Roll No……..….. **Total No. of Printed Pages: 1**

Total No. of Questions: [09]

B. Tech (Aerospace Engineering) (Semester – 7th)
AVIONICS
Subject Code: BANES1-701
Paper ID: [18110239]

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(2 marks each)**

Q1. Attempt the following:

a) Name two avionic instruments.
b) What is ARINC?
c) What is sensed by air data sensor?
d) What is the role of position gyro?
e) What is CVT?
f) What is the use of HDD?
g) What is the significance of TACAS?
h) What is the difference between ILS and TLS?
i) Describe briefly TLS?
j) What is an FMS?

Section – B **(5 marks each)**

Q2. Explain the use of ARINC-629
Q3. Explain the difference between non avionic and Avionic systems.
Q4. Explain the function of FDR.
Q5. Describe the working of Multi-Function display.
Q6. Explain inertial navigation process.

Section – C **(10 marks each)**

Q7. Describe various navigation systems, explain one in detail.
Q8. Explain the VHF, HF and locator transmitter.
Q9. Name the various avionic subsystems. Describe DVI and HOTAS.