MANIPAL UNIVERSITY JAIPUR
SCHOOL OF COMPUTING AND IT
I Semester BCA Make-Up Examination (2018-19)
FUNDAMENTALS OF COMPUTER | CA 1101
(CLOSED BOOK)

Duration: 3 hours   **Max. Marks: 100**

Instructions:
- Answer any five full questions.
- Missing data if any may be assumed suitably.

Q1	a) Discuss the concept of Operating system. What are the various functions performed by an operating system?	[10]
	b) Differentiate between System Software and Application Software with one example for each.	[10]
Q2	a) Give three advantages of windows over DOS operating environment.	[10]
	b) What do you mean by computer network? What are its various types?	[10]
Q3	a) Explain Various Communication media in Computer networking?	[10]
	b) Explain various computer topologies in networking?	[10]
Q4	Write difference between: a) RAM and ROM b) Compiler and Interpreter	[10*2]
Q5	Give the DOS commands to perform the following operations: (i) Delete all the files from the subdirectory WS/DEPT in the drive B whose file names have a BAK extension. (ii) Copy all the files beginning with m and whose filename has a TXT extension from drive A to the \document directory on drive C. (iii) Prepare a disk in drive B so that it can be used to boot up the computer. (iv) Make a new directory NEWDIR under directory OLDDIR. Copy all files from directory OLDDIR to NEWDIR.	[5*4]
Q6	a) Assume you have the following jobs to execute with one processor, with the jobs arriving in the order listed here:	

Process	Time
P1	80
P2	20
P3	10
P4	20
P5	50

	A. Suppose a system uses FCFS scheduling. Create a Gantt chart illustrating the execution of these processes?	[6]
	B. What is the turnaround time for process p3?	[7]
	C. What is the average wait time for the processes?	[7]