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2.	SECTION-B contains FIVE questions carrying FIVE marks each and st have to attempt any FOUR questions.	tudents
3.		tudents
	SECTION-A	
01	Distinguish haters on the full series of	$(10, \sqrt{2})$

Distinguish between the following : Q1

INSTRUCTIONS TO CANDIDATES :

-er and Camber line. c) Laminar flow and Turbulent flow. d) Upwash and Downwash.

- f) Lift and Weight.
- g) Mach number and Critical Mach number.
- h) Collective pitch and Cyclic pitch.
- i) Leading edge slat and leading edge flap.
- j) Subsonic flight and supersonic flight.

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Total No. of Questions : 09

Roll No.

Time: 3 Hrs.

each.

1.

Total No. of Pages : 02

B.Sc (Honours) (Aircraft Maintenance) (2018 Batch) (Sem.-1) AERODYNAMICS Subject Code : BSCARM-101-18

Paper ID : [75632]

SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks

Max. Marks: 60

 (10×2)



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SECTION-B

Q2	Define and explain the significance of International Standard Atmosphere.	(5)
Q3	Explain flight envelope and structural limitations with the help of labelled diagram.	(5)
Q4	Explain the function of primary control surfaces with the help of neat diagram.	(5)
Q5	Explain the factors affecting airflow in engine intakes of high speed aircraft.	(5)
Q6	Explain the difference between rigid and articulated rotor with the help of sketches.	(5)

SECTION-C

- Q7 What do you understand by pitot static system? Explain the working principles of Altimeter and Airspeed Indicator with the help of neat diagrams. (2,8)
- Q8 Write notes on the following :
 - a) Trim tabs
 - b) Area Rule
 - c) Aerodynamic Balance
- Q9 Distinguish between fixed wing and rotary wing aircraft. Explain the collective and cycle control of a rotary wing aircraft. Explain the purpose of tail rotor. (3,5,2)

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(4,3,3)