MCA-sem IV (CBQS) E-BUSASiness

30/11/15

1	Q.P. Code : 25346	
	(3 Hours) [Total Marks : 80	
	Note:	Jarks
	Attempt any four Question between Question No.2 to 7	
01	A) Explain the Factors affecting E business for the Success of E business.	[10]
~~~	<ul> <li>B) What E Market? Explain the advantage and Disadvantage of E Market.</li> </ul>	[10]
Q 2.	<ul> <li>A) States the importance of beta testing in designing of an E business solution.</li> </ul>	[08]
	B) Explain the risk of paper document versus electronics documents.	[07]
Q 3.	A) What is EDI? Explain the various EDI standards in detail.	[08]
	B) With the help of appropriate illustration, Explain the different forms of cyber attacks.	[07]
Q 4.	A) Explain the globalization of the Business impact on the Current	[08]
	Environment.	(0 <b>.</b>
	B) What is the difference between e-business versus e-commerce portal.	[07] (09]
Q 5.	A) Explain the impact of E Business on Society with detail.	[00] [07]
0.6	B) Explain legal issues pertaining to Eleoninierce with suitable example.	[07]
Q 0.	<ul> <li>M-Commerce</li> <li>Privacy and Security issues</li> <li>ISP</li> <li>SSL.</li> <li>DNS</li> </ul>	. ,
Q 7.	A) Explain the Integration Function and business process.	[08]
R. P.	B) How a local E Business Becomes global e-business?	[07]
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# MICA SEM TU C.B.G.J. Human Computer Interfer 30/11/15-

# Q.P. Code : 25349

[Total Marks: 80

		143
(3 Hours)		E Contraction
N.B.: (1) Question No. 1 is compulsory. (2) Attempt any four questions from the remaining questions.		ill in the second secon
1. A) For a good user interface design what all human consideration characteristics and designing constraints required to take care of by a designer.	(15)	S.
B) Explain different concepts in Web systems and its windowing capabilities.	(5)	
2. A) Explain various advantages and disadvantages of graphical system	(8)	
B) Explain various techniques used for requirement gathering in user interface?	(7)	
3. A) What are the various obstacles and pitfall in development process of user interface?	(8)	
B) What are functions for menu in user interface?	(7)	
4.A) Explain various visual composition for a screen design.	(8)	
B) What are the different presentation styles available for developing good User interface?	(7)	
5. A) Explain how to select a proper device controls to user for making selections	(8)	
and entries.	(0)	
B) Explain Window management for designing an interface?	(7)	
6. A) What are various forms of guidance assistance to a user for an effective user interface?	(8)	
Explain in briefly.	(7)	
7. Write short note ( Any three) A) Direct Manipulation B) Human Interaction speed	(15)	a
C) Performance versus Preference D) Presentation Controls		
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PA-Con. 6096-15.		

MCA Sem IV CBG5 SMS · 26/11/AS-

#### QP Code : 25332

(3 hours)

(Total marks 80)

**[TURN OVER** 

N.B. (1) Question No. 1 is compulsory and carries 20 marks.

- (2) Attempt any four questions out of remaining six questions.
- (3) Use of calculator is allowed

#### 1) a) Discuss simulation application in any one of the following system

- i) Takeaway Food Delivery
- ii) Cash Counter analysis in Bank
- iii) Passenger flow analysis in an airport terminal

b) The highway between Mumbai and Pune has a high incidence of accidents along its 250 Km. Public safety officers say that the occurrence of accidents along the highway is randomly (uniformly) distributed, but the news media says otherwise. The public safety department published records for the month of March. These records indicated the point at which 15 accidents occurred, as follows:

88.3	40.7	36.3	27.3	36.3	
91.7	67.3	7.0	45.2	23.3	
98.8	90.1	17.2	23.7	97.4	4

Use Kolmogrov-Smirnov test to determine whether the distribution is uniformly distributed (Given D_{0.05,15}= 0.338) [10]

a) Consider a drive in restaurant where carhops take order and bring food to the car. Cars arrive according to the interarrival distribution of cars. There are two carhops, Able and Baker. Able is better in doing the job and works a little bit faster than Baker. When a customer arrives, if he finds Able free, the customer starts service immediately with Able. If able is not free but Baker is, then the customer starts service immediately with Baker. If both are busy, the customer starts service immediately with Baker. If both are busy, the customer starts service immediately with Baker. [8]

Interarrival time of cars, min)	1	2	3	4	5
Probability 15	0.18	0.25	0.27	0.17	0.13
7					

Able's 5 to ce Time (min)	2	3	4	5
Probability	0.17	0.24	0.29	0.30
Ration's Service Time (min)	3	4	5	6

Baker's Service Time (min)	3	4	5	6
Probability	0.18	0.22	0.30	0.30

 Develop the simulation table and analyze the system by simulating the arrival and service of 10 customers.

