



PAP-003-027901

Seat No. _____

M. Sc. (Sem. IX) (ECI)(CBCS) Examination

October / November - 2018

Labview : An Introduction : Paper - 33

Faculty Code : 003

Subject Code : 027901

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

[Total Marks : 70

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

1 Answer the following : (any seven) **14**

- (1) What is Express VI ?
- (2) What is VI ? Why LabVIEW programs are called VI ?
- (3) What is a Case Structure ?
- (4) Explain function of clean up wire.
- (5) What can you use the MAX-program for ?
- (6) How many number of case can be used in case structure ?
- (7) What is tunnel ?
- (8) Which timing function (VI) is the best choice for timing control logic in applications that run for extended periods of time ?
- (9) What is connector pane ? Where is it used ?
- (10) Give function of these short cut keys.
 - (1) Ctrl + H
 - (2) Ctrl + B

- 2** Answer the following : (any two) **14**
- (1) Give advantages and disadvantages 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 : **14**
- (1) What is looping in LabVIEW ? State the advantages of using loops.
 - (2) What is a For Loop ? Under what circumstances are for loops used ?

OR

- 3** Answer the following : **14**
- (1) Describe the need for initializing shift registers.
 - (2) What are stacked shift registers ? When are they used ?

- 4** Answer the following : **14**
- (1) Write short note on Cluster order.
 - (2) Explain Case Structure with example.

- 5** Answer the following : (any two) **14**
- (Draw Block Diagram Only)
- (1) Build a VI that converts °C into °F
 - (2) Build a VI that creates two dimensional array of random number.
 - (3) Build a VI that computes slope of a line.
 - (4) Build a VI that gives average of last three thermometer reading.