



NBV-003-015402 Seat No. _____

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

April / May - 2017

Labview : Paper - XIV

Faculty Code : 003

Subject Code : 015402

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

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

1 Answer the following : **14**

- (1) Compare text-based programming and graphical programming.
- (2) Why is LabVIEW a graphical programming language?
- (3) What is a Case Structure?
- (4) Explain function of clean up wire.
- (5) What are the three main component of a virtual instrument (VI)?
- (6) How many number of case can be used in case structure?
- (7) What is tunnel?

2 Answer the follwoing : (any two) **14**

- (1) Explain typical features and advantage of LabVIEW.
- (2) LabVIEW follows a data flow mode for running VIs. Explain with an example.
- (3) What are Express VIs and standard VIs?

3 Answer the follwoing : **14**

- (1) What is structure? List any three structure functions and explain them.
- (2) What isArray? List and four array functions and explain them.

OR

- 3** Answer the following : **14**
- (1) Define sub VI in LabVIEW.
 - (2) What is looping in LabVIEW? State the advantage of using loops.
- 4** Answer the following : (any two) **14**
- (1) Define an array in LabVIEW. Where might it be used?
 - (2) Define auto-indexing.
 - (3) Differentiate an array from a cluster.
- 5** Answer the following; (Draw Block Diagram only) (any two) **14**
- (1) Build a VI that creates two dimensional array of random number.
 - (2) Build a VI that converts °C into °F
 - (3) Build a VI to illustrate the different data types that can be wired to the Case Selector terminal of a Case Structure.
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