

Code No: 56073

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech III Year II Semester Examinations, April - 2018****AIRCRAFT SYSTEMS**
(Aeronautical Engineering)**Time: 3 hours****Max. Marks: 75****Answer any five questions**
All questions carry equal marks

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- 1.a) Explain in detail about the concept of system with every day examples.
- b) Write a short note on avionics systems. [8+7]
2. What are electrical loads in aircraft and explain about electrical power generation and load management systems. [15]
3. Explain the following terms with sketches:
 - a) Accumulator
 - b) Relief Valve
 - c) Pump
 - d) Reservoir. [15]
4. Explain the working of various environmental control systems in aircraft. [15]
5. Write about characteristics, components and operating modes of fuel systems in aircraft. [15]
- 6.a) What type of control linkages and actuations are used for aircraft controls.
- b) Write a short note on integrated flit and propulsion control. [8+7]
7. Explain about aircraft systems reliability, maintainability, product support – failure severity. [15]
8. Discuss about levels of aircraft systems integration with an example and aspects of safety. [15]

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