

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)

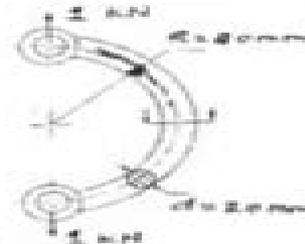


Fig.Q1(a)

- 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)



Engineering Science N26 July 2013 Question Paper

Dr Raman K Attri



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Modelling Accelerated Proficiency in Organisations Dr Raman K Attri, 2022-05-31 This book presents a research thesis of a large scale study conducted with over 50 large organizations in 7 countries with 80 business leaders to understand how businesses speed up the proficiency of their employees to meet business challenges The book describes a start to end research study that explored the concept of accelerated proficiency of employees in organizations The book is organized into five chapters The book introduces the concept of accelerated proficiency in a business context in light of reviews of four decades of classic studies The research methodology to identify sources recruit participants and the mechanism to collect as well as analyze data have been explained in detail The book reveals six business practices implemented by organizations across the board that seem to make a major impact in shortening the time to proficiency of

employees Important observations and findings have been discussed as implications in regards to how organizations orchestrated six business practices as an input output feedback system to reduce the time to proficiency of the workforce The book briefly explains how these six practices were implemented through a set of twenty four strategies in various contexts The concepts and findings discussed in this book contribute significantly to the body of knowledge on accelerated proficiency In particular the conceptual model and the framework developed in this study can be implemented across a range of contexts business sectors job types and settings to reduce the time to proficiency of the workforce

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