

### MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

#### (ISO/IEC - 27001 - 2013 Certified)

# Model Answer: Summer- 2019

## Subject: Strength of Materials

22306 Sub. Code:

#### 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	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		40.000
		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	386	
		assumed to be concentrated without changing the M. I. about the		
		given axis.		
	<b>b</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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