

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2018

Course: Computer Fundamentals CSBC1001

Semester: I


Program: BCA

Time: 03 hrs.

Max. Marks: 100

Section A (attempt all questions)

1.	Draw a flowchart to swap two numbers without using a third variable.	[4]	CO1
2.	Differentiate between Compiler and Interpreter	[4]	CO1
3.	Define the software. List types of software with example.	[4]	CO1
4.	List different types of operating systems	[4]	CO3
5.	Convert the decimal number 151.75 to octal.	[4]	CO3
SECTION B			
6.	Subtract 38 from 12 using a) 1's complement b) 2's complement	[10]	CO4
7.	What is cache memory? What are different page replacement policies used in cache memory.	[10]	CO4
8.	What is pseudocode? How is it different from algorithm? Explain with example	[10]	CO2
9.	What is RTOS? Differentiate between Hard RTOS and Soft RTOS. OR What is an operating system? Explain basic functions of Operating System	[10]	CO2
SECTION C			
10.	a) Which command is used to list the files and directories stored in the current directory in UNIX. Also explain the information depicted in all the listed columns by the above command. b) Explain function of different parts of computer along with its block diagram.	[20]	CO5, CO1
11.	a) What is UNIX. Explain UNIX architecture with help of block diagram. [10] OR Write command used to create, edit, rename, delete a file, make a copy of the file, count number of words in the file and display contents of a file. b) What is low level language? Explain types of low level languages. [10] OR Define the software. List and explain the types of software. Give the two	[20]	CO5, CO3

	example of each		
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Section A (attempt all questions)			
1.	What is computer? Why it is known as data processor?	[4]	CO1
2.	Specify the order of operations used for evaluating formulas in excel.	[4]	CO1
3.	Define the software. List and explain the types of software. Give the two example of each.	[4]	CO1
4.	Convert $(65)_8$ to the following: a) BCD equivalent b) Decimal Number c) Binary Number d) Hexadecimal Number	[4]	CO3
5.	Convert the decimal number 151.75 to binary.	[4]	CO3
SECTION B			
6.	Explain 5 types of media through which data may be communicated.	[10]	CO4
7.	Explain 5 differences between multi programming and multitasking operating system give an example for each. OR Explain evolution of operating system.	[10]	CO4
8.	Define computer virus. How do they infect and spread in computer system? Explain any three categories of viruses based on their mode of existence. Give three example of computer virus.	[10]	CO2
9.	Differentiate the following: a) volatile and non-volatile memory b) magnetic disk and magnetic tap	[10]	CO2
SECTION C			
10.	a) Define the basic characteristic of following i/o devices: LCD monitor and Laser printer b) Explain function of different parts of computer along with its block diagram.	[20]	CO3
11.	a) What is UNIX. Explain UNIX architecture with help of block diagram. [10] b) Which command is used to list the files and directories stored in the current directory in UNIX. Also explain the information depicted in all the listed	[20]	CO5

	columns by the above command.		
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