

(4)

- 7 (a) Describe CAT, CMP, CUT, FG commands of UNIX with example. 3½
- (b) In how many categories Operating Systems are divided? Explain in detail, also explain why Operating System is a resource manager? 4
- Unit-IV
- 8 (a) Explain the working of switch/ case statement with example. 4
- (b) Write a c-language program to find out greatest and smallest number in an array of 10 elements using one program. 3½
- 9 (a) What do you mean by Call by Value and Call by Reference? Write down a c-program to find out the sum of 10 natural numbers using Call by value and Call by Reference in two different programs. 4
- (b) What are Bitwise Operators use in c-language? Explain by giving suitable examples. 3½

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Roll. No. \_\_\_\_\_

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B.Sc. (Part-II) Examination, 2015

(Old Syllabus)

COMPUTER APPLICATION

First Paper

(UNIX Operating System & Structured Programming)

*Time Allowed : Three Hours ] [ Maximum Marks : 50*

Note : Answer five questions in all. Question No.1 is compulsory. Attempt one question from each of the four units.

1. Write short notes to the following:

2 × 10 = 20

- (i) What is Operating System? name at least five OS.
- (ii) Differentiate between pre test loop and post test loop in c-language.
- (iii) Write a c-program to reverse the digits of any given number :  
Example : 543 to 345

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- (iv) What is the difference between LOCATE and FIND commands in UNIX?
- (v) Explain the format for the COBOL program.
- (vi) Describe the Data division and Procedure division in COBOL.
- (vii) Which characters are used in the PICTURE CLAUSE to indicate editing?
- (viii) What is the difference between KILL and PKILL commands in UNIX?
- (ix) What do you mean by justified clause in COBOL?
- (x) Explain ternary operators used in c-language.

UNIT-I

- 2 (a) Write a COBOL program to calculate Simple Interest and Compound Interest. 4
- (b) Explain various important features of UNIX Operating System. 3½
- 3 (a) Describe the level structure of COBOL in detail. 4
- (b) Explain RENAME and REDEFINED clauses of COBOL in detail. 3½

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Unit-II

- 4. (a) Explain the following in detail : 4  
c-expression, Block, functions, Logical Operators and compound assignment operators.
- (b) Write a c-program to check whether the given string is palindrome or not. for Example :- NITIN 3½
- 5 (a) Explain atleast five text processing commands of UNIX by giving example. 4
- (b) Write down short note on UNIX layer Architecture. 3½

Unit-III

- 6 (a) What are user defined functions? Write a c-language program to calculate factorial of any given number using recursion. 4
- (b) What is flow chart? Explain various symbols used in flow chart, also draw flow chart to find out sum of digits of any given number. Example :  
543=5+4+3=12 3½

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P.T.O.