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**W—401—2018**

**FACULTY OF SCIENCE**

**B.Sc. (Third Year) (Sixth Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2018**

**COMPUTER SCIENCE**

**Paper XV**

**(Unix Shell Programming)**

**(Friday, 7-12-2018)**

**Time : 10.00 a.m. to 12.00 noon**

*Time—2 Hours*

*Maximum Marks—40*

*N.B. :— (i) Attempt All questions.*

*(ii) Assume suitable data, if necessary.*

1. Attempt any *four* of the following : 8
  - (a) Explain different directories in Unix system.
  - (b) What is the purpose of I/O redirections in Unix ?
  - (c) Write a note on News command.
  - (d) Explain the purpose of Zap command in Unix.
  - (e) What is Build in function ?
  - (f) Explain the concept of functions and procedures.
2. Solve any *two* of the following : 8
  - (a) Explain the concept of low level I/O in Unix.
  - (b) Write a note on control flow in unix shell programming.
  - (c) Explain the purpose of Tbl and eqn preprocessors.
3. Solve any *two* of the following : 8
  - (a) Explain different filters in unix shell program.
  - (b) Write a detailed note on shell variables with example.
  - (c) What is loop ? Explain while loop with example.

P.T.O.

4. Solve any *one* of the following : 8
- (a) Write a shell program to print Fibonacci series upto N terms.
  - (b) Explain in detail signals and interrupts.
5. Write short notes on any *two* : 8
- (a) Get and Put
  - (b) File Access
  - (c) Conditional Expressions
  - (d) Grep Command.