



Shree H.N.Shukla group of colleges

PHYSICS

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

Unit Test examination

PAPER- 503

UNIT 3,4 - POWER SUPPLY AND IC

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 Full form for CMRR _____.
- 2 The ideal bandwidth of OP-AMP is _____.
- 3 A zener diode regulator has law efficiency for _____.
- 4 What is op-amp?
- 5 Define : types of IC.

SECTION – B

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

[6 MARKS]

- 1 Explai CMRR.
- 2 Explain the scale integration of IC.
- 3 Define two or three advantage of IC.

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

[9 MARKS]

- 1 Explain op-amp as a volatge comparator.
- 2 Explain transisotr series voltage regulator.
- 3 Explain op-amp as an Unity follower.

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

[10 MARKS]

- 1 Explain op-amp as diffrenetiator .
- 2 Explain op-amp as an adder.
- 3 Explain transistor shunt voltage regulator.
- 4 Explain fabrication of monolithic IC.