NWN-8813

KNT/KW/16/5243

(Contd.)

Bachelor of Computer Application (B.C.A.) Semester—I (C.B.S.) Examination OPERATING SYSTEMS

Paper—V

Time: Three Hours] [Maximum Marks: 50 **N.B.**:— (1) All questions are compulsory and carry equal marks. WWW.HIRINIORINE.COM (2) Draw neat and well labelled diagrams wherever necessary. **EITHER** (a) Explain the structure of Operating System. 5 1. (b) What is Process? Explain different process states. 5 OR (c) Explain: **Concurrent Process** (ii) Multithreading. 5 (d) Explain FCFS (First Come First Served) CPU Scheduling algorithm with example. 5 **EITHER** Deterministic modelling Nine colff

Queuing analysis 2. (a) Explain: (ii) Queuing analysis. 5 (b) What is Resource allocation graph? Explain. 5 OR (c) What is deadlock? Explain the conditions for deadlock. 5 (d) Explain the methods for recovery from deadlock. 5 **EITHER** 3. (a) Explain: (i) Logical Vs Physical address space (ii) Internal Vs External fragmentation. 5 (b) Explain the different memory management requirements. 5

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	(c)	Explain single partition allocation mechanism with example.	5
	(d)	Explain the concept of paging.	5
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4.	(a)	Explain I/O buffering mechanism.	5
	(b)	Explain Disk Cache.	5
	OR		
	(c)	Explain cryptography in detail. Explain the concept of file directories. Empt all: Explain different types of schedulers. Explain Dead lock detection. Explain dynamic linking.	5
	(d)	Explain the concept of file directories.	5
5.	Atte	empt all:	
	(a)	Explain different types of schedulers.	21/2
	(b)	Explain Dead lock detection.	21/2
	(c)	Explain dynamic linking.	21/2
	(d)	Explain Record blocking.	21/2

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