

R09

Code No: 56073

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, November/December - 2020

AIRCRAFT SYSTEMS
(Aeronautical Engineering)

Time: 2 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

1. Explain the specific requirements of aircraft systems with respect to mission requirements within operating environmental conditions. [15]
2. How electrical load protection system works? Write principle behind it. What is the necessity of this system? Explain with neat diagram. [15]
3. What are the hydraulic fluid properties required and its effect on aircraft systems? Explain in detail. [15]
4. What are the principal heat sources in aircraft? Explain the methods of cooling aircraft systems. [15]
5. Discuss about the fuel system characteristics, components, operating modes and fuel tank safety. [15]
6. Draw the layout of Flight control systems and explain its working principle. [15]
7. Discuss briefly about the modelling, simulation, testing in aircraft system design and development. [15]
8. Explain the levels on integration in aircraft systems with an example. [15]

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