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Total No. of Printed Pages: 1

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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.