ii) Sow many minutes Able as well as Baker were busy?

iii) How many customers had to wait?

(iv) What is the average waiting time?

Assume that the first customer is arriving to system at 0th time random digits for interarrival time and service are given below:

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									<u> </u>	
	4		2	4	5	6	7	8	9	10
Customer		2	66	11	21	37	79	18	60	98
R.D. for Interarrival time		32	00	41	20	57	72	62	56	73
<b>B.D. for Service Time</b>	49	53	34	11/	1.50		النام _			

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b) Explain Naylor and Finger validation approach.

- [7]
- a) A baker is trying to determine how many dozens of bagels to bake each day . They probability distribution of the number of customers/day is given in table.

## Probability distribution of number of customers/day

Number of customers/day	8	10	12	14	
Probability	0.35	0.30	0.25	0.10	1

Customers order 1,2,3,4 dozen bagels according to probability distribution given in table.

# Probability distribution of bagels ordered by customer

No. of dozen ordered / customer	1	2	3	4
Probability	0.4	0.3	0.2	0.1
		-		l

Bagels sell for Rs.54 per dozen. They cost Rs. 38 per dozen to make. All bagels not sold at the end of the day are sold at half price to local grocery store. Assume that the baker baked 30 dozens every day, Make a simulation table and find out the total profit.

n a statistic for	bagel customer/day	1		
Random digits iou	B D for customer/day	44	63	83
	K.D. for customender			

Random digi	ts fo	or do	zens	s ord	lered /	custo	mer			9	7	5	3	6	3	4	9	6
RD for dozens	1	0	0	2	0 5	6	3	2	9	Ľ.	<u> </u>							
orderd/customer	3	1	0	7	258	3 7	4	8	2	1	7	1					 	

b) Discuss multivariate and Time-Series Input Models

4) a) What do you mean by simulation? Write down the steps in simulation study .

b) A college professor is leaving home for summer but would like to have a light bulb burning at all times to discourage burglars. The professor rigs up a device that will hold two light bulbs. The device will switch the current to the second bulb if the first bulb fails. The box in which the light bulbs are packaged says "Average life 1000 hours, exponentially distributed." The professor will be gone 90 days (2160 hours). What is the probability that a light will be burning when the summer is over and the grofessor returns?

5) (a) How would you collect data to be used as input to simulation model? In case there is no data, (b) then how would you generate samples to be used as input to simulation study? [8]

PA-Con. 6079-15.

**TURN OVER** 

[7]

[8]

- b) Write down the inverse transformation of Weibuil Distribution. The life time of a computer chip measured in hours is Weibuli distributed with parameters  $\alpha =$ 0.2,  $\beta$  = 0.5 and v =0. Generate two random life time of computer chip from this distribution? Use R₁ = 0.6173 and R₂ = 0.4829 [7]
- 6) a) What are the properties of random Number? What are the methods used to generate random numbers? Explain with the help of example. [8]
  - b) The following data were available for the past 10 years on demand and lead time. Estimate correlation and covariance. 5[7]

	1	1	···							
Lead Time	6.5	4.3	6.9	6.0	6.9	6.9	5.8	7.3	4.5	6.3
Demand	103	83	116	97	112	:104	106	109	92	96

- 7) a) Explain output analysis of Terminating Simulation and Steady State Simulation
  - b) Consider the following sequence of 30 numbers

[7]

[8]

0.12	0.01	0.23	0.28	0.89	0.31	0.64	0.28	0.83	0.93
0.99	0.15	0.33	0.35	0.91	0.41	0.60	0.27	0.75	0.88
0.68	0.49	0.05	0.43	0.95	0.58	0.1.9	0.36	0.69	0.87

upplander and the second of th Test whether the  $3^{rd}$ ,  $8^{th}$ ,  $13^{th}$ , ....numbers in the sequence are autocorrelated where  $\alpha = 0.05$ . (Given Z_{0.025} = 1.96)

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MCA Sem IV (CBGS)

23/11/15.

Sobt Skill Development-

QP Code : 25330

#### <u>Time 3 Hrs</u>

Total Marks 80

	Instructions to the can	didates:-			
	(i)	Question No 1 is compulsory	•		
	(ii)	Answer any four (4) of the re	maining six (6)	questions.	
	(iii)	Answers to the questions shou	ld be grouped an	ad written together.	-
	(iv)	Figures on the right indicate fu	<b>ill marks a</b> ssign	ed to the question.	
