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Code: 9A21602

B.Tech III Year II Semester (R09) Supplementary Examinations May/June 2017 **AVIONICS**

(Aeronautical Engineering)

Time: 3 hours Max. Marks: 70

Answer any FIVE questions All questions carry equal marks

- Explain in detail the processes involved in the development of a system for typical civil avionics. 1
- 2 Explain the components of display suite of EFIS (electronic flight instrumentation system) and discuss in detail about dumb display architecture.
- Explain the principle of operation of SAT com (satellite communication). 3
- 4 Explain in detail the instrumentation part of VOR receiver with a neat sketch.
- 5 (a) Illustrate the subsystems of GPS (or) NAVSTAR receivers and explain in detail.
 - (b) Explain why GPS is integrated with INS.
- Explain the working principle of accelerometers with a neat sketch. 6
- Explain about ADS and different classes of ADS B installation. 7
- What is FMS? Explain the typical flight management system with a block diagram and discuss its 8 benefits briefly.