



**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 <b>FIVE</b> of the following:		(10)
	(a) Ans.	<b>Define Hooke's law with expression.</b> <b>Hook's law.</b> It states that when a material is loaded within its elastic limit, the stress produced is directly proportional to the strain. $\sigma \propto \epsilon$ $\frac{\sigma}{\epsilon} = \text{Constant} = E$	1  1	2
	(b) Ans.	<b>Write down formula of M-I of quarter circle about its centroidal axes.</b> M.I. of quarter circle ( $I_{XX}$ ) = $0.055R^4$  M.I. of quarter circle ( $I_{YY}$ ) = $0.055R^4$	1  1	2
	(c) Ans.	<b>Define modulus of rigidity and bulk Modulus.</b> <b>Bulk Modulus (K):</b> When a body is subjected to three mutually perpendicular like stresses of same intensity then the ratio of direct stress and the corresponding volumetric strain of the body is constant and is known as Bulk Modulus. <b>Modulus of rigidity (G):</b> It is ratio of shear stress to shear strain, is called as Modulus of Rigidity.	1  1	2

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**J Elliott**



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