# Chapter 19

### MECHANICAL VIBRATIONS

PROBLEM NO. 1

betermine the maximum velocity and maximum acceleration of a particle which moves in simple harmonic motion with an amplitude of 3 mm and a frequency of 20 th.

SOLUTION:

trequency: f = 20 Bz

Wn = 211 = (211) (20) = 125.00 radis

Amplitude: 2m = 3mm

simple harmonic motion:

2 = 2msin (Wnt+4)

Vaja Waxm cos (Wat + 4)

maximum Velocity:

Vm = Wn 7m = (125-64 mods) (3mm)

2 mm FF 6 = :

Vm = 0-997 mis

maximum acceleration:

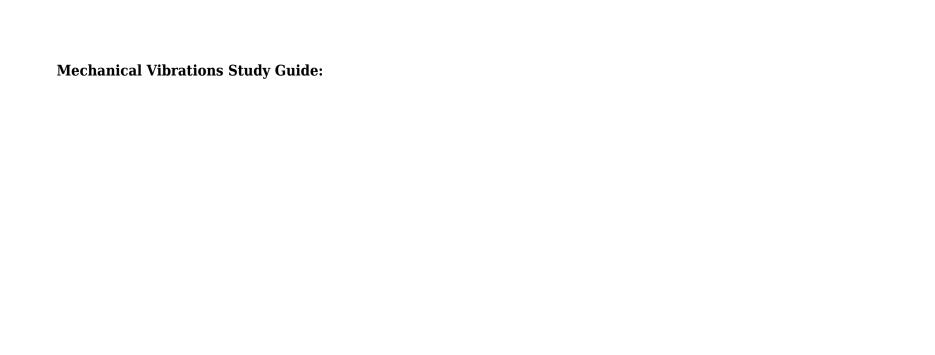
am = 7/1 7m = (125,06 rad(s) (2000)

= 47-3 x10 mmls2

am = 49.3 mls2

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