Con. 8267-13.

LJ-11519

C62502

10	T Y	~
13	Hours	1 5
12	Hours	"

[Total Marks: 100

N	.B. :	(1) Question No. 1 is Compulsory. (2) Solve any four questions from the remaining questions.	200 pag (
1.	(a) (b)	Draw and explain various instruction formats of SPARC processor. Explain the protection mechanism of x86 Intel family microprocessor.	10 10
2.	(a) (b)	Explain segment translation mechanism with flowchart. Also explain segment descri Explain data cache organisation of pentium and give emphasis on triple ported ac of data cache.	ptor. 10 cess 10
3.	(a) (b)	Explain dynamic branch prediction logic of Pentium processor. Explain different stages of integer pipeline and floating point pipeline of Pent processor.	10 ium 10
4.		 (a) USB (b) Data types supported by SPARC (c) VESA (d) CALL gate Mechanism 	20
5.	(a) (b)	Draw the block diagram of 80386 DX processor and explain each block in brief. State the features of PCI bus. Draw workstation based on PCI bus and explain.	10
6.	(b)	Compare super SPARC and ultra SPARC processors. Draw the architecture of sup SPARC and explain. Explain how flushing of pipeline is minimized in pentium processor. Also explain the instruction pairing rules for pentium.	
	(b) I	Explain Intel's Net Burst microarchitecture with diagram. Explain Itanium processor with respect to instruction format, core pipeline stag and functionality.	10 ges 10

,	Lax4-D:\Data-100	37
	T. E. Sem II Computer NOV13	11
(Jax4-D:\Data-100 T. E. Sem II Computer Nov 13 LJ-11 (3 Hours)	608
	(3 Hours) [Total Marks:	: 100
	Date 09/12/13	
]	N.B.: (1) Questions No. 1 is compulsory. (2) Attempt any four questions from the rest. (3) Assume suitable data if necessary.	
1.	Vidya Niketan is an Education Trust having 3 buildings in its campus, for management, Technology course and for hostel. It caters to approximately 500 students for each of the courses. Hostel facility is only outstation students of approximately 200 no. Vidya Niketan would like to design their network such that their buildings are connected through high-speed line. All the 3 buildings and their respective departments have access to common data center. The account, administration and examination departments are common. And also library and conference facilities are should. The Web server. Emailserver etc. are available to all.	
	(a) Assume suitable application running in the labs and departments and identify the need / requirements in terms of hardware, software connectivity.	10
	(b) Design the compus network wrt above requirment and draw neat diagram. The security concerns require to be handled.	10
2.	(a) Compare and conrast RIP and OSPF protocols.	10
	(b) Why traditional routing algorithms for unicasting can not be need for Multicasting. Expain anyone Multicast protocol (MOSPF / DVMRP) in detail.	10
3.	(a) Explain the need of studying queuing model while understanding Network traffic Engineering. Explain M / M / 1 queuing model with the help of an example.	10
	(b) Explain the working of MPLS network. What advantage does it offer over IP.	10
1.	(a) Explain SONET SDH Structure in detail.	10
	(b) What are the various Time Delay consideration taken into account while doing engineering for a traffic Network,	10
j.	(a) Eplain AAL layer and its various classes for ATM.	10
	(b) What are various network management tool available. Explain SNMP protocol.	10

(e) Class base and Class less addressing scheme in IPV4.

(d) NMAP

(f) SMDS.

Garbage collection and compaction.

(d)

Write short notes (any two):-

(b) Task Network and Timeline Chart

(a) CMM levels.

(c) Change Control.

Con. 7348-13.

TE (comp) Sem - VI - Oct 2013 (3 Hours)

22/11/13 LJ-11473

20

[Total Marks: 100

N		 Question No. 1 is compulsory. Out of remaining six questions, attempt any four questions. Assume suitable data wherever required. 	
1.	(a	For Construction company software is to be developed with following specifications: Company undertakes many projects each project is at particular location. Each project is supervised by project manager, assigned by COE of the company. Record related to start of the project, completion of it is maintained. Under each PM there is a team of people of different category like designer, plumber, electrician, Architect, labour etc. Each project is marketed by team of Marketing Executives. (i) Draw class diagram for it. (ii) Draw use - case diagram.	10
	(b)	Explain agile process with its advantages. Explain any one agile process.	10
2.	(a) (b)	How to map following associations to code? (i) Realization of unidirectional one-to-one associations. (ii) Bidirectional one-to-one associations. (iii) Bidirectinal on-to-many associations. (iv) Generalisation. Explain coupling and choesion types in detail.	10
3.	(a)	Why FTR is necessary? How FTR is conducted?	10
	(b)	Explain version control and change control with the help of suitable example.	1.0 1.0
4.	(a)	What is Sequence diagram? What are the elements used in Sequence diagram, explain each.	10
	(b)	Explain Integration and Regression Testing.	10
5.	(a) (b)	Explain Singleton Pattern in detail. Explain the following with suitable examples:- Composition, Association, Generalization, Aggregation.	10 10
6.	(a) (b)	Explain Function Point based Metrices. Draw the activity diagram of ATM activities.	10 10

48 Con-code 7 - JP

Con. 9243-13.
N.B.: (1) Question No. 1 is compulsory. (2) Answer any four questions out of the remaining six questions. (3) Assume data if
N.B.: (1) Question No. 1 is compulsory. (2) Answer any four questions out of the remaining six questions. (3) Assume data if required, and state clearly.
Q1. (A) What is a Data ware house? Explain the three tier architecture of a Data Ware house with a block diagram,
Q1. (B) Explain Data mining as a step in KDD. Explain the architecture of a typical DM
10
Q2. (A) What is meant by market- basket analysis? Explain with an example. State and explain with formula the meaning of following terms
(I) Support
(ii) Confidence
(iii) Iceberg Queries
Hence explain how to mine multilevel Association rules from transaction databases, with
Q2. (B) What is meant by Web Mining? Explain any one Web mining Algorithm.
Q3. (A) All Electronic company have sales department sales, consider three dimensions
(i) Time (ii) Product (iii) Store
The schema contains central fact table sales with two measures
(I) Dollars-cost and (ii) Units-Sold
Using the above example, describe the following OLAP operations
(I) Dice (ii) Slice (iii) Roll-Up (IV) Drill-Down
Q3. (B) Explain ETL (Extract Transform Load) cycle in a Data Warehouse in detail

19 C (Con-code on. 924	7-лр 43-LJ-11650-13	· TH Commo	1 581	Nov. 13	2
		E Sem	VI comp.	VI.		Dat 13/1
		Compare between C		14		10
	Q4. (B)	Explain in detail the	HITS Algorithm			10
	require	ements for "Hotel Oc	formation Package Di cupancy" having dime m for the same, also o	nsions like time	e, hotel etc., give t	he
	schem		m for the same, also t	iraw tile star se	Territa aria sire in in	10
	Q5. (B)	Consider the follow	ing transactions: -			10
	TID	Items				
	01	1,3,4,6				
	02	2,3,5,7				
	03	1,2,3,5,8				
	04	2,5,9,10				
	05	1,4				
		the Apriori Algorithm nd the large item set	n with minimum suppo L	ort of 30 % and	minimum confide	nce of 75
		Give five examples of the first Given History Given Given History Given	of application that car	use clustering	. Describe any one	clustering 10
			neta data? Explain wit ware house. Illustrate			ypes of
						*
	Q7. W	rite short Notes on (Any Two)			20

(a) Web Personalization

(c) Trends in Data Ware Housing(d) Attribute Oriented Induction

(b) Decision Tree based classification Approach