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PARUL UNIVERSITY

Faculty of Engineering & Technology B Tech Examination

Branc	et Name: Introduction to Aerona h/Semester: Aeronautical/3 rd 02:30 to 04:00 PM]		Subject Code: 203 [Date: 03/08/2022] Total Marks: 40]	101211				
Sr.No. Q.1	(A) Multiple Choice Questions			Marks 05				
	(1) Supersonic Mach Number is							
	(a) = 1	(b) < 1						
	(c) > 1	(d) None of ab	ove					
	(2) Wings are used to the airpla							
	(a) control	(b) lift						
	(c) propel	(d) None of ab						
	(3) is controlled by the rudder on the tail of the plane.							
	(a) Roll	(b) Yaw						
	(c) Pitch	(d) None of a	bove					
	(4) The provides space and equipment.	support for cargo,	passengers, and other					
	(a) cockpit	(b) engine						
	(c) fuselage	(d) None of a	ibove					
	(5) Heat is added in the							
	(a) turbine	(b) comp	ressor					
	(c) combustion chamber	(d) None of						
	(B) Fill in blanks (1) is a component of engine that works in adverse pressure gradient condition.							
	(2) The aircraft structure that provides wing its aerodynamic shape is							
	(3) Tail section of the airplane is termed as							
	(4) Spoilers on the wings	the lift.						
	(5) Pitching moment is about the airplane.	· .	axis of the					
Q.2	Attempt any four(Short Questions (1) Illustrate aircraft components wit (2) What are the components of when the state of t	h sketch.	support the airframe	12				

(3) What is the function of nozzle of an engine? (4) What are the different types of aircraft engines?

Enrolln	ient No	.:

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- (5) Explain working of elevators in controlling the airplane.
- Q.3 Attempt any two

08

- (1) Explain Elevator Trim Tab System.
- (2) What is the function of spar?
- (3) Briefly describe Ramjet engine.
- Q.4 (A) Compulsory

05

Illustrate P-v and T-s diagram of an ideal turbojet (gas turbine) engine.

(B1) How does rocket engine works?

05

OR

(B2) How does wings generate lift?

05