Q. P. Code: 31862

	Time: 2:30 Hours	Marks: 75
Note:		
(i) Atten	npt all questions	
(ii) Ansv	wers must be supported with sketches and graphs as applicable	
(iii) Que	stions 1 to 5 carry 15 Marks each	
(iv) Sub	questions a, b, c, d & e carry 5 marks each	
1	Attempt ANY THREE:	15
	a) Explain slipstream effect due to propeller	5.83335
	b) Write a note on T/O N1% thrust setting and G/A N1%	5
	c) write a note on throttle response in jet engine	5
	d) Give advantages of POD mounting of engines on wing (under wing)	5
	e) Explain the concept of FOD (Foreign Object Damage)	5
2	Attempt ANY THREE:	15
	a) Explain the term coffin corner	§° 5
	b) Describe Mach Trim system	5
	c) Effect of sweep back angle on wing drag and aircraft speed	5
	d) Explain the term Hydroplaning (Acqua planning)	5
	e) Describe the function of Yaw damper system	5
		5
3	Attempt ANY THREE:	15
	a) Describe briefly, Take off from Contaminated runway	5
	b) V1 adjustment required for take off from wet runway	5
	c) Aircraft operation associated with Volcanic ash	5
	d) Write a note of A/C Gear down despatch	5
	e) Emergency Brakes system	5
4	Attempt ANY THREE:	15
	a) Outline, Procedure on Bird-hit	5
	b) Landing gear steering system	5
	c) Write note on Noise measurement	5
	d) Explain the term Flex temperature	5
	e) Explain the term, super stall	5
5	Attempt ANY THREE:	15
	a) Explain the term jet upset	5
	b) Emergency Descent procedure for explosive decompression	5
	c) Write a note on noise generated by aircraft	5
	d) When does the engine go into flight idle rpm, in flight?	5
	e) High speed buffet & high speed stall	5
