# PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

### **BVoc DEGREE EXAMINATION MAY 2024**

(First Semester)

## Branch - NETWORKING & MOBILE APPLICATION

#### **OPERATING SYSTEM CONCEPTS**

Time: Three Hours		ree Hours	Maximum: 50 Marks
		Ans	Swer ALL questions ons carry EQUAL marks (5 x 1 = 5)
1.	(i)	provides a variouggers, to assist the progra Operating System	riety of facilities and services, such as editors and
2.	In (		ne process may use a resource at a time
3.	A u asso (i)		o a number of segments.  (ii) Paging
4.	(1)	OS is the time reconstruction in the time reconstruction of the time reconstruction is the time reconstruction.	quired to move the disk arm to the required track.  (ii) Seek time  (iv) Rotational Delay
5.	(i)	The Sequential File Pile	the same length, consisting of the same number of lar order  (ii) Indexed sequential file  (iv) Indexed file  ION - B (15 Marks)
		Ansv	ver ALL Questions ns Carry EQUAL Marks (5 x 3 = 15)
6	a b	What is A Process? Exp	olain in detail. OR
7	a b	Explain in detail about Deadlock Prevention.  OR  State in detail about Deadlock Detection algorithm.	
8	a	Describe in detail about	
	b	Explain in detail about I	OR Fixed Partitioning in Memory Management.
)	a	Narrate in detail about D	Firect Memory Access (DMA) in I/O. OR
	b	Describe in detail about	
0	a	Explain in detail about B	OR
	b	Describe in detail about I	File Sharing in OS

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#### SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks  $(5 \times 6 = 30)$ 

Discuss in detail about operating system Objectives and Functions. 11 Enumerate in detail about Five-State Process Model. b Summarize in detail about Deadlock Avoidance. 12 Discuss in detail about the Principles of Deadlock. b Summarize in detail about The Memory Management Requirements. 13 Discuss in detail about Paging in Memory Management. b Discuss in detail about the I/O Buffering. 14 Outline in detail about RAID. b Discuss in detail about File Organization and Access. 15 Elucidate in detail about the Secondary Storage Management in File b Management.

Z-Z-Z END