Question Paper

MANIPAL UNIVERSITY

SCHOOL OF INFORMATION SCIENCES
FIRST SEMESTER MASTER OF SCIENCE- M.Sc. (INFORMATION SCIENCE)
DEGREE EXAMINATION - NOVEMBER 2017
DATE : Friday, November 17, 2017
TIME : 10:00AM - 1:00PM
Linux and C programming [MIS 501]

Marks: 100   **Duration: 180 mins.**

A

Answer all the questions.

1)   A. Explain the following Unix commands with an example   (10)

       a. rm   b. $ #   c.

       tail   (2x3
       = 6)

       B. Explain break and continue keyword available in shell
       programming   4

2)   With a neat diagram explain C compilation model   (10)

3)   Explain any 2 conditional statements in C program with (10)
       an example each   (5+5)

4)   Explain any 2 looping statements in C program with an   (10)
       example each   (5+5)

5)   Define void pointer. Explain Malloc, Calloc and realloc   (10)
       function with an example

       (1+3+3+3)

6)   What are macros? Explain conditional and function like   (10)
       macros with an example

          (2+4+4)

7)   What are structures in C? How are they useful ? why do we (10)
       use typedef ? Define a header file to store N Employee
       details and perform the operations on them
       (2+2+2+4)

8)   Explain any 4 inbuilt string functions with an example   (10)
       each   (2.5 *4)

9)   Explain the following file handling function with an   (10)
        example   (5+5)

        a. fread()   b. fwrite()

10)   A. Write a program to generate fibonacci series   (10)

        B. Write a program to check whether given number is a
        palindrome   (5+5)

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