http://www.elearninginfo.in

2019/TDC/ODD/SEM/ BCACC-302T/149

2. Answer any one of the (allowing questione: 10 TDC (CBCS) Odd Semester Exam., 2019 tipte associu

COMPUTER APPLICATION

(3rd Semester)

Course No. : BCACC-302T

(Operating System) 3. ARSTON ORY SURAN THE WITCHIER QUESTIONS OF

> Full Marks: 70 Pass Marks: 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

UNIT-I

ananagement.

4. Answer any one of the wholes a guestions : Answer any two of the following questions : 1. serve two services and state

- What is an Operating System? Give the (a) view of an OS, a resource manager.
- What is kernel? State two differences (b) between batch operating system and multiprogramming operating system.
- What are process creation and process (c)termination?

20J/1181

 $2 \times 2 = 4$

(Turn Over)

2×2=4

- **2.** Answer any one of the following questions :
 - (a) Define process. With a neat diagram, explain the work of process state transition diagram. Define PCB.
 - (b) Discuss the storage structure of a computer system.

VOLISH NO BLACC-2021

UNIT—II

3. Answer any *two* of the following questions :

2×2=4

10

- (a) Define a thread. How is it differ from a process?
- (b) State two concepts of scheduling.
- (c) Define the concept of process management.
- 4. Answer any one of the following questions : 10
- (a) State two differences between preemptive and non-preemptive scheduling. Explain the objectives of scheduling.

(b) With an example, discuss briefly—

(i) FIFO Scheduling Algorithm;

attoot (ii) RR Scheduling Algorithm: 134 (i

20J/1181

http://www.elearninginfo.in

(3)

- bl- Arehousing anive Unit-III Shortsbenk .8
 - 5. Define any two concepts of the following :
 - (a) Synchronization
 - (b) Concurrent processes
 - (c) Critical section
 - on Explosion the following variable don-
 - 6. Answer any one of the following questions : 10
 - (a) Define the concept of deadlock. State deadlock conditions. Discuss briefly the methods for handling deadlocks.
 - (b) With an example, discuss briefly the Banker's algorithm for multiple resources.

 $9_{\rm c}$ Answer any nuclei the following questions : VI-TINU

7. Answer any *two* of the following questions : $2 \times 2 = 4$

- some common life attributes in OS
 - (a) What is the difference between a physical address and a virtual address?
 - (b) Define the concept of paging.

(c) Define the concept of segmentation.

20J/1181

(Turn Over)

(Continued) 20.

(84)

http://www.elearninginfo.in (5)

10

- 8. Answer any one of the following questions :
 - (a) Explain the following various contiguous memory allocations :
 - (i) Single partition proceeder (?)
 - (ii) Multiple partitions
 - (iii) Partition selection algorithms
 - (b) Explain the following various noncontiguous memory allocations :
 - (i) Paging
 - (ii) Segmentation and Sollarsh
 - (iii) Segmentation with paging
 - u Wili an ecompte, dialast coolisanker's V<mark>-TINU</mark> to ^{to}
- **9.** Answer any *two* of the following questions : $2 \times 2 = 4$
 - (a) Define the basic concept of files. State some common file attributes in OS (Operating System).
 - (b) Differentiate between Sequential access and Direct access.
 - (c) State two necessities of storing data on secondary storage devices.

20J/1181

(Continued) 20J—120/1181

10. Answer any *one* of the following questions : 10

- (a) Define directory structure. Explain in brief various file operations.
- (b) Discuss in brief various mechanisms of authentication for internal access authorization.

2019/TDC/ODD/SEM/ BCACC-302T/149