



## Shree H.N. Shukla group of colleges

PHYSICS

T.Y.B.Sc. (Sem. V) (CBCS)

Unit Test examination

PAPER- 503

UNIT 1 , 2 - AMPLIFIERS & SOLID STATE SWITCHING CIRCUIT.

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 1 BEL = \_\_\_\_\_ DB.
- 2 \_\_\_\_\_ coupled amplifier is used for impedance matching.
- 3 Bistable multivibrator is known as \_\_\_\_\_.
- 4 Monostable multivibrator is known as \_\_\_\_\_.
- 5 \_\_\_\_\_ generates square wave for its own.

### SECTION – B

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

**[6 MARKS]**

- 1 Draw the neat diagram of Astable Multivibrator.
- 2 Voltage gain of amplifier is 100 . Find its desible gain.
- 3 Drwa the neat diagram of class A power amplifier.

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

**[9 MARKS]**

- 1 Explain frequency response curve of tranformer coupling amplifier .
- 2 Explain thermal runaway.
- 3 explain complementary symmetry amplifier.

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

**[10 MARKS]**

- 1 Define : RC coupled amplifier with neat diagram.
- 2 Explain ; Pushpull amplifier.
- 3 Explain ; biased clipper.
- 4 Explain astable multi vibrator with neat diagram.