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Y-474-2019

FACULTY OF SCIENCE

B.Sc. (Second Year) (Third Semester) (Backlog) EXAMINATION NOVEMBER/DECEMBER, 2019

(CBCS Pattern)

COMPUTER SCIENCE

Paper-IV

(Operating System)

(MCQ + Theory)

(Saturday, 14-12-2019)

Time: 2.00 p.m. to 4.00 p.m.

Time— Two Hours

Maximum Marks—40

- N.B. := (i) Attempt All questions.
 - (ii) Assume suitable data, if necessary.

(MCQ)

1. Select the *correct* alternative :

10

- (i) What is operating system?
 - (a) Collection of programs that manages hardware resources.
 - (b) System service provider to the application programs
 - (c) Link to Interface the hardware and application program.
 - (d) All of the above
- (ii) To access the services of operating system the interface is provided by:
 - (a) System calls
- (b) API

(c) Library

(d) Assembly Instructions

P.T.O.

WT

(*d*)

page No.

(c)

process ID

WT		(3) Y—474—20	19
	(x)	Fork () system call is used to	
		(a) Create new process (b) Execute process	
		(c) Kill process (d) Change process state	
		(Theory)	
2.	(a)	Explain computer system organization.	5
	(<i>b</i>)	Explain memory management.	5
	(c)	Explain operating system operations.	5
	(d)	Explain virtual machines in detail.	5
3.	(a)	Explain operating system services in details.	5
	(<i>b</i>)	Explain Multithreading models.	5
	(c)	Explain virtual memory.	5
	(d)	Explain implementation of Access control.	5
4.	(a)	Explain Interprocess communication.	5
	(b)	Explain protection in operating system.	5
150 oc		Or	
	(c)	Explain contiguous memory allocation.	5
	(d)	Explain file sharing protections.	5

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