

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

(ISO/IEC - 27001 - 2013 Certified)

Model Answer: Summer- 2019

Subject: Strength of Materials

Sub. Code: 22306

Important Instructions to examiners:

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more importance. (Not applicable for subject English and Communication Skills.)
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by the candidate and those in the model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and the model answer.
- 6) In case of some questions credit may be given by judgment on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.

Que. No.	Sub. Que.	Model Answer	Marks	Total Marks
Q.1		Attempt any Five of the following:		(10)
	a)	Define:		
		(i) Moment of Inertia		
		(ii) Radius of Gyration		
	Ans.			
		i) Moment of Inertia: Moment of Inertia of a body about any axis is		
		equal to the product of the area of the body and square of the distance		
		of its centroid from that axis.	1	
		OR		30.000.00
		Moment of inertia of a body about any axis is defined as the sum of		2
		second moment of all elementary areas about that axis.		
		ii) Radius of Gyration: Radius of Gyration of a given area about any	10	
		axis is that distance from the given axis at which the entire area is	336	
		assumed to be concentrated without changing the M. I. about the		
		given axis.		
	b)	State the relation between Young's modulus and bulk modulus.		
	Ans.	$E = 3K(1 - 2\mu)$	2	2
		Where, E= Young's Modulus		
		K= Bulk Modulus		
		μ= Poisson's Ratio		

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Table of Contents Msbte Model Answer Paper Summer212089

- 1. Understanding the eBook Msbte Model Answer Paper Summer212089
 - The Rise of Digital Reading Msbte Model Answer Paper Summer212089
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Msbte Model Answer Paper Summer212089
 - 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 Msbte Model Answer Paper Summer212089
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Msbte Model Answer Paper Summer212089
 - Personalized Recommendations
 - Msbte Model Answer Paper Summer212089 User Reviews and Ratings
 - Msbte Model Answer Paper Summer212089 and Bestseller Lists
- 5. Accessing Msbte Model Answer Paper Summer212089 Free and Paid eBooks
 - Msbte Model Answer Paper Summer212089 Public Domain eBooks
 - Msbte Model Answer Paper Summer212089 eBook Subscription Services

- Msbte Model Answer Paper Summer212089 Budget-Friendly Options
- 6. Navigating Msbte Model Answer Paper Summer212089 eBook Formats
 - o ePub, PDF, MOBI, and More
 - Msbte Model Answer Paper Summer212089 Compatibility with Devices
 - Msbte Model Answer Paper Summer212089 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Msbte Model Answer Paper Summer212089
 - Highlighting and Note-Taking Msbte Model Answer Paper Summer212089
 - Interactive Elements Msbte Model Answer Paper Summer212089
- 8. Staying Engaged with Msbte Model Answer Paper Summer212089
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Msbte Model Answer Paper Summer212089
- 9. Balancing eBooks and Physical Books Msbte Model Answer Paper Summer212089
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Msbte Model Answer Paper Summer212089
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Msbte Model Answer Paper Summer212089
 - Setting Reading Goals Msbte Model Answer Paper Summer212089
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Msbte Model Answer Paper Summer212089
 - Fact-Checking eBook Content of Msbte Model Answer Paper Summer212089
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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