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: 26-09-2008 Session: FN

PART – A Answer All the Questions

 $(10 \times 2 = 20)$

- 1. What do you mean by system integration?
- 2. What is neat for a data bus?
- 3. What is software package?
- 4. What is data word structure in mil-500-1553?
- 5. What is flow chart?
- 6. What is ARNIC-629?
- 7. MFDS Vs MFK.
- 8. LED Vs LCD
- 9. OMECA Vs DECCA navigation system
- 10. GPS Vs GPWS

Answer All the Questions

11. Explain briefly the factors, which have, an impact on the digital avionics system design.

(or)

- 12. Briefly explain in follows
 - (a) engine control and management
 - (b) display systems for-CML aircraft.
- 13. Explain the basic element of a computer in detail.

(or)

- 14. "TYPE OF MEMORIES" in computer. Briefly explain.
- 15. Explain in detail the salient features of MIL 588-155BB Data bus used in modern military aircraft.

(or)

- 16. Matching the avionics to the AIRNIC 629 Discuss the Problem briefly.
- 17. What is MAP display? Explain its principle of operation.

(or)

- 18. Explain with necessary diagram the following
 - (a) Reflective optical system of HUD system
 - (b) Refractive optical system of HUD system
- 19. Explain in detail the units and operation of aircraft Transponder system.

(or)

- 20. Sort notes on:
 - (a) Reliability
 - (b) Virtual qualification
 - (c) Redundancy
 - (d) Accelerated testing