

UNIT - IV**18**

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| 4 a. With neat block diagrams, explain open loop and closed loop control system. | 9 | L2 | CO4 | PO1,2 |
| b. Explain the operating principle of Digital engine control system. | 9 | L3 | CO4 | PO2 |
| c. Explain engine cranking and engine warm-up control. | 9 | L2 | CO4 | PO2 |

UNIT - V**18**

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| 5 a. Briefly explain the purpose and application of embedded systems in automobile. | 9 | L2 | CO5 | PO1,2 |
| b. Explain the following: | | | | |
| i) GLS | 9 | L3 | CO5 | PO2 |
| ii) GPSS | | | | |
| iii) GMS | | | | |
| c. Explain the multiprocessor communication using CAN bus. | 9 | L2 | CO5 | PO2 |

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