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MODULE – 08 (AUGUST 2017) Basic Aerodynamics

HANDWRITTEN SET 02

| | Module 8 | ريسيس |
|----------------|--|--------------------|
| سنحر | Basic Acrody Openics | |
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| | Pozi ble | THERE ALL PLICATE |
| | O) VIILOSIH b) PRIJUK | () 200011 |
| | | D. Kersid |
| _03/ | Mark the correct statement about | t density. |
| | | |
| | C) Density = Moss x volume | |
| | 2) Dorsily = Moss x volume | |
| | d) Density - Area x Hoss | 9. |
| | | |
| -03) | The aeroplane may touch to lest | or right along the |
| - · | THE COURT OF THE PROPERTY OF T | الط مع |
| | Sideslipping | |
| | 5kidding | |
| ! | S Both to and (b) | |
| ر. درم | 2 | |
| | Point at which laminar bounder | y layer trong into |
| | THEOLIENT IS | <u> </u> |
| | o) Iransillan puni | |
| | 5 Separation point | - |
| | Critical point | |
| | Valority or small of son forel | |
| _=ジ | Velocity of sound at sea level is | |
| | b) 580 m/s | <u>·</u> |
| _ | c) 650 MLS | |
| | | |
| -2 | The love of lower abmosphere | Shee demonstra |
| | The loyer of lower almosphere . | TO THE TOTAL |
| ──# | derrate rapidly | |
| L | | osphere |
| _ | - 6) 24 Mary - 6) 130 | sphio |

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| | W. Tana |
|---|----------------------|
| of the Dring which valvey invest | podsing upon |
| 2) Wake drag - | |
| 9) Produced drag | |
| og Ailean gives | |
| | |
| nose of aircoaff will, a) Drop b) Rise | |
| 19) The lows of mechanism that i | |
| air o) 13t and 2 nd low b) 1 ^{3t} and 3 nd low | |
| c) 13th 2nd and 3th 100 | |
| flight sper unit weight of fue B) Endurance | dir, in shought 4 lu |
| e) 2 dentie an monde | |

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| 12) Tall plane contribute |
|--|
| 12) [Tall plane contribution in longitudinal stability- |
| |
| b) Area and distance from CP |
| 6) Diet ratio and distance from co |
| Distance from con |
| |
| 13) Point on wings surface from where boundary layor |
| 13m/13 |
| 9) <u>Leading</u> edge |
| b) Trailing edge |
| D Transition Point |
| |
| 14) Induced drag vicues |
| DINITED TO HE SOUND ON TO CONTROL |
| b) irvisely with airspiral |
| Edirully with square of airspara |
| |
| 15) Mails the consult statement |
| a) Contra extensión en desde en electrica |
| o) (entring pressure is point on chard as is "noted |
| pom where several force acts |
| b) Contre of pourus is point method of wings |
| then rother roll base only. |
| (centre of pressure is point on chord of wings |
| from where weight acts. |
| |
| 16) The most important consideration in determining |
| longitudinal stability is |
| o) Position of granty |
| - b) Area of honzental stabilizer |
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| - e1 | heatertens toop a |
| ର | low heats loop & high purambility suitable |
| | farment Mayor |
| N. | electre =11-2 |
| c. | Asmature |
| | NTO. |
| <u> </u> | Capaiturce Unit - Culam/vall coon |
| | |
| | Angulux speed & toaque cabulate power |
| _3 | Asoneture neturadire caces magnetus- |
| | Compaditive winding |
| | Two chemical combin - its called a |
| f .1 | Chimical powers |
| | |
| _ a5 | From factor -> Areans |
| | / |
| 26 | RMS value - 4 |
| Я | |