C.U.SHAH UNIVERSITY
Summer Examination-2019

Subject Name : Operating System

Subject Code : 4CS02OPR1   **Branch: M.Sc. C.A. & I.T. (Integrated)**

Semester : 2   **Date : 20/04/2019**   **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)	Write the latest configuration of a desktop computer.	
	b)	What is shell?	
	c)	What is Operating system?	
	d)	Write the full form of PCB.	
	e)	Define File.	
	f)	Which command is used to show login of all users in UNIX?	
	g)	List the types of Operating system.	
	h)	What is scheduling?	
	i)	What is Thread?	
	j)	Give the full form of RTO.	
	k)	What is Directory?	
	l)	Define Kernel.	
	m)	List different Windows operating systems.	
	n)	Write the full form of EDF.	

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

Q-2		**Attempt all questions**	**(14)**
	A	Explain the need of Operating system in detail.	07
	B	Explain process life cycle.	07

Q-3		**Attempt all questions**	**(14)**
	A	Explain any one scheduling algorithm with example.	07
	B	Write a note on UNIX architecture.	07

Q-4		**Attempt all questions**	**(14)**
	A	Explain Batch operating system.	07
	B	Explain multithreading model.	07

Q-5		**Attempt all questions**	**(14)**
	A	Describe computer system organization by indicating all components.	**07**
	B	Write different functions of Operating system.	**07**

Q-6		**Attempt all questions**	**(14)**
	A	Explain file sharing and protection.	**07**
	B	Explain UNIX standard streams.	**07**

Q-7		**Attempt all questions**	**(14)**
	A	What is IPC? Explain with example.	**07**
	B	Explain various file access modes.	**07**

Q-8		**Attempt all questions**	**(14)**
	A	Explain ls command with all options.	**07**
	B	Describe Real time operating system.	**07**