



DHH-003-015402

Seat No. _____

M. Sc. (Sem. IV) (Electronics) (CBCS) Examination

May / June – 2015

Paper - 14 : Labview

Faculty Code : 003

Subject Code : 015402

Time : Hours]

[Total Marks : 70

- Instructions :** (1) All questions carry equal marks
(2) Figures on the right hand side indicate marks.

1 Select Correct Answer from given multiple choice. [14]

01. What does the letters in LabVIEW mean?
(a) Laboratory View
(b) Laboratory Virtual Instrument Engineering Workbench
(c) Nothing - it is just a word
02. What is the purpose of a LLB-file?
(a) To make an application which can be run on any computer without having LabVIEW installed
(b) To save the VIs more quickly
(c) To store the VIs of an application as one single file, for easy distribution of the application
03. Which is the preferred method of exchanging data between different while-loops in a diagram?
(a) Using local variables
(b) Using global variables
(c) Draw a signal line across the borders of the loops in the usual way
04. What is a cluster?
(a) A multi-variable containing different variables having various data types
(b) A multi-variable containing different variables having equal data types
(c) Just a displaying effect (to make a number of controls or indicators) appear as one unit
05. What is Wires?
(a) Wires handles the Data Flow in LabVIEW
(b) Electric wires to get power to your code
(c) You use wires to short circuit your code

06. What is a Formula Node?
 (a) A Calculator
 (b) A Node that is connected to a mathematical expression
 (c) A Node where you can write mathematical formulas and expressions similar to C code
07. Which operations can not be used in Formula Node?
 (a) Linear algebraic operations
 (b) If-statements
 (c) Switch-structures

2 Answer the following: (Any Two) [14]

1. Give advantages and dis-advantages of LabVIEW.
2. Explain contrast of 'Unbundle' and 'Unbundle by name' in cluster.
3. Give the list of 'numeric conversion' functions.

3 Answer the following:

1. Explain Dataflow Programming with example. [05]
2. Write note on structure tunnel. [05]
3. Explain Auto Indexing [04]

OR

3 Answer the following:

1. What is Cluster? List any four cluster functions and explain them. [07]
2. Explain data 'Step Into', 'Step Over' and 'Step Out' . [07]

4 Answer the following: (Draw Block Diagram only) (Any Two) [14]

1. Draw a VI which simulate sine signal, cosine signal, addition of waveform and userfunction waveform as well as user have control of selecting desired wavefom
2. Draw a VI that converts °C into °F
3. Explain three file I/O funcations using one example.

[14]

5 Answer the following: (Draw Block Diagram only) (Any Two)

1. Build a VI to demonstrates the arithmetic and logical functions.
2. Build a VI to demonstrates how to create a new text file and read and plot data form newly created text file.
3. Build a VI to illustrates the different data types that can be wired to the Case Selector terminal of a Case Structure.