

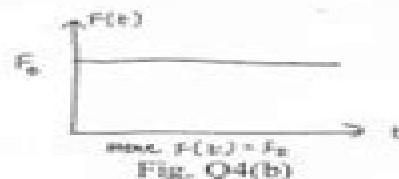
**First Semester M.Tech. Degree Examination, Dec. 2013/Jan. 2014**  
**Structural Dynamics**

Time: 3 hrs.

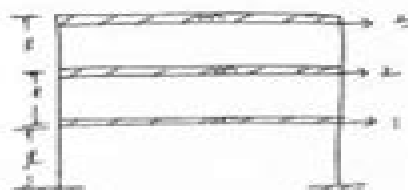
Max. Marks: 100

Note: Answer any FIVE full questions.

1. a. What is damping? What are the methods to evaluate damping? Explain any one method. (10 Marks)
- b. A spring mass system has spring stiffness of 'K' N/mm and mass 'W' N. It has natural frequency of vibration of 12 Hz. An extra 20 N mass is coupled to 'W' and the natural frequency reduces by 2 Hz. Find 'K' and 'W'. (10 Marks)
2. a. Obtain the expression for the response of a damped SDOF system subjected to initial conditions. Discuss the three cases of damping. (14 Marks)
- b. A spring mass system  $k_1$  and  $m_1$  has a natural frequency  $f_1$ , calculate the values of  $k_2$ , which is another spring which when connected to  $k_1$  in parallel increases the frequency by 30 %. (06 Marks)
3. a. Derive an expression for undamped forced vibration of SDOF subjected to harmonic force. (10 Marks)
- b. A machine of  $w = 90$  kN is supported on springs of  $k = 6.35 \times 10^{11}$  N/mm, subjected to an exciting force of 500 kN  $w = 60$  rad/s, assuming 20% of damping find :  
 steady - state amplitude  
 force - transmitted to foundation. (10 Marks)
4. a. Derive the expression for Duhamel's integral for the response of SDOF system subjected to arbitrary excitation. (12 Marks)
- b. Obtain the response of undamped and damped SDOF system subjected to a suddenly applied constant force of magnitude  $F_0$ . (08 Marks)



5. For the shear building, compute the natural frequencies and mode shapes, plot the mode shapes and prove their orthogonality. Refer Fig. Q5. Given  $m = 12800$  kg,  $EI = 20,000$  kN/m<sup>2</sup>. (20 Marks)



# Engineering Science N2013 Question Papers Memorum

**M Carnoy**



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