

Name:
Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2021

Programme Name: B.Tech ASE+AVE
Course Name : Digital Avionics
Course Code : AVEG 4002
Nos. of page(s) : 02

Semester : VII
Time : 03 hrs
Max. Marks : 100

SECTION A
[4x5=20]

S. No.		Marks	CO
Q 1	What are the major Avionics Systems used in the Aircraft technology?	4	CO1
Q 2	Discuss the various phases of the flight starts with the take off to landing.	4	CO2
Q 3	What is ARINC 429 series? Describe in detail	4	CO 3
Q 4	Describe the databases and MIL STD for military aircraft operations	4	CO 4
Q 5	What are the needs for Military aircrafts?	4	CO1

SECTION B
[10x4=40]

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Q 6	Discuss the architecture of ARINC 629. What are the various advantages?	10	CO2
Q 7	Discuss the various specifications and the overview of the MILSTD. Describe BC to RT and RT to BC command network in detail.	10	CO 3
Q 8	What are the various features involved in Integrated Avionics System Architecture? Elaborate each of them.	10	CO 3
Q 9	What are the various navigation systems used in aircraft? How the navigation plays important role in guiding the vehicles?	10	CO 2

SECTION-C
[2x20=40]

Q 10. How Engine Control Management team works? Describe the Environmental control system in detail.
CO 4 20

Q 11. Discuss all different types of displays used in the aircraft cockpit. Draw the schematic diagram also. 20
CO 3