Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – April / May – 2017**

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| **Code :** | **14AE2035** | **Duration :** | **3hrs** |
| **Sub. Name :** | **AIRCRAFT SYSTEMS** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. |  | With a neat sketch, explain about the parts and working principle of Aircraft Hydraulic system. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | Write in detail about the methods of actuation of Aircraft systems. | CO1 | 20 |
| 3. |  | Discuss in detail about the types of gas turbine engine fuel control systems. | CO2 | 20 |
| (OR) | | | | |
| 4. |  | Write in detail about the humidity control and air distribution systems in Aircrafts. | CO2 | 20 |
| 5. |  | Write about the deicing system components in detail with a neat sketch. | CO2 | 10 |
|  |  | Explain in detail about the maintenance of deicing system. | CO2 | 10 |
| (OR) | | | | |
| 6. | a. | Write short notes on Anti-icing using engine bleed air. | CO2 | 10 |
|  | b. | Write short notes on Anti-icing using exhaust heaters. | CO2 | 10 |
| 7. |  | Explain about the pilot life supporting and ejection system in detail. | CO1 | 20 |
| (OR) | | | | |
| 8. | a. | Write short notes on turbine engine dry sump lubrication system. | CO2 | 10 |
|  | b. | Write short notes on turbine engine wet sump lubrication system. | CO2 | 10 |
|  | | **Compulsory:** |  |  |
| 9. |  | Write short notes on the current trends in Aircraft systems. | CO1 | 20 |