

Reg.No. _____



Karunya UNIVERSITY

(Karunya Institute of Technology & Sciences)
(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

End Semester Examination – Nov/Dec – 2016

Code : 14AE2035
Sub. Name : Aircraft Systems

Semester : 2016-17 ODD
Duration : 3hrs
Max. marks : 100

ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)

Q. No.	Sub Div.	Questions	Course Outcome	Marks
1.	a.	Mention some of the characteristics and properties to be possessed by the fluid used in hydraulic systems.	CO1	10
	b.	Write a short notes on the types of hydraulic fluids currently being used in civil Aircrafts.	CO1	10
(OR)				
2.	a.	Explain about the flight control systems in detail.	CO2	20
3.	a.	Explain about the components and working principle of pump feed fuel system with a neat sketch.	CO2	20
(OR)				
4.	a.	Explain about the methods of environmental cooling in Aircrafts in detail.	CO2	20
5.	a.	What is icing of an aircraft? Explain in detail about location of icing, Method of control, icing effects and prevention methods.	CO1	20
(OR)				
6.	a.	Explain about the thermal anti icing system in detail with a neat sketch.	CO2	20
7.	a.	Write in detail about oxygen and fire protection systems in aircrafts.	CO2	20
(OR)				
8.	a.	Write about the all the components and its functions associated with the lubrication system in Gas Turbine Aircraft engines.	CO1	20
<u>Compulsory:</u>				
9.	a.	Write short notes on the starting and secondary power units in Aircrafts.	CO1	20

ALL THE BEST