

Question Paper

Exam Date & Time: 22-Nov-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SCHOOL OF INFORMATION SCIENCES

FIRST SEMESTER MASTER OF SCIENCE - M.Sc. (INFORMATION SCIENCE)

Linux and C programming [MIS 501]

Marks: 100

Duration: 180 mins.

END SEMESTER DEGREE EXAMINATION NOVEMBER 2018

Answer all the questions.

- 1) Explain the following Unix commands with an example (10)
(2.5x4 = 10)
mkdir b. rm c.mv d. cp
- 2) With a neat diagram explain C compilation model (10)
- 3) Explain If condition and Switch in C program with an example each (10)
(5+5)
- 4) Explain While and For loop in C program with an example each. (10)
(5+5)
- 5) Define Pointer. Explain Malloc, Calloc and realloc function with an example (10)
(1+3+3+3)
- 6) What are macros? Explain Object like and function like macros with an example (10)
(2+4+4)
- 7) What are structures in C? How are they useful ? why do we use typedef ? Define a structure to plot N number of pixels with their RGB values. (10)
(2+2+2+4)
- 8) How are Unions different from Structures? Explain the memory allocation in Unions with an example. (10)
(3+7)
- 9) Explain the following file handling function with an example (10)
(2.5x4 = 10)
Fgets() b. fopen() c. fseek() d. fgetc()
- 10) Write a program to convert given binary number to decimal and vice versa using functions (10)
(5+5)

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