

End Semester Examination, Dec. 2021

B. Tech. – Third Semester

BASICS OF AERONAUTICAL ENGINEERING (BAE-DS-301)

Time: 3 hrs.

Max Marks: 100

No. of pages: 1

Note: Attempt FIVE questions in all; Q.1 is compulsory. Attempt any TWO questions from PART-A and TWO questions from PART-B. Marks are indicated against each question.

- Q.1 Answer the following parts briefly:
- a) Differentiate Petrol cycle with Diesel cycle. [CO2][L4]
 - b) List out the components of instruments landing system. [CO5][L2]
 - c) Define AOA, chord, camber and CP. [CO1][L1]
 - d) Differentiate gyroplane and glider. [CO1][L3]
 - e) Establish reasons for the following: [CO3][L4]
 - i) Staging of rockets.
 - ii) Rocket engines do not use Jet aviation fuel. 4x5

PART-A

- Q.2 a) Classify various types of flight vehicles based on the operation domain, source of lifting force and the operator for flying. Discuss prominent features of each type. [CO1][L4]14
- b) What are slat and slot? How do they help in increasing lift? [CO1][L3]6
- Q.3 a) Explain various types of air speeds for aircraft used by the pilot for flying operations. Enumerate the working principle of air speed measurement in aircraft. How can we measure ground speed? [CO2][L2]12
- b) The Boeing 777 was to land at Netaji Subhash International Airport, Kolkata at 1700 hours IST covering a ground distance of 2200 Km during cruise at a true air speed of 1025 Km/hr. Due to change in wind from tail wind of 75 Km/hr, the pilot revised the landing time to 1712 hours. Calculate the change in wind speed and direction. [CO2][L4]8
- Q.4 a) Classify various types of piston engines used in aircraft. [CO3][L2]5
- b) Draw a labeled schematic sketch of a typical solid propellant motor and indicate the main components. [CO3][L1]10
- c) Compare and contrast solid propellant rockets with liquid propellant rockets. [CO3][L4]5

PART-B

- Q.5 a) What are composites? Explain various advantages of composite materials for use in aviation sector. [CO4][L2]6
- b) Plot Vn diagram for the following acrobatic ac:
Mass= 2300 kg, Wing Area= 19.33 m²,
Max Lift Coefficients = +2 and -1.2
Cruise Speed = 310 KEAS [CO4][L5]14
- Q.6 a) With suitable diagrams, differentiate functioning of Manual, power assisted and powered flying control systems. [CO6][L5]12
- b) Compare and contrast Air frame and Engine Fuel system with the help of sketch highlighting the interface between the two. [CO6][L5]8
- Q.7 a) Distinguish between engine instruments and navigation instruments. [CO5][L3]5
- b) List out the various gyroscopic instruments used in the aircraft. [CO5][L1]5
- c) What are the frequency band widths for operation of ADF, VOR, ILS and GPS? Write briefly the purpose served by these navigation aids. [CO5][L2]10

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