



Shree H.N.Shukla group of colleges

PHYSICS

F.Y.B.Sc. (Sem. I) (CBCS)

Unit Test examination

PAPER- 101

UNIT 5 - ELASTICITY & OSCILLATION.

DATE :

Total marks :30

Instructions: All questions are compulsory.

The right side figure indicates total marks of the question.

Draw the figure wherever necessary.

Write answers of all the questions in main answer sheets.

SECTION-A

Q.1: One marks questions:

[5 MARKS]

- 1 Define : stress.
- 2 Define : poisson's ration.
- 3 Define : simple harmonic motion.
- 4 Write the unit of force constant.
- 5 Define : restoring force of a spring.

SECTION – B

Q.2 (A): Short Questions: Write all three : [2 Marks each]

[6 MARKS]

- 1 Explain elasticity and its types.
- 2 Explain types of strain.
- 3 What are the therotical value of poisson's ratio.

Q.2 (B) : Short questions: Write all three: [3 Marks each]

[9 MARKS]

- 1 Write short note on bulk modulus.
- 2 Explain conservation of energy in SHM.
- 3 Define damped harmonic motion.

Q.2 (C): Write Detail Note on [Any two]: [5 Marks each]

[10 MARKS]

- 1 Discuss : stress and strain.
- 2 Discuss : forced oscillation..
- 3 Explain type of modulus.
- 4 Explain various types of strain.