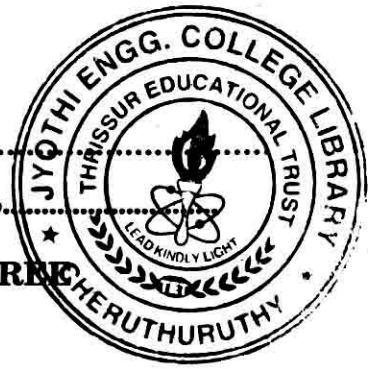


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Name.....

Reg. No.....



**SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, APRIL 2014**

EC/PTEC 09 L05—SATELLITE COMMUNICATION

(2009 Scheme)

[Regular/Supplementary/Improvement]

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

Each question carries 2 marks.

1. Define retrograde orbit and perigee.
2. What is a telemetry system ?
3. Define noise temperature.
4. What is a multiple access system ?
5. What is GPS ?

(5 × 2 = 10 marks)

Part B

Answer any four questions.

Each question carries 5 marks.

6. Discuss the effect of sun transit outage on solar communication.
7. Write briefly on satellite antennas.
8. Explain input back-off and output back-off.
9. Write briefly on VSAT system.
10. Explain a TDMA system.
11. Discuss on link power budget equation.

(4 × 5 = 20 marks)

Part C

Answer all questions.

Each question carries 10 marks.

12. (a) (i) Discuss on Kepler's laws.
(ii) Write notes on orbital perturbations.

Or

- (b) Explain on satellite launching and launch vehicles.

Turn over

13. (a) Explain about (i) Attitude and Orbit control system and (ii) Transponders.

Or

(b) Explain briefly antenna subsystems.

14. (a) Explain the satellite system noise.

Or

(b) Explain the effects of rain on satellite communication.

15. (a) Explain briefly FDMA and CDMA.

Or

(b) (i) Explain DAMA.

(ii) Write notes on DBS system.

(4 × 10 = 40 marks)