

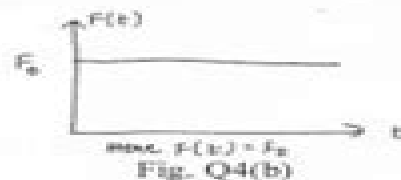
First Semester M.Tech. Degree Examination, Dec. 2013/Jan. 2014
Structural Dynamics

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/m². (20 Marks)



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