

Dantan II Govt. General Degree College

Assignment set for internal evaluation

Paper DSC 4, CC-4 , sem 4 , FM 30

GR-A Theory

1.1 What do you mean by interference and write down the types of interference with proper example .

1.2 Find out the condition of interference and explain the fringe width .

Or

2.1. (a) What are beats? Give an analytical description of the phenomenon of beats and show that the

beat frequency is equal to the difference between the frequencies of the component oscillations.

(b) What are the longitudinal and transverse waves? Give example for each.

(c) Explain the terms wave velocity and wave front.

Or

3.1 What is SHM, write down differential equation for simple harmonic equation, forced vibration and damped vibration .

3.2 Write down the laws of string vibration . Why open tube vibration is sweeter than closed tube vibration .

Gr B Practical

4.1 Discuss the wave length of unknown light using Newtons ring .

Or

4.2 From the theory of prism angles findings using spectrometer