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**R—348—2017**

**FACULTY OF SCIENCE**

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

**MAY/JUNE, 2017**

**COMPUTER SCIENCE**

**Paper XV**

**(Unix Shell Programming)**

**(Wednesday, 3-5-2017)**

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

*Time—2 Hours*

*Maximum Marks—40*

*N.B. :— (i) All questions are compulsory.*

*(ii) Figures to the right indicate full marks.*

*(iii) Assume suitable data if necessary.*

1. Attempt any *four* of the following : 8
  - (a) Explain hierarchical directory structure in Unix.
  - (b) Explain metacharacters in Unix.
  - (c) Define signal in Unix.
  - (d) Explain Awk command.
  - (e) Discuss equation preprocessor in Unix.
  - (f) Explain PWD command in Unix.
2. Attempt any *two* of the following : 8
  - (a) Explain features of Unix.
  - (b) Discuss I/O redirections in Unix.
  - (c) Explain news command in detail.
3. Attempt any *two* of the following : 8
  - (a) Write shell program to print largest of *two* numbers.
  - (b) Explain until loop in Unix with example.
  - (c) Explain chmod command in Unix.

P.T.O.

4. Attempt any *one* : 8
- (a) Write a detailed note on condition expressions in Unix.
  - (b) Explain with example zap and pick command.
5. Write short notes on (any *two*) : 8
- (a) Troff level
  - (b) Error recovery
  - (c) Unix system calls
  - (d) Redirections.