

C 1269

Name.....

Reg. No.....

**FOURTH SEMESTER B.TECH. (ENGINEERING) [14 SCHEME] DEGREE
EXAMINATION, APRIL 2016**



EC 14 404—ELECTRONIC CIRCUITS—II

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

- I. (1) What is feedback amplifier ?
- (2) What is a UJT relaxation oscillator ?
- (3) What is a differential amplifier ?
- (4) Enumerate the methods to improve CMRR.
- (5) Distinguish between inductive and capacitive load.
- (6) Write short notes on miller circuits.
- (7) What is the working principle of class D power amplifier ?
- (8) Write short notes on broad banding using inductive loads.
- (9) Differentiate the working of astable and bistable multivibrators.
- (10) What are sweep circuits ?

(8 × 5 = 40 marks)

Part B

- II (a) Explain in detail about study of stability using Bode positive feedback.
Or
(b) Discuss in detail about LC and crystal oscillators.
- III (a) Explain in detail about BJT differential pair amplifier.
Or
(b) Discuss in detail about differential amplifier with active load.
- IV (a) Explain in detail about pulse response switching characteristics of a BJT.
Or
(b) Elaborate the working principle of sweep and bootstrap circuits.
- V (a) Explain in detail about class A, B, AB and C power amplifiers.
Or
(b) Discuss in detail about cascode amplifiers and Darlington pairs.

(4 × 15 = 60 marks)