SATHYABAMA UNIVERSITY
(Established under section 3 of UGC Act, 1956)

Course & Branch: B.E – Aeronautical
Title of the paper: Avionics
Semester: VII   Max.Marks: 80
Sub.Code: 526E10   Time: 3 Hours
Date: 14-09-2009   Session: FN

PART - A   (10 X 2 = 20)
Answer ALL the Questions

1. What are the major drivers for avionics systems in military aircraft?

2. What is the ground based equipment?

3. Explain analog systems.

4. What is sampling frequency?

5. Define pave pace and pave pillar.

6. Define DVI.

7. What is the need for two different speeds in 629-ARINC.

8. Explain LED, LCD, and CRT.

9. Explain radar electronic warfare.

10. Define reliability.

PART – B   (5 x 12 = 60)
Answer All the Questions

11. Explain briefly about avionics sub systems.

(or)

12. Describe the role of avionics in civil, military and space systems.

13. What are the addressing modes of 8085? Explain with examples for each addressing modes.

(or)

14. What is counter? Describe 4 bit binary counter with its truth table.

15. Explain in detail the architecture of 8085 microprocessor.

(or)

16. Compare the different avionics systems architecture and bring out their merits and demerits.

17. Explain civil cockpit and military cockpit.

(or)

18. Explain briefly various color CRTs.

19. With a block diagram, explain flight control systems.

(or)

20. Explain briefly about navigation systems.