Time: 3 hrs.

(04 Marks)

(08 Marks)

(04 Marks)

Max. Marks: 80

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

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Note: Answer FIVE t	Gulff armanettamen	alconding one	Sall accountion	frank hack medula

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		Module-1	
1	20.	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	38.2	Explain the types of fits.	(04 Marks)
	ъ.	What is Hole basis and Shaft basis system?	(04 Marks)
	· O.	Define the Interchangeability and Selective Assembly.	(04 Marks)
	d.	Explain the compound tolerance, with a suitable example.	(04 Marks)
4	0.0	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	40	How do you measure the minor diameter of Internal threads?	(04 Marks)
	ь.	What is "Best Size wire" Derive the best wire size in terms of pitch and flank an	
			(08 Marks)
	C.	With a sketch, show the terminology of a spur gear.	(04 Marks)
		OR	
6	St.	With a neat sketch, explain the gear roll tester for composite error measurement.	(08 Marks)
	ь.	Explain the basic concept of coordinating measuring machine.	(08 Marks)

OR.

Module-4

What is the significance of measurements?

What is Transfer Efficiency?

Explain in detail, the Generalized Measuring System.

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- 1. Understanding the eBook Mechanical Sample Paper 3 Semester G Scheme
 - The Rise of Digital Reading Mechanical Sample Paper 3 Semester G Scheme
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mechanical Sample Paper 3 Semester G Scheme
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanical Sample Paper 3 Semester G Scheme
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mechanical Sample Paper 3 Semester G Scheme
 - Personalized Recommendations
 - $\circ\,$ Mechanical Sample Paper 3 Semester G Scheme User Reviews and Ratings
 - Mechanical Sample Paper 3 Semester G Scheme and Bestseller Lists
- 5. Accessing Mechanical Sample Paper 3 Semester G Scheme Free and Paid eBooks
 - Mechanical Sample Paper 3 Semester G Scheme Public Domain eBooks
 - Mechanical Sample Paper 3 Semester G Scheme eBook Subscription Services
 - Mechanical Sample Paper 3 Semester G Scheme Budget-Friendly Options

- 6. Navigating Mechanical Sample Paper 3 Semester G Scheme eBook Formats
 - o ePub, PDF, MOBI, and More
 - Mechanical Sample Paper 3 Semester G Scheme Compatibility with Devices
 - Mechanical Sample Paper 3 Semester G Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanical Sample Paper 3 Semester G Scheme
 - Highlighting and Note-Taking Mechanical Sample Paper 3 Semester G Scheme
 - Interactive Elements Mechanical Sample Paper 3 Semester G Scheme
- 8. Staying Engaged with Mechanical Sample Paper 3 Semester G Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Sample Paper 3 Semester G Scheme
- 9. Balancing eBooks and Physical Books Mechanical Sample Paper 3 Semester G Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Sample Paper 3 Semester G Scheme
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Sample Paper 3 Semester G Scheme
 - Setting Reading Goals Mechanical Sample Paper 3 Semester G Scheme
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Sample Paper 3 Semester G Scheme
 - Fact-Checking eBook Content of Mechanical Sample Paper 3 Semester G Scheme
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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