



Shree H.N.Shukla group of colleges

PHYSICS

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

Unit Test examination

PAPER- 201

UNIT - 1 : WAVE MOTION & SOUND.

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 _____ Waves carry sound in air.
- 2 _____ phenomena can not take place with sound.
- 3 Intensity of sound is directly prapotinal to _____.
- 4 Write relation between loudness and intensity.
- 5 What is mechanical waves?

SECTION – B

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

[6 MARKS]

- 1 What is longitudinal waves?
- 2 What is beats?
- 3 Define doppler effect.

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

[9 MARKS]

- 1 Derive newton's formulla for velocity of sound in air .
- 2 Explain wave motion.
- 3 Explain musical scale.

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

[10 MARKS]

- 1 State ans prove the laws of string.
- 2 Discuss standing waves on the string.
- 3 Discuss transverse wave travelling on a string and derive an expression for its velocity.
- 4 Explain beats in detail.