No. of Printed Pages : 2

B.Tech. – VIEP – ELECTRICAL ENGINEERING (BTELVI)

Term-End Examination

20763

June, 2018

BIEEE-014 : COMPUTER CONTROL PROCESS

Time : 3 hours

Maximum Marks: 70

- **Note :** Attempt any **seven** questions. Each question carries equal marks. Use of scientific calculator is permitted.
- 1. Draw the block diagram of a cascade controlsystem. Also explain each block.10
- 2. What are the effects of adding feedback to a control system? How does it influence the overall economics? 10
- 3. Explain feed-forward control and draw its block diagram for any application. 10
- **4.** (a) Define H_{m} method used in control theory. 5
 - (b) Which is the condition for a control system to be stable and robust ?

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5.	With a suitable application, explain the working of a Ratio Control.		10
6.	Draw the block diagram of a programmable logic controller and explain the function of each block.		10
7.	What are the design techniques of a real-time system?		10
8.	What are control network protocols ? Explain them.		10
9.	Write short notes on any two of the following: $2 \times 5 =$!0
	(a)	Ladder Program vs Sequential Function Chart	
	(b)	Continuous Process Control vs Batch Process Control	
	(c)	Distributed Control System	

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