# COPYRIGHT RESERVED BCA(III) -- Ope. Sys. (302) Core - VI

## 2019

Time: 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from all the Sections as directed.

### Section - A

## (Compulsory)

- 1. Choose the appropriate answer from each of the following multiple choice questions:  $2 \times 10 = 20$ 
  - (a) Which of the following is not an operating system?
    - (i) Windows
- (ii) Linux
- (iii) Mac OS
- (iv) MS. Office

DY - 8/3

(Tum over)

	(D)		cess life cycle?		is not a state of				
		(i)	Ready	(ii)	Running				
	-	(iii)	Killed	(iv)	Waiting				
	(c) The interval from the time of submission of process to the time of completion is termed								
	n.l	as :		(ii)	Turn around time <				
	T		Response time						
	(d) The keeps the state information about the use of I/O components.								
	201	(i)	CPU		os ,				
		(iii)	Kernel	(iv)	Shell				
	(e) Which of the following file formal support in windows 7?								
		(i)	NTFS	(ii)	BSD				
		(iii)	EXT	(iv)	All of these				
	(f) Who is called a supervisor of computer activity?								
		(i)	Memory	(ii)	Operating system				
	1	(iii)	I/O Device	(iv)	Control Unit				
~~~	-8/3		(2		Contd.				

	(g) When a thread need to wait for an e will:									
		(i)	Block		(ii)	Execute				
	A C	(iii)	Terminate			Update				
	(h)	The swaps processes in an out of the memory.								
		(i) Memory management								
ri e	en e		CPU		ñ.					
		(iii)	CPU manage	er		ACTIVITY OF THE SECOND				
		(iv)	User	a of her	e* 15	13 Carlon 1				
	(i)	Each entry in a segment table has a:								
		(i)	Segment Ba	se	(ii)	Segment Peak				
in the		(iii)	Segment valu	1e	(iv)	None of these				
	(j)	Which mechanism is used by worm process?								
H		(i)	Trap door		(ii)	Fake Process				
		(iii)	Spawn Proce	288	(iv)	VAX Process				
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	Ans	swer	any <b>four</b> ques	stion	s of	the following:				
197	17.3		a migratine	1976.5		5×4 = 20				
2.	Differentiate between Multiprocessing and Multiprogramming.									
3.	What do you mean by Kernel?									
DY	-8/	3	(	3)		(Tum over)				

2.

3.

- 4. Describe the concept of virtual memory.
  - 5. What do you mean by deadlock?
- 6. Describe the working process of cache memory.
- 7. What do you mean by process synchronization?
- 8. Differentiate between ready state and a wait state.
- 9. Write short notes on fire wall.

#### Section - C

Answer any two questions of the following:

 $15 \times 2 = 30$ 

- 10. What do you mean by process management in operating system? Explain the various state of process management.
- 11. What do you mean by deadlock? Discuss the necessary condition of deadlock.
- 12. What do you mean by Scheduling? Disucss their types.
  - 13. Justify your answer "Operating System is a backbone of computer system". Also discuss the category of operating system.