Total No. of Questions: 12]

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SEAT No.: [Total No. of Pages :2

[4961]-408

S.Y.M.C.A.(Under Engineering Faculty) ADVANCED DBMS

(2013 Course)

		ions to the candidates: [Max. Marks]	:50
	1)	Neat diagrams must be drawn wherever necessary.	
	2)	Assume suitable data if necessary.	
Q1)	a)	With suitable diagram explain the steps in query processing.	[4]
	b)	Describe Binary Search algorithm for selection operation.	[4]
		OR	
Q2)	a)	Consider the following query "Select balance from account where bala < 2500." write relational algebra expression for the above query explain query evaluation plan.	ance and [4]
	b)	Explain materialization evaluation with a suitable example.	[4]
Q3)	a)	Differentiate between centralized and client-server systems.	[4]
	b)	Explain parallel database architectures.	[4]
		OR	
Q4)	a)	Explain speed up and scaleup in parallel databases with suitable diag	ram. [4]
	b)	Explain the structure of Transaction Server Process with diagram.	[4]
Q5)	a)	Explain Distributed DBMS Architectures.	[4]
	b)	Explain need for Distributed Databases.	[4]
		OR	[4]
Q6)	2)	Explain Distributed query processing methodology.	[4]
	b)	Explain Data and Access Control.	[4]
			[4]
Q7) a	a)	Explain structured types with example. Explain object identity and reference types with examples. OR	[4]
	b)	Explain object identity and reference OR	P.T.O

Q8)	a)	What is persistent programming language and how it is different from embedded language?	n
	b)	Explain need of complex data type?	1]
Q9)	a)	What is the purpose of XMI 2 What are the male of AD II	
	b)	What is a Native XML Database? Features of Native XML Database.[4]	1
		OR OR	1
Q10))Wri	te short note on:	3]
	a)	XML schema document	
	b)	Generating XML pages using Basic SQL.	
Q11	()a)	What is NoSQL? Explain its features and applications in brief. [4]	[]
	b)	What is Graph Databases? What are the pros and cons of Grap	h 3]
	c)	What is Schema-less Databases? What are the pros and cons of Schema less Databases?	a- 3]
		OR	
Q12)Wri	te short note on:	0]
	a)	Single server.	
	b)	master-slave replication	
	c)	Sharding	
	d)	peer to peer replication.	



Total No.	of Questions : 12]	
p3725	SEAT No.: [4961]-401 S.Y.M.C.A.(Engineering) ADVANCED WEB TECHNOLOGY (2013 Course) (Semester-IV) (410909)	: 2
Instruction 1)	Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full marks. Assume suitable data if necessary.	50
<i>Q1)</i> a)	Explain common Language Runtime along with its component diagram	.[4]
b)	Explain Namespaces in Visual C# and how theses namespaces are impin the program with an example.	oort [4]
	OR	
Q2) a)	List and Explain Characteristics of Visual C#.	[4]
b)	Define Managed code and explain advantages of managed code.	[4]
<i>Q3)</i> a)	Explain Exception Handling along with an example.	[5]
b)	What is Method Overriding and how it is implemented in C#, Giv Example.	e an [5]
	OR	
Q4) a)	Explain concept of Delegate that is used in C#.	[5]

Give the Syntax of following loops/Control statement of C#2008.

b)

while ii)

for i)

foreach iv)

- iii) do
- ifelse v)

	Q5) a)	what is Web Based Application and ba	
	b)	What is Web Based Application and how to create Custom control Draw and Explain Architecture of Windows Presentation Found OR	l. [4]
		Explain wind OR	ation
	Q6) a)	features. Explain windows Presentation Foundation (WPF)	[4]
	b)	Explain WPF 3.5 Controls (Any four).	main
		Controls (Any four).	[יין
			[4]
	<i>Q7</i>) Exp	plain main features of Silver light.	[8]
		OR	[0]
	08) Exp	plain the following ASP.NET controls with example:	
١			[8]
ı	a)	Validation Control (Any one)	
	b)	Web Server Control(Any one)	
		aw and Explain Architecture of Windows Communication Found. CF).	ation [8]
		OR	
	<i>Q10)</i> Ho	w you can display web Application or website on target server.	[8]
	0111	- A DONET Architecture.	[4]
	Q11) a)	Explain ADO.NET Architecture.	[4]
	b)	Write a short note on LINQ.	
		OR	
		ca42008.	[8]
	Q12)Exp	plain following concepts of C#2008:	
	a)	Inheritance	
	b)	Polymorphism	

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P3"	726	SEAT No.:	
		[4961]-402 [Total N	
1	BAN	O. I. VI. A (II'a.)	
		ACCOUNTING & MANAGES	
		(Semester - IV) (410910)	
Time	2 1	May 16	
		ons to the candidates: [Max. Marks: 50]	
		Solve either of Question 1 or 2,3 or 4,5 or 6,7 or 8,9 or 10,11 or 12 in same answer sheet.	
		Neat diagrams must be drawn wherever necessary.	
	3)	Figures to the right side indicate full marks.	
	4)	Assume suitable data, if necessary.	
Q1)	a)	Explain the 3 rules used for book keeping. [6]	1
	b)	Explain the purpose of creating Balance Sheet & Profit & Loss Account [2]	
		OR	
Q2)	a)	Explain the concepts of "Going Concern" & "Recording transactions a Cost".	
	b)	Explain the difference between 2-Column & 3-Column Cash Book. [2	2]
Q3)		company Produces single product. About its product following data have given:-	as 8]
	C	Iling price per unit – Rs. 40/-, Marginal cost per unit – Rs. 24/-	
	Fix	ked cost per annual – Rs. 1600/-	
	Cal	lculate –	

