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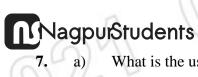




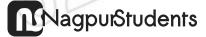
B.E. (Computer Science & Engineering) Seventh Semester (C.B.S.)

Elective - II : Mainframe Technologies

NRJ/KW/17/4636 P. Pages: 2 Time: Three Hours Max. Marks: 80 Notes: 1. All questions carry marks as indicated. 2. Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4. 3. 4. Solve Question 5 OR Questions No. 6. 5. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. 6. Solve Question 11 OR Questions No. 12. 7. Assume suitable data whenever necessary. 8. Explain the basic architecture of IBM Mainframe system. 7 a) Explain the concept of coupling facility with a neat sketch. b) OR Explain Operating systems on mainframes and differentiate between Batch processing and 7 2. a) Online processing. Explain the concept of Buffer management. b) 6 3. Write short notes on following:a) Paging. Swapping. ii) iii) Virtual storage. b) Explain the typical mainframe workloads. OR 4. List five jobs or responsibilities that are related to mainframe computing. 7 a) What is z-operating system, give its features in detail. b) 5. Explain the role of CICS in online transaction processing. a) b) State the advantages & disadvantages of VSAM. OR Explain the following statements of Job Control language. Job statement. EXEC statement. ii) Explain the VSAM data sets with example. b)



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7.	a)	What is the use of PPS. Explain in detail.	7
N)	b)	What is generation data group.	7
		OR	
8.	a)	Explain the evolution of COBOL language.	7
	b)	What are the different file processing techniques in COBOL. State each in detail.	7
9.	a)	What is DB ₂ ? Explain in detail.	7
	b)	Explain the relation between a cobol file handling program and JCL.	6
Л		OR	
10.	a)	Explain all the file handling verbs of cobol programming? i) OPEN ii) READ iii) WRITE iv) CLOSE	7
	b)	Explain the COBOL language fundamentals including divisions, sections & paragraphs.	6
11.	a)	Explain subroutines in cobol with example.	7
	b)	Write a short note on application development overview in DB ₂ .	6
		OR	
12.	a)	State the concepts of physical/logical records, file, file organization and access modes in cobol programming.	7
	b)	Explain the program execution methods of Mainframe Application Development guidelines.	6





The secret of getting ahead is getting started. ~ Mark Twain

