endurance stress in shear as 350 MPa for the material of the wire. (14 Marks)
- 4 a. Write a note on design of gears based on dynamic loading and wear. (06 Marks)
 b. A cast steel 24 teeth spur pinion operating at 1150 r/min transmits 3 kW to a cast steel 56 teeth spur gear. The gears have the following specifications:
 Module : 3 mm Allowable stress : 100 MPa
 Face width : 35 mm Tooth form : 14½° full depth profile
 Factor of dynamic loading, C= 350N/mm Wear load factor, K = 0.28 MPa.
 Determine the induced stress in the weaker gear. Also determine the dynamic load and wear load. Comment on the results. (14 Marks)



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Gayatri Patel



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