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

Time: 3 hrs.

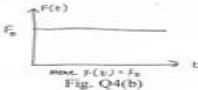
Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 /a. What is damping? What are the methods to evaluate damping? Explain any one method.
 - 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)
- 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 k₁ and m₁ has a natural frequency f₁ calculate the values of k₂, which is another spring which when connected to k₁ in parallel increases the frequency by 30 %.
 (96 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 × 10¹¹ 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)

- a. Derive the expression for Dulamel's integral for the response of SDOF system subjected to arbitrary excitation.
 - Obtain the response of andamped and damped SDOF system subjected to a suddenly applied constant force of magnitude F₀.



For the shear building, compute the natural frequencies and mode shapes, plot the mode shapes and prove their orthogonally. Refer Fig. Q5. Given m = 12800 kg, EI = 20,000 kN/m². (20 Marks)



Fig. Q5



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