Code No: 125AY

R15

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, November/December - 2018 VIRTUAL INSTRUMENTATION

(Electronics and Instrumentation Engineering)

Softenant's

33

Max. Marks: 75

The guestion paper contains two parts A and B. Note:

Part A compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Limits. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Minutes)

What is virtual instrumentation Give some examples for virtual instruments. II.(a) [2] Write various programming la frances used in virtual instrumentation. [3] (b) Write about structure of an arrev in VI. [2] (C) Explain about local and global variables (seed in VI with examples. [3] dD. What is DMA? Explain its applications and advantages. 40.0 [2] Write the functions of multiplexers S/H and counter/timers in a DAQ system. 10 3 Write various types of signals in RS2320 serial interface standard. 92.1 E21 Mention the PCI standard and its applications. this is [3] Write about distributed I/O modules in VI toolsets. 60 [2] Write the applications of VI in motion control and as advantages.

PART - B

(50 Miarries)

[3]

- Explain in detail some of the recent instrument technologies used for instrumentation. 2 83
 - (b) Discuss various programming techniques used in development Instrumentation and mention their ments and dements.

- Discuss the graphical dataflow techniques and conventional data flow technique 3.40 in virtual instrumentation.
 - Discuss the advantages and applications of Virtual Instrumentation with shital b) examples.
- Write a VI to calculate sum of squares of N natural numbers using FOR and WHILE 4.00
 - State the use of a sub VI from a case structure and the case structure itself in VI. [5+5] (b)
- OR 5.a) Explain the arrays, graphs and case structures used in VI programming with next diagrams.
 - b) Write about instrument drivers used in VI programming with examples. 15 + 51

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Judd E. Hollander

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