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VII SEMESTER B.TECH. (AERONAUTICAL ENGINEERING) END SEMESTER EXAMINATIONS, DEC/JAN 2020

SUBJECT: AVIONICS AND NAVIGATION SYSTEMS [AAE 4103]

REVISED CREDIT SYSTEM (XX/XX/2020)

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- Missing data may be suitable assumed.

1A.	What is the importance of Head Up Display?	(02)
1B.	What are the advantages of Digitally Generated Moving Color Map Displays?	(03)
1C.	Explain Electronic Flight Instrument System in detail.	(05)
2A.	How a vertical speed indicator works?	(02)
2B.	Explain space segment of GPS.	(03)
2C.	Explain VOR. What are the various equipment used?	(05)
3A.	What is the function of stormscope in an aircraft?	(02)
3B.	What is the working principle of Hall effect accelerometer?	(03)
3C.	Explain aircraft batteries in detail.	(05)
4A.	How DGPS is used for aircraft landing?	(02)
4B.	Explain software development process with proper diagrams.	(03)
4C.	Explain Instrument Landing System in detail.	(05)
5A.	What are the various network topologies?	(02)
5B.	Briefly explain various digital data bus systems.	(03)
5C.	Explain MIL-STD 1553 data bus in detail with all necessary diagrams.	(05)

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