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PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BVoc DEGREE EXAMINATION DECEMBER 2022

(First Semester)

Branch - NETWORKING AND MOBILE APPLICATION

OPERATING SYSTEM CONCEPTS	v v
	Maximum: 50 Marks
Time: Three Hours SECTION-A (5 Marks)	
Answer ALL questions	
ALL questions carry EQUAL marks	$(5 \times 1 = 5)$
1. A Process Control Block (PCB) does not contain which of the fo	llowing:
i) Code (II)Stack	
(iii) Bootstrap program (iv) Data	
A series and	
2. The Banker's algorithm is used i) To avoid deadlock (ii) To detect of the control of the cont	leadlock
(iii) To prevent deadlock (iv) To solve d	leadlock
	nory from the secondary
3 is the concept in which a process is copied into main men memory according to the requirement.	act in the second secon
i) Paging (II) Demaid p	
(iii) Segmentation (iv) Swapping	Sangara and American
4. Which of the following is/are the technique(s) for performing I/(ii) Interrupt (iii) Interrupt (iii) Interrupt (iii) Interrupt (iiii) Interrupt (iiii) Interrupt (iiii) Interrupt (iiii) Interrupt (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	O management function.
(i) Duo grammed (/()	****
(ii) Direct Memory Access (iv) All of the	above
5. File attributes consist of: (ii) Type	
i)Name (iii)Identifier (iv) Name, Type	ype and Identifier
SECTION - B (15 Marks)	
Answer ALL Questions	ks (5 x 3 = 15)
ALL Questions Carry EQUAL Mar	KS (JAJ 19)
6 a. Describe the objectives of Operating System.	
OR Control Plack	
b. Outline the attributes of Process Control Block.	•
7 a. Show the principles of Deadlock.	
OR b. State the features of Concurrency Control.	
8 a. Summarize the types of Memory Partitioning technique	S.
8 a. Summarize the types of McHory Lattitoring Con-	
b. Classify Static and Dynamic Memory Allocation.	
9 a. Analyze the I/O Devices.	
\mathbf{OR}	
b. Prepare and write the organization of I/O Function.	
10 a. State about the File Directories.	
\mathbf{OR}	
b. How is the file be shared?	

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SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a. Analyze the Evolution of Operating System.

OR

- b. Discuss the Process Description and Control.
- 12 a. Enumerate the Deadlock Prevention Strategies.

OR

- b. Examine the Deadlock Avoidance algorithm.
- 13 a. Summarize the Memory Management Requirements.

OR

- b. Highlight the Paging technique and its implementation.
- 14 a. Examine the I/O Buffering technique.

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- b. Elucidate the SCAN Disk Scheduling algorithm.
- 15 a. Classify the different File Organization methods.

OR

b. Discuss the Secondary Storage Management.

END