

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2021

Course: Computer Fundamentals
Program: BCA
Course Code: CSBC 1001

Semester: I
Time : 03 hrs.
Max. Marks: 100

Instructions:

Section A: Short answer type questions. Attempt all the questions, each Question carries 4 Marks

Section B: Medium answer type questions. Attempt all the questions, each Question carries 10 Marks

Section C: Long answer type questions. Attempt all the questions, each Question carries 20 Marks

SECTION A

(5Qx 4M = 20 Marks)

S. No.		Marks	
Q 1	Differentiate between the Compiler and Interpreter.	4	CO1
Q2	Abbreviate the following a) BIOS b) PCI c) SMPS d) ALU	4	CO2
Q3	Give two examples for each of the following a) Optical Based Memory Storage b) Storage Devices c) Output Devices d) Input Devices	4	CO2
Q4	Write a short note on Machine language and Assembly language.	4	CO3
Q5	Identify the various Unix commands for the below given functions a) Change directories b) Copy the contents of file into file2 c) List all the files in a directory including dot files d) List files with status/detail information	4	CO4

SECTION B			
(4Qx 10M = 40 Marks)			
Q 6	Illustrate the block diagram to show the functional/basic organization of computer system.	10	CO1
Q 7	What is Software? Compare and contrast System Software and Application software with examples.	10	CO3
Q 8	Write an algorithm to find the factorial of a number entered by the user. OR Draw a flow chart to print the largest of three numbers.	10	CO1
Q 9	Define Operating system and discuss the various features, roles, and functions of operating system in detail.	10	CO3
SECTION-C			
(2Qx 20M= 40 Marks)			
Q10	a. What is firmware? Differentiate between DRAM and SRAM in detail. (10 Marks) b. Demonstrate the different types of buses in Computer. (10 Marks) OR Illustrate the classification of computer memory and discuss the types of memory based on technology.	20	CO2
Q11	a) Demonstrate the use of grep command with the various options in UNIX. (8 Marks) b) Construct UNIX commands to perform the following operations. (12 Marks) 1) Create a folder BCA in Desktop 2) Move inside BCA Folder 3) Create a folder AI inside BCA Folder 4) Move inside AI Folder 5) Move back to BCA folder 6) Check if the 2 folders are created 7) Create a file biodata inside AI Folder to store your profile. 8) Rename the biodata file to profile. 9) Copy the content of profile file into mydata file 10) Display all the documents inside AI folder.	20	CO4