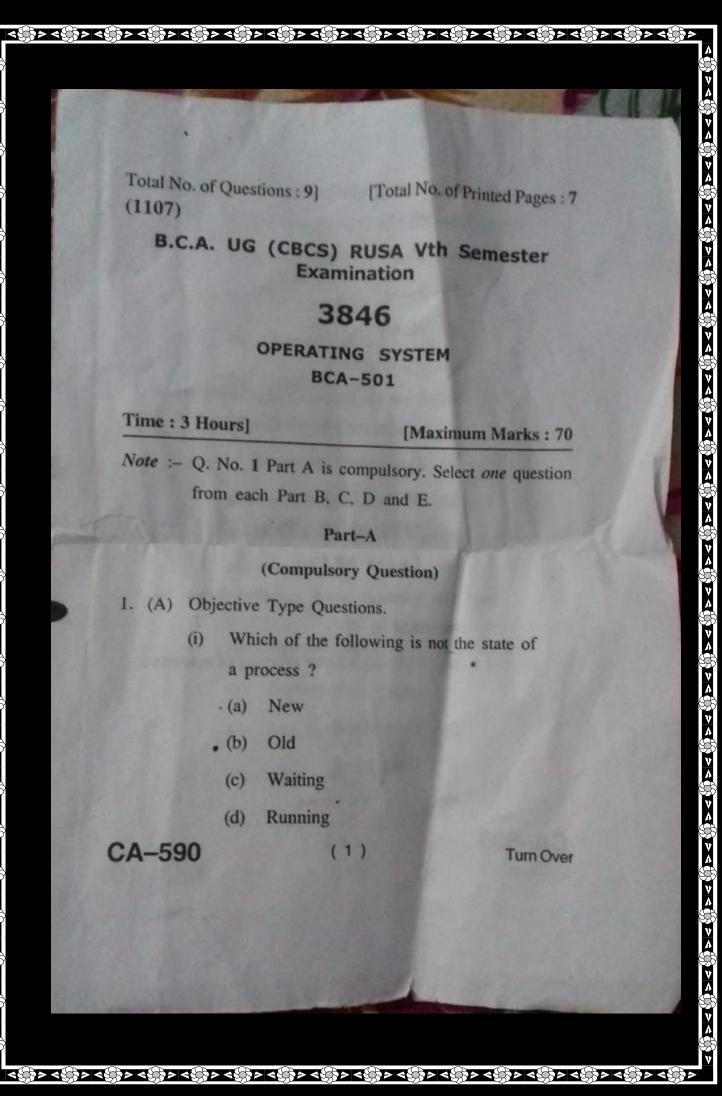


Previous Year (2017) Question Paper of **Operating System**



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With makiprogramming, manne 14 was productively. +6224 Time Space * (h) Money All of these Which of the following algorithms tends Guy to minimize the process flow time? First come First served (b) Shortest Job First Earliest Deadline First (c) Longest Job First circular wait condition can prevented by Defining a linear ordering of resource types Using thread (b) Using pipes All of the above (d) CA-590 (2)

Which one of the following is the address generated by CPU? • (a) Physical address (b) Absolute address Logical address .(c) (d) None of the above is the concept in which a process is copied into main memory from the secondary memory according to the requirement. Paging (a) Demand paging (b) Segmentation (c) (d) Swapping (vii) To create a file: Allocate the space in file system (a)

(3)

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Turn Over

CA-590

(6) Make an entry for new file in directory
• (c)	Both (a) and (b)
(d)	None of the above
(viii) CPU fetches the instruction from memory	
	ording to the value of:
* (a)	Program counter
(b)	Status register
(c)	Instruction register
(d)	Program status word
(ix) The	number of processes completed per
· unit	time is known as
(a)	Output
(b)	Throughput
(c)	Efficiency
(d)	Capacity
CA-590	(4)

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(x) Which module gives control of the CPU to the process selected by the short-term scheduler?

- •(a) Dispatcher
 - (b) Interrupt
 - (c) Scheduler
 - (d) None of these

 $1 \times 10 = 10$

- (B) Short Answer Type Questions:
 - (i) Explain the concept of simple monitor.
 - (ii) Recovery from deadlock.
 - (iii) Round robin algorithm.
 - (iv) Difference between physical and logical address.
 - (v) Discuss file naming and its attributes. 4×5=20

Part-B

(Unit-I)

 What is an operating system? Discuss in detail how the operating system can be classified into different categories.

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CA-590

(5)

Turn Over

3. What are the main function and use of an operating system? Explain in detail. 10 Part-C (Unit-II) (a) What is the function process control block? What is convoy effect? Write the main scenario (b) of it. Explain about deadlock avoidance and write Banker's Algorithm Part-D (Unit-III) 6. Discuss the concept of paging by giving suitable example. 7. Write short notes on the following: (a) Virtual Memory 10 Demand paging CA-590 (6)