- P/V Ratio, a)
- Break -even sales, b)
- Sales to earn a profit of Rs. 2000/-, c)
- Profit at the sales of Rs. 12, 000/d)

Q4) a) 1	Explain the preparation of Cost Sheet.	
b) '	What is a Cash Budget? Explain.	[6]
-,	Explain.	[2]
Q5) a) b)	What is Working Capital? How its requirement is calculated? Explain the various factors affecting the working capital requirement OR	[6] at.[3]
Q6) a)	How the working capital can be calculated for a seasonal business selling of Alphanso Mangoes in summer?	s like [6]
b)	Explain the various sources of financing the Working Capital.	[3]
Q8) Ex	plain the role of Reserve Bank of India in regulation of banking industors OR Aplain the Savings Deposit scheme and various aspects related with interest of the second	t. [8]
<i>Q10)</i> E	OR Explain the concept of Standing Instructions with example.	[8]
011)\	What do you understand by Virtual Banking? Explain with example. OR Why CBS is also known as Any Time Any Where Any How banking	[9]? Explain.

Total No. of Questions: 121

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SEAT No. : [Total No. of Pages : 3

[4961]-403 [To S.Y.M.C.A. (Engg.) CN & INFORMATION SECURITY (2013 Course) (Semester - IV) (410911)

may-16

Time: 3 Hours!

[Max. Marks: 50

Instructions to the candidates:

- 1) Answers to the two sections should be written in separate answer books.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume suitable data if necessary.

SECTION - I

Q1) a) What are different types of transmission modes? Explain. [4] Explain LAN and WAN with diagram and usage. b) [5] OR Write short note on: [6] (O2) a) Router i) · **Switches** ii) Bridges iii) List out six network hardware components. [3] Q3) Explain TCP/IP model in detail with neat diagram. [8] OR [8] Q4) Explain ALOHA and CSMA.

Q5) a)	What do you mean connection oriented and connection less services.[4]		
b)	Explain different functions of transport layer.	[4]	
	OR		
Q6) Exp	lain any two routing algorithm.	[8]	
	SECTION - II		
Q7) a)	Write about Domain name system with suitable example of Domain server.	name [4]	
b)	Explain how electronic mail works and list out the services offe SMTP.	red by [4]	
	OR		
<i>Q8)</i> W	Vrite Short Note On:	[8]	
a)	HTTP Protocol.		
b) TFTP		
c c) Static and Dynamic Webpages		
d) SMTP		
		[4]	
Q9) a	Explain different types of attack.	[4]	
•	Explain RSA algorithm in detail.		
	OR	[4]	
	a) Explain DES algorithm in detail.		
Q10):	a) Explain DES de Bissant types of Cipher.	[4]	
	b) State and explain Different types of Cipher. 2		
[496]	1]-403		

<i>Q11)</i> a)	Explain Secure socket layer.	
b)	Write a short note on	[5]
	i) SNMP	[4]
	ii) firewall	

OR

Q12)a) Why is the SSL positioned between the application layer and the transport layer? [5]
b) What do you mean one time passwords? Explain in brief. [4]

xxx

Total No. of Questions : 12] SEAT No.: P3728 [4961]-404 [Total No. of Pages : 2 S.Y.M.C.A. (Engg.) **INFORMATION SYSTEMS AUDIT** (2013 Pattern) (410912) (Semester - IV) (Elective - I) Time: 3 Hours] IMax. Marks: 50 Instructions to the candidates: Answer to the two sections should be written in separate answer books. 2) Neat diagrams must be drawn wherever necessary. 3) Figures to the right side indicate full marks. Assume Suitable data if necessary. **SECTION - I** What is Information System auditing? State and explain major objectives (1) a) of IS auditing in brief. What do you mean auditing through the computer? Explain. b) OR Q2) Why there is a need for control & audit of computer systems? Q3) Explain IS auditor's concern about application software might be acquired or developed by in - house - staff. OR Briefly Explain the risk areas and control used in Electronic Data Q4) a) Interchange.

- [4]
 - Explain Operating System control. b)
- Q5) What are the three ways in which the IS auditor can get involved in the system development process in detail? OR

Q6) Write short note on

- Risk & controls of OOM
- Auditor's role in working of QA/QC of SDLC. a) b)
- Auditor's role in SDLC. c)

[9]

[5]

[3]

[8]

SECTION - II

- ANTI- II	
How the auditors can make judgment about the Controls in design of entry screens? Explain with example.	f data [9]
OR	
(28) Explain the concept of BCP in the context of a Bank.	[9]
29) A person is buying home gadgets through online shopping. Discuss some related Issues that an IS Auditor needs to consider in such case.	ecurity [8]
OR	
Q10) What is Segregation of duties? Explain how an auditor checks it in info system staffing?	ormation [8]
 Q11)a) State any 2 control frameworks available for IS Auditing. b) Explain COBIT key principles for governance and managenterprise IT in brief. 	[2] ement of [6]
OR	
Q12)Explain7 enablers of COBIT Framework with suitable diagram and e	explanation. [8]