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**Printed Pages: 8** 

Degree (Part-I) (Vocational) Examination, 2020

(Honours)

**BCA** 

[ Paper : Second ]

[ PPU-D-I (V) H-BCA-2 ]

Time: Three Hours]

[Maximum Marks: 75

**Note:** Attempt **any five** questions in all. All the questions are of equal value. **Question No. 1** is **compulsory**.

- 1. Choose the correct answer of the following:
  - (i) What is the ready state of a process?
    - (a) when process is scheduled to run after some execution
    - (b) when process is unable to run until some task has been completed

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(1)

[P.T.O.]

(c)	when process is using the CPU
(d)	none of the mentioned
The adby th	ddress of the next instruction to be executed e current process is provided by the
(a)	CPU registers
(b)	Program counter
(c)	Process stack
(d)	Pipe
concu	rently and the outcome of the execution ds on the particular order in which the stakes place, is called:
(a)	dynamic condition
(b)	race condition
(c)	essential condition
(d)	critical condition

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(ii)

(iii)

(iv)		terval from the time of submiss	
	as	ss to the time of completion is	s termed
	(a)	waiting time	
	(b)	turnaround time	¥
	(c)	response time	
	(d)	throughput	727
(v)		phore is a/anto solve the problem.	e critical
	(a)	hardware for a system	
	(b)	special program for a system	
	(c)	integer variable	
	(d)	none of the mentioned	
(vi)		one of the following is the once algorithm?	leadlock
	(a)	Banker's algorithm	
	(b)	Round-robin algorithm	
	(c)	Elevator algorithm	26 96
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- (vii) Input: A="11/05/1983" Choose the right function to get Output: 198
  - (a) ?SUBSTR (A,7,2)
  - (b) ?STUFF (A,7,3)
  - (c) ?SUBSTR(A,8,3)
  - (d) ?SUBSTR(A,7,3)
- (viii) Decision Table is a
  - (a) Tabular representation of a program logic
  - (b) Symbolic representation of a program logic
  - (c) Graphical representation of a program logic
  - (d) All of the above
- (ix) The command to create a new database file based on two open database files is:
  - (a) SET RELATION
  - (b) UPDATE

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(4)

		(C)	JOIN
		(d)	None of the above
	(x)	The ??	?? Indicates :
		(a)	Print text to output screen
		(b)	Print text directly to printer
		(c)	Comment
		(d)	Logical Operation
2.	Write s	short no	tes on <b>any three</b> out of the following <b>four</b>
	terms/l	keyword	ls :
	(i)	Proces	s switching
	(ii)	Binary	semaphore
	(iii)	Deadlo	ck condition
·	(iv)	Externa	al fragmentation
3.	What is	s Proce	ess Control Block (PCB) ? Describe the
	various	attribut	tes of a PCB.
4.	•		ssor system has three resource types X,
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are five units of each resource type. Consider the following Allocation and Request (Claim-Allocation) matrixes. Identify the given system state is safe or not. Show the state of the system after each process completion. Which of these processes will finish last?

Allocation			
	X	Y	Z
P0	1	2	1
P1	2	0	1
P2	2	2	1

Request			
	X	Y	Z
P0	1	0	3
P1	0	1	2
P2	1	2	0

- 5. Consider a main memory with five page frames and the following sequence of page reference: 3, 8, 2, 3, 9, 1, 6, 3, 8, 9, 3, 6, 2, 1, 3. Calculate the number of page faults by using First, In, First Out (FIFO) page replacement policy.
- 6. What is File Allocation method? Describe the various types of File Allocation methods.
- What are the main functions of DBMS and how will you differentiate it from File Management System?
- Describe briefly the various types of fields supported in FoxPro.

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9. Describe the following data displaying and monitoring commands with syntax and example:

- (i) Display
- (ii) List
- (iii) Browse
- (iv) Recall
- 10. Write a procedure in FoxPro to reverse the first and last names of employee, which is separated by a space.

  Assume the field name to be NAME in a database called EMPLOYEE.

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