	(V)	Do not reveal your identity in	n the letters and	reports	150
					St
	Q1. (a) What do you un	derstand by the word "Commu	nication". Expla	in the five elements of	
	Communicatio	n. Elaborate with the help of ex	ample.	3	10
	(b) Evolain few of	the psychological harriers to co	mmunication. F	low do they affect Comm	unication
	(b) Explain Iow of	ale hay more group our nois to er		0	
	in a Business	context			10
	· · · · · · · · · · · · · · · · · · ·				
	Q2. (a) Explain the diff	erence between Verbal and Nor	werbal Commu	nication. Explain any four	•
	types of Nonve	rbal Communication	and the		08
	••		00	<b>TT</b>	
	(b) What are the di	fferent types and determinants	of Personality?	How does personality	- 07
	influen	ce organisational behaviour?	9.		07
			-		
		30°	+		
	Q3. (a) Draft the notic	e with agenda for a meeting of	the Student's co	uncil to organize the Bloc	bđ
	Donation C	amp in your College		× .	08
		6			
	(b) Write Mi	nutes of Meeting for the above			07
		, Or			
		T.			
	Q4. (a) What are the	ectuiques to be followed in Pro	e-Interview and	during an Interview?	08
	(1) XI /h at say this	Des and Don'ts of a good group	n discussion?		07
	(b) what are the	Dos and Don'ts of a good group	p discussion:		07
	3				
	A.				
	Q5(a)E plain Five S	age Model of Group Developm	nent		.08
	dest - 1 Change	Management with respect to the	ne Organization		.02
	Kourspiain Stress	ivializagement with respect to u	ie Organization		07
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#### QP Code : 25330

08

Q6. (a )Write an application with CV to apply for the post of Senior Software Engineer in ABC

Infotech

07 ATEL (b) Write a Letter of enquiry to a catering service for arranging a small party at your

office.

- Q7 Write short notes on any three:-
- (a) Time Management.
- **(b)** Motivation.
- Leadership. (c)
- (d) **Emotional Intelligence**

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19/11/15

MCA-Sem IV (CBGS) 19/ Advance Database Meory & Applications.

### QP Code : 25328

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(08)

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(08)

(08)

(15)

[Total Marks: 80

#### (3 Hours)

1) Question No.1 is compulsory. N.B. : 2) Attempt any four from the remaining six questions. Briefly compare any three following concepts 1. (a) A. Data warehouse and Data mart. B. OLTP and OLAP. C. ROLAP and MOLAP. D. Bloom Join and Semi Join. (b) Describe how the scanning, sorting and join operations can be (08) parallelized using Data partition techniques. 2. (a) Explain KDD process steps in detail with suitable diagram. (b) Explain complex and structure data types in ORDBMS. 3. (a) What is Association Rule mining? Explain Apriori Algorithm with (07) example. (b) What is data staging? Explain ETL process in data warehouse with (08) example. Explain 2PC protocol in details with suitable example. 4. (a) (b) Explain major functions of OLAP with examples... 5. (a) What are the challenges in implementing ORDBMS? Explain them (07) briefly. (b) Describe K-Means clustering with suitable example. Explain Star schema, Snowflake schema and Fact constellation with (07) 6. (a) suitable examples. what is a classification technique?Describe Decision Tree in detail. (ው)

- 7. Write Short Notes on any three :
  - a) Data quality
  - b) Parallel DB Architectures
  - c) Web usage mining
  - d) Meta data
  - e) Multimedia database

# MURD SAME SARDAR PA PA-Con. 6075-15.

MCA CBSGS Sem IV ( Core & Adv. Jona)

17-11-2015

QP Code : 25324

#### (3 Hours)

QI.	a) XML& DTD	(20)
	b) Session tracking in servict	
	c) BorderLayout and Gridlayout	1
	d) abstract class	
	e) struts architecture	
		1
Q2.	<ul> <li>a) What is constructor? Explain the types of constructor.</li> <li>b) What is package? Create one package by the named 'government' contains classes as 'Developmet', 'Yojana', 'Ministry' etc. Implement these classes each containing at least</li> </ul>	(08) (07)
	two methods, apply Inheritance concept and write the Java program.	
Q3.	a) Which are the types of Exception? Explain try, catch, throw & throws keyword.	(08)
- 00 x	b) Explain Life cycle of servlet. Write a servlet program to add cookies.	(07)
Q4.	a) Explain Event Delagation method. Explain ItemListener and Mousel istener interface	(08)
	b) How do we achieve multiple inheritance in java? Explain with java program.	(07)
Q5.	a) What is StringBuffer class? Write a program to append a String.	(08)
	b) Write a JSP program for the agriculture field to store farmer information in database.	(07)
Q6.	a) What is synchronisation? How the Thread is created? Draw the life cycle of Thread.	· (08)
	b) What is EJB? Explain Entity bean & message driven bean.	(07)
1.4	1980	<u>0-</u> )
Q7.	a) Which are the Stream classes? Explain it in detail.	(08)
	b) Write an applet program that will show GUI components like line, ellipse, polygon, etc.	(07)

#### PA-Con. 6071-15.