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Third Semester B.E. Degree Examination, June/July 2017 Mechanical Measurements and Metrology

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- | | | | |
|---|----|--|------------|
| 1 | a. | Brief the need of Inspection. | (04 Marks) |
| | b. | What are the principles of measurements? | (04 Marks) |
| | c. | Explain the process of measurement. | (04 Marks) |
| | d. | What are the causes of Errors in measurements? | (04 Marks) |

OR

- | | | | |
|---|----|--|------------|
| 2 | a. | Explain the wavelength standard of measurements. | (04 Marks) |
| | b. | What care should be taken in use of slip gauges? | (04 Marks) |
| | c. | What is Sine bar? Explain the principle of sine bar. | (04 Marks) |
| | d. | With a sketch, explain the principle of auto collimator. | (04 Marks) |

Module-2

- | | | | |
|---|----|--|------------|
| 3 | a. | Explain the types of fits. | (04 Marks) |
| | b. | What is Hole basis and Shaft basis system? | (04 Marks) |
| | c. | Define the Interchangeability and Selective Assembly. | (04 Marks) |
| | d. | Explain the compound tolerance, with a suitable example. | (04 Marks) |

OR

- | | | | |
|---|----|---|------------|
| 4 | a. | What are the materials used in gauge manufacturing? | (04 Marks) |
| | b. | List the functional requirements of a comparator. | (04 Marks) |
| | c. | With a neat sketch, explain the optical comparator. | (08 Marks) |

Module-3

- | | | | |
|---|----|--|------------|
| 5 | a. | How do you measure the minor diameter of Internal threads? | (04 Marks) |
| | b. | What is "Best Size wire"? Derive the best wire size in terms of pitch and flank angle. | (08 Marks) |
| | c. | With a sketch, show the terminology of a spur gear. | (04 Marks) |

OR

- | | | | |
|---|----|---|------------|
| 6 | a. | With a neat sketch, explain the gear roll tester for composite error measurement. | (08 Marks) |
| | b. | Explain the basic concept of coordinating measuring machine. | (08 Marks) |

Module-4

- | | | | |
|---|----|--|------------|
| 7 | a. | What is the significance of measurements? | (04 Marks) |
| | b. | Explain in detail, the Generalized Measuring System. | (08 Marks) |
| | c. | What is Transfer Efficiency? | (04 Marks) |

OR

Mechanical 7th Sem Question Papers

Horace Adelbert Hollister



Mechanical 7th Sem Question Papers:

Mechanical System Design Anup Goel, 2020-12-01 In machine design or design of machine elements we study about the design of individual components of machinery like shafts keys belts bolts gears etc In mechanical system design we means that how these components are going to work in collaboration reliability of the system when different components work together This book includes design of conveyors for material handling systems belt conveyors design of multispeed gearbox for machine tools design of I C engine components and optimum design It also includes the design of pressure vessels used in mechanical systems This book provides a systematic exposition of the basic concepts and techniques involved in design of mechanical systems Our hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge *Systems in Mechanical Engineering* Anup Goel, 2021-01-01 Mechanical engineering as its name suggests deals with the mechanics of operation of mechanical systems This is the branch of engineering which includes design manufacturing analysis and maintenance of mechanical systems It combines engineering physics and mathematics principles with material science to design analyse manufacture and maintain mechanical systems This book covers the field requires an understanding of core areas including thermodynamics material science manufacturing energy conversion systems power transmission systems and mechanisms This book includes basic knowledge of various mechanical systems used in day to day life My hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge **Elements Of Civil & Mechanical Engineeri** L S Jayagopal, This book presents the fundamentals of Civil and Mechanical Engineering Designed as per the revised and new core engineering paper of Basic Engineering I this book is written in a style suitable for students just out of school *Principles of Mechanical Engineering (MDU)* Sadhu Singh, 2010 For the students of B E B Tech of Maharshi Dayanand University MDU Rohtak and Kurukshetra University Kurukshetra The book contains a large no of solved and unsolved problems This has been supplemented with Multichoice questions review questions true and false and fill in the blanks type of questions **Mechanical Drawing** Willard Walter Ermeling, Ferdinand August Paul Fischer, George Gould Greene, 1923 **Mechanical Engineering** American Society of Mechanical Engineers, 1947 *Revue Semestrielle Des Publications Mathématiques*, 1911 *Journal of the American Society of Mechanical Engineers*, 1913 **Material Engineering Practice IX** Mária Mihaliková, Pavol Zubko, 2014-12-11 Selected peer reviewed papers from the 9th International Conference on Material in Engineering Practice IX June 12 13 2014 Her any Slovak Republic **Mechanical World and Engineering Record**, 1939 **Index of Conference Proceedings Received** British Library. Lending Division, 1980 *Link*, 1971 **Congressional Record**, 1882 **Engineering English** John Hubert Scott, 1928 **Nature** Sir Norman Lockyer, 1924 **Educational Research Bulletin**, 1924 *Industrial-arts Magazine*, 1928 *Science and Art of Mining*, 1924 **Proceedings of the High**

School Conference of November 1910-November 1931 Horace Adelbert Hollister,1927
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