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B.Tech. - VIEP - ELECTRICAL ENGINEERING

(BTELVI)

Term-End Examination, 2019

BIEEE-014 : COMPUTER CONTROL PROCESS

Time : 3 Hours]   **[Maximum Marks : 70**

Note : Attempt **any seven** questions. Each questions carries equal marks.

1. Explain the Feed Forward Control System for any application along with its merits and demerits.   [10]

2. What are the effects when the decouplers are introduced in the Control System ? Explain.   [10]

3. Describe the effects of interaction, when there are a number of control loops, which interact with each other.   [10]

4. With the help of a suitable example, explain Batch Process Control.   [10]

5. (a) Define Singular Values and Singular Vectors.[5]

    (b) Describe the modelling of the Robust Control.[5]

6. Write, clearly about the Kernel I/O Subsystem. [10]

7. What are the different tools present in designing a real time control system and mention any one technique.[10]

8. With the help of a block diagram, explain the 'Man Machine Interface'. [10]

9. Write short notes on **any two** of the following : [2×5=10]

   (a) Real time Processing System

   (b) Programmable Logic Controller

   (c) MIMO system

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