

C 1271

Name.....

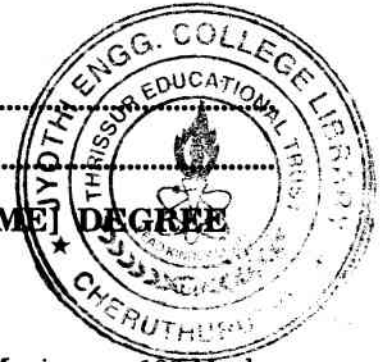
Reg. No.....

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

EC 14 406—ANALOG COMMUNICATION

Time : Three Hours

Maximum : 100 Marks



Part A

Answer all questions.

- I. (1) What do you mean by signal distortion ?
- (2) Write short notes on de-emphasis.
- (3) What is continuous wave modulation ?
- (4) Write short notes on frequency synthesis.
- (5) What is probability density function ?
- (6) Write short notes on ergodic process.
- (7) What do you mean by bandpass noise ?
- (8) Write short notes on FM threshold effect.
- (9) Define noise and list its types.
- (10) Explain about capture effect.

(8 × 5 = 40 marks)

Part B

- II. (a) Explain in detail about amplitude modulation and its generation and transmission.

Or

- (b) Discuss in detail about DSB-SC, SSB and VSB signals and spectra.

- III. (a) Explain in detail about quadratic carrier and time division phase locked loop operation.

Or

- (b) Discuss in detail about signals and spectra of Pulse Amplitude Modulation.

- IV. (a) Explain in detail about statistical averages and random processes.

Or

- (b) Elaborate about baseband signal transmission with noise.

- V. (a) Explain in detail about linear continuous wave modulation with noise.

Or

- (b) Discuss about analog pulse modulation with noise.

(4 × 15 = 60 marks)