Enrollment No: _____   Exam Seat No:_____

C. U. SHAH UNIVERSITY
Winter Examination-2022

Subject Name : Operating System

Subject Code : 4CS05BOS1 / 4CS05IOS1   **Branch: BCA / B.Sc.I.T.**

Semester: 5   **Date: 23/11/2022**   **Time: 02:30 To 05:30**   **Marks: 70**

Instructions:
  (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  (2) Instructions written on main answer book are strictly to be obeyed.
  (3) Draw neat diagrams and figures (if necessary) at right places.
  (4) Assume suitable data if needed.

Q-1   **Attempt the following questions:**   **(14)**
  a) What is the full-form of FCFS?
  b) The memory allocated from secondary storage is called_____.
  c) When the process is halt due to IO interruption is called _____.
  d) Bourn Shell was invented by _____.
  e) Which command is used for details of the user who executed the command?
  f) Storing the data in specific format on magnetic media is called_____.
  g) Which command changes the mode of file?
  h) GUI stands for_____.
  i) Write the command to copy bca5.txt to tybca folder in Unix.
  j) What is the full form of GREP?
  k) Which command is used to display the list of files and folders in UNIX?
  l) Which command is used to make the directory in Unix?
  m) Which command shows the current directory?
  n) Which scheduling algorithm automatically executes queued at quantum?

Attempt any four questions from Q-2 to Q-8

Q-2		Attempt all questions	(14)
	A	Explain Operating system with its types.	05
	B	Explain the functions of operating system with its System Program	05
	C	Explain System structure.	04

Q-3		Attempt all questions	(14)
	A	Explain Process State and Process Control Block	07
	B	Explain the types of scheduling algorithm with example.	07

Q-4		Attempt all questions	(14)
	A	Explain Deadlock characteristics with its methods of its handling.	07

	B	How can we detect, prevent and recover deadlock?	07
Q-5		Attempt all questions	(14)
	A	Explain Demand Paging with its performance	05
	B	Explain Page Replacement with its algorithm.	05
	C	Explain Paging and Segmentation	04
Q-6		Attempt all questions	(14)
	A	Explain File attributes with its operations.	05
	B	Explain File types	05
	C	How can we protect file from an unauthorized user?	04
Q-7		Attempt all questions	(14)
	A	Explain Unix Architecture	05
	B	Explain types of shell	05
	C	Explain ordinary file and directory files	04
Q-8		Attempt all questions	(14)
	A	Write a program to copy the text from one file to another	05
	B	Explain vi editor with its different input modes	05
	C	Explain cursor movement and cut, copy and paste command in vi	04