For Notes, Syllabus, Question Papers: www.AllAbtEngg.com

	Reg. N	No.:									0140
	Question	n Par	oer (ode	e : 4	10	520	0			
	/B.Tech. DEGI Ac 66402 – AIRCR	Four eronaut AFT SY	th Sem ical En	ester gineer S ANI	ing D IN						
Time : Three Hou	ırs						Ma	xim	ım:	100	Marks
		Answer	ALL qu		s			(10	×9=	20 1	[arks]
1 What is the	purpose of relief				tom	2		(10	A4-	20 14	iaiks
	ne main landing			inc sys	ж	30					
	ree primary con			lane							
4. What is auto		010 101	mi uii þ								
	advantages of	having f	uel inje	tion s	ysten	in p	istor	n eng	ine u	ised	in
\/\	nt by "HOT STA es of aircraft us	1.1		ш		ition	ing'	syste	m.		
8. What is 'Pur	ging' the oxyger	n system	?								
9. What are the	e applications of	f 'ALTIM	ETER'	as a fl	ight i	nstr	ımer	ıt?			
10. State the im	portance of engi	ine instr	uments								
		P	ART –	3				(5×	13=	65 N	[arks]
11. a) Explain diagrams		rinciple	of a si	mple	hydr	aulio	e sys	tem	witl	n ne	at
	(OR)										
	the principle of monly used.	operatio	n of the	two ty	pes of	shoo	ck-ab	sorb	ing la	andi	ng

For Notes, Syllabus, Question Papers: www.AllAbtEngg.com

40520		
12. a)	Explain with the help of an aircraft sketch about the fully powered flight control systems. (OR)	
b)	With the sketches, explain the push pull rod system.	8
13. a)	With an aid of a diagram, describe the working principle fuel system used for turbojet engine.	
	(OR)	
b)	Describe the starting procedure of piston engine aircraft.	
14. a)	Explain the operating principle of Fire Protection Systems with neat sketches.	
	(OR)	
b)	Explain Boost strap air cycle system operation with neat sketches.	
15. a)	With the aid of diagram, explain the working principle of accelerometer. (OR)	
b)	Describe with sketch a mechanically operated techometer by the use of a fly weight mechanism.	
16. a)	PART – C (1×15=15 Marks) Explain digital Fly by wire system.	
	(OR)	
b)	In what ways is the knowledge and understanding of aircraft instruments and instrument systems important for the technician?	
	6.60=81=60	