## SSLC, HSE, DIPLOMA, B.E/B.TECH, M.E/M.TECH, MBA, MCA

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	Reg. No. :		y is
Qu	uestion Paper Co	de: 91061	
	GREE EXAMINATIONS, N Fourth Semeste Aeronautical Engine 2 – AIRCRAFT SYSTEMS A (Regulations 201	er eering AND INSTRUMENTS	019
Time : Three Hours		Maximum: 100	Marks
	Answer ALL quest	ions	
	PART - A	(10×2=20 I	Marks)
1. List out the types	of selector valves used in hyd	raulic systems.	
2. What do you mean	n by anti-skid system ?	come deal street Also discuss	
3. What are the fligh	ht control surfaces on an aircra	aft?	
\//\/	n by active control technology mary requirements of a fuel sy	COMM	S.
6. Why lubricating s	system is necessary for an airc	eraft?	
7. Explain the princi	iple involved in Systron-donne	er fire detection technique used	l in
	difference between anti-icing	and de-icing systems?	
8. What is the basic		nstrument.	
	and speed of response of an ir		
9. Define sensitivity	and speed of response of an invoking principles of gyroscopic		
9. Define sensitivity			Marks)
9. Define sensitivity 10. Write down the w	vorking principles of gyroscopic  PART – B  neat sketches the working of t	c instruments. (5×13=65 l	
<ol> <li>Define sensitivity</li> <li>Write down the w</li> <li>a) Explain with r</li> </ol>	vorking principles of gyroscopic  PART – B  neat sketches the working of t	c instruments. (5×13=65 l	
<ul><li>9. Define sensitivity</li><li>10. Write down the w</li><li>11. a) Explain with a for the Boeing</li><li>b) i) What are to</li></ul>	PART – B neat sketches the working of t	c instruments. (5×13=65 left) the typical hydraulic system usuatic system? Explain with n	sed eat
9. Define sensitivity 10. Write down the w  11. a) Explain with r for the Boeing  b) i) What are t sketches a	PART – B neat sketches the working of to (727 aircraft. (OR) the components of the pneum	c instruments.  (5×13=65 l the typical hydraulic system used in aircraft power plane	sed

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91061 12. a) With neat illustrations, explain in detail about the working principle of power assisted and fully power assisted controls systems. (OR) b) i) Explain in brief about the working principle and operation of autopilot system with neat sketches. ii) Explain in brief about the various modern control systems. (6) 13. a) Explain the fuel system for Boeing 727 aircraft with a neat sketch. (OR) b) i) Explain with neat sketches the working of any two gas turbine starters (8) with neat sketches. ii) Explain briefly about the types of lubrication oil system used in jet (5) engine. 14. a) i) Explain the working principle of evaporative vapour-cycle in detail with (10)neat sketches. Also discuss its merits and demerits. (3) ii) Write short notes on cooling packs. (OR) b) With neat sketches, explain in detail about the fire protection and smoke (13)detection techniques used in aircrafts. 15. a) Explain the working principle of following instruments with neat sketches: (4) i) Air speed indicator. ii) Altimeter. (4) (5) iii) Gyroscope. (OR) b) What are the various types of engine instruments? Briefly explain any two types in detail. (13)PART - C (1×15=15 Marks) 16. a) Explain the brake system for Boeing 757 airplane with neat sketches. (OR) b) With necessary sketches, discuss in detail about the cabin pressurization systems of modern aircrafts.