

# University of Mumbai

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Tel 29/16



**CONFIDENTIAL**  
**URGENT/BY HAND.**  
M.J. Phule Bhavan,  
Examinations Section,  
Vidyanagari Campus,  
Mumbai - 400 098.

No. EX/ICC/2015-16/07.....

## **CIRCULAR :-**

It is hereby informed to all the concerned that, the representations received from S.I.E.S. Graduate School of Technology students through the Principal, S.I.E.S. Graduate School of Technology, Nerul, Navi Mumbai, regarding subject of Finite Element Analysis at B.E. (Mechanical) (Sem VIII) examination held on 14/05/2015, was referred to the concerned Paper-setter for his opinion.

In reply, the concerned Paper-setter has suggested as under :-

"...It's my humble request to the student community that due to text formatting, some unintentional corrections have occurred in the question paper. These mistake I have only noticed/through the feedback obtained from various Engineering examination centres of our Mumbai University. I have replied to the manuscripts section immediately of our University within 45 minutes and those corrections have been uploaded to the examination forum for further communication to the students.

Question No.	Typographical mistakes/Data Missed	Corrections Suggested	Remarks
Q.2 a)	In the Problem i) Area A = (x+1) m <sup>2</sup> ii) Youngs Modulus E = 5 x 10 <sup>7</sup> pa	In the Problem i) Area A = (x+1) m <sup>2</sup> ii) Youngs Modulus E= 5 x 10 <sup>7</sup> Pa	If any of the student solved the above problem Q.2 a with Youngs modulus (E) as E=5 x 10 <sup>7</sup> pa instead of E = 5 x 10 <sup>7</sup> Pa, award full marks only after matching the reactions with applied external load at x = 0.75 m, other wise marks will be awarded as per the approach.
Q.2 b)	There are no corrections	----- NA -----	The result of Displacements and reactions are obtained in symbolic parameters.

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Q.3 a)	Temperature field at $x = 3.5$ cms	Temperature field at $x = 35$ cms	At the end, the temperature to be determined at $x = 35$ cms. If any of the student have determined the temperature field with $x=3.5$ cms instead of $x = 35$ cms awarded full marks based on his approach to the problem.
Q.4 b)	In the problem statement, it was printed as Load $P = 103\text{KN}$	In the problem statement, the load $P = 10^3 \text{KN}$ ,	But in the figure, the details of parameters are indicated very clearly The student can read the data from the figure. There was no ambiguity in the details of the parameters. For the benefit of the students, if any of the student have solved the truss problem with Load $P = 103\text{KN}$ , instead of load $P = 10^3 \text{KN}$ , award full marks by only verifying the reaction forces must match with applied external load. Rest of the conditions wont change.
Q. 5 b)		The material properties such as Young's Modulus $E$ , and Density of the Material ( $\rho$ ) has missed in the data. These are symbolic parameters	The mentioned two parameters are to be considered/assumed for attaining the solution. If any of the students solved this problem with or without considering these parameters and followed the appropriate approach, award full marks without looking into the end results.

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Q 7 a)	In the table, the values for Gauss Leander Quadrature method	The values in the table are given as			Its self explanatory. Even though if any of the student have solved with or without corrections, award full marks for the approach instead of looking at the result.																										
		<table border="1"><thead><tr><th>r</th><th><math>\epsilon_i</math></th><th><math>W_i</math></th></tr></thead><tbody><tr><td>2</td><td>+0.5774</td><td>1.0</td></tr><tr><td>3</td><td>0.0</td><td>0.8889</td></tr><tr><td></td><td>+0.7746</td><td>0.5556</td></tr></tbody></table>	r	$\epsilon_i$		$W_i$	2	+0.5774	1.0	3	0.0	0.8889		+0.7746	0.5556	<table border="1"><thead><tr><th>r</th><th><math>\epsilon_i</math></th><th><math>W_i</math></th></tr></thead><tbody><tr><td>2</td><td>+0.5774</td><td>1.0</td></tr><tr><td>3</td><td>0.0</td><td>0.888</td></tr><tr><td></td><td>+0.7746</td><td>9</td></tr><tr><td></td><td></td><td>0.555</td></tr><tr><td></td><td></td><td>6</td></tr></tbody></table>	r	$\epsilon_i$	$W_i$	2	+0.5774	1.0	3	0.0	0.888		+0.7746	9			0.555
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I am extremely sorry for the inconvenience caused during the examination. Hence I humbly requesting to your kind selve, to kindly suggest the examiners at the time of evaluating the answer scripts of the students, and give some benefit to the students by considering my above remarks.”

The above suggestions have been accepted by the Vice-Chancellor.

In view of the above suggestions, made by the concerned Paper-setter, the concerned examiners and moderators are hereby requested to take immediate action accordingly.

Mumbai – 400 098.  
24<sup>th</sup> June, 2015

  
(Dinesh Bhonde)  
Controller of Examinations

To,

The All Principal of the Engineering colleges and The Director, CCF, The Deputy Registrar, CAP, The Deputy Registrar, Results Examinations Section, Vidyanagari Campus, Mumbai – 400 098, for information and necessary action.

Copy to information to :-

- 1) P.A. to the Vice Chancellor, University of Mumbai, Fort, Mumbai – 400032.
- 2) P.A. to the Pro Vice Chancellor, University of Mumbai, Fort, Mumbai – 400032.
- 3) P.A to Controller of Examinations, M.J. Phule Bhavan, University of Mumbai, Vidyanagari, Mumbai – 400098.