— MCA/Sem-V (CBSQS)/Advanced Web Technology & Dok Net/ — MAY 2017

[Time: Three Hours]

Q.P. Code: 02541

Please check whether you have got the right question paper	
N.B: 1. Question.No.1 is Compulsory.	
2. Answer any Four from Question No.2 to Question No.7	
C.1 Attempt any four:	S 20
a) What is AJAX? Explain execution process of AJAX.	
5) Write a note on C# Constructors.	
c) Explain Page Events in ASP.NET Page.	
c) Explain Semantic Web Architecture	
e) Explain Assemblies with its types.	
and the second s	08
=2 a) Explain any how will you manage Sessions In an ASP; NET application.	
5) Explain the Architecture of .NET Framework	07
	08
=3 a) Explain File handling in C# with an example	
5) Explain any four web Server Controls in ASP NET with example	07
Tara) What is WCF? Explain the architecture of WCF	08
5) What are the different types of collections in C#? Explain Generics with example.	07
TS 2) What are Delegates? Explain unicast and multicast delegates in C# with an example of each.	08
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=) What is Web Service Architecture and explain S.D.A. characteristics supported by Web Services.	07
CE 1) What is XAML? Explain importance of XAML in modern Presentation technologies.	08
= Explain inheritance and polymorphism in C# with an example.	07
What is ADO NET? Explain connected and disconnected architecture.	08
S What is VIEWSTATE? Write a program to illustrate use of ViewState.	07

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MCA! Sem-V (CBSGS)/Wireless & Mobile Technology/ May-17

Q.P. Code: 05636

			[Time: 3 Hours] [Marks:	80]
			Please check whether you have got the right question paper. N.B: 1. Question No. 1 is compulsory. 2. Attempt any four from the remaining six questions. 3. Figures to the right indicate full marks.	える。
Ī	Q.1	A B	A What is antenna? Write any three functions performed by an antenna? Describe the types of antennas? Explain in detail the GSM system architecture? Distinguish between user-related and system related identifiers?	10 10
-(3	Q.2	A B	(10/Mat in value and a 100 11/Last all a 1 L L L L L Color Matala 100 L Matala Matala Matala Matala Matala Ma	08 07
. .	Q.3		routes do packets take if reverse tunneling is required?	08 07
	Q.4	Α	What are the convolution codes? Draw an encoder and state diagram with n=2 k=1 and k=3 encode the bit sequence 1011001 using (2,1,3) encoder.	08 07
	Q.5	Α	Describe WAP programming model: Explain the role of WAP gateway and WAP user agent profile.	08 07
,	Q.6		Compare the different types of transmission errors that can occur in wireless networks. How and why does I-TCP isolate problems on the wireless link? What are the main drawbacks of this solution? What is the relationship between master and slave in a piconet? Explain the different states of Bluetooth device.	08 07
	Q.7	1 2 3 4	Write short notes on any 3 Generation of cellular networks Handoff Snooping TCP Fading	15
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MCA Sem-T (CBSGS) / Soft Computing / may-2017

Q.P. Code: 02868

		[Tirne: Three Hours]	[Marks:80
		Please check whether you have got the right question paper. N.B: 1. Question.No.1 is compulsory. 2. Attempt any four from the remaining six questions. 3. Use of calculator is allowed.	
Q.1	A)	With a flowchart, explain the operation of Genetic Algorithm. Also explain various types of crossover and mutation techniques	10
	В)		10 ne
Q.2	A)	Explain in brief any 2 fuzzy decision making techniques.	80
	B)	Draw and explain Perceptron network. Explain Perceptron Learning rule.	07
Q.3	A)	Explain in brief fuzzy reasoning	80
	B)	Explain in detail different types of neuron connection architecture:	07
Q.4	A)	Differentiate between the following 1. Genetic Algorithm and Traditional algorithm 2. Biological Neural Network and Artificial Neural Network	08
7	B)	Consider two fuzzy sets R and S Y1 Y2 Z1 Z2 Z3 R = X1 0.6 0.3 S= Y1 1 0.5 0.3 X2 0.2 0.9 Y2 0.8 0.4 0.7 End Max-min composition and Max-product composition.	07
Q.5	A)	Explain Associative memory network with its types.	80
	B)	Explain working principle of Fuzzy inference system (FIS) with its types.	07
0,6	A).	Explain architecture of Adaline with its training algorithm.	80
	ુB) ઙે	Explain in detail the belief and plausibility measures.	07
0.7		Write Short Notes on any three:- a) travelling salesman problem using GA approach b) GA vis Traditional Algorithm c) Extension principle d) Set of operations performed on Interval.	15
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MCA/CBSGS/SEM型/DCCC/MAY 2017

T8625 / T0263 DISTRIBUTED COMPUTING AND CLOUD COMPUTING

QP CODE: 516501

(3 hours)	Total Marks:80
 N.B. 1. Question No. 1 is compulsory. 2. Answer any FOUR from the remaining SIX questions. 3. Figures to the right indicate full marks. 	
1 (a). What is false sharing? When is it likely to occur? Can it be completely advantages & disadvantages of using small & large block sizes.	eliminated? Give relative (10)
(b). Give a mechanism for consistent ordering of messages in following ca i. One – to – Many Communication ii. Many – to – One Communication iii. Many – to – many Communication	ases :- (10)
2 (a). Discuss SaaS, PaaS and laaS along with their relative benefits and chal	llenges. (8)
(b). Compare and contrast Grid Computing with Cloud Computing.	(7)
 3 (a). Differentiate between process and thread concepts. Give suitable examples following: i. A process using multiple threads that are organized in a dispation. ii. A process using multiple threads in a team model. 	
 ii. A process using multiple threads in a team model. iii. A process using multiple threads in a pipelined model. (b). What is a service? What is Service-oriented Architecture? Discuss differented Architecture. 	(8) Ferent elements of Service- (7)
4 (a). What is Callback RPC Facility? Give an example of an application when (b). Describe Blocking and Non — Blocking types of RPC. Give relative adva (c). What is an Idempotent Operation? Give three examples with explana	(5) antages and disadvantages.(5)
5 (a). Explain various data locating strategies used in DSM system that uses blocks (NRMB) strategy.	Non-replicated migration (8)
(b). Explain stateless server and stateful server concepts. Explain advanta paradigm in crash recovery.	ges of stateless server (7)
6. Differentiate between (ANY THREE)	(3 * 5)
 a) Monolithic and Microkernal b) Workstation – Server Model and Processor – Pool Model c) Public Cloud and Private Cloud d) Full File caching and Block caching Models for Caching Mecha 	nism.
7. Write Short Notes (ANY THREE) a) Multidatagram Messages	(3 * 5)
d) Minitratelian Archaeles	

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b) Hadoop/MapReduce

c) Real Time Distributed Systemd) Composing Services for SOA

MCA/CBSGS/REMV/CS/MOUYDOTA T8625/T0264 ELECTIVE II CYBER SECURITY

Q.P.Code:18005

		(3 Hours) Total Marks: 80) 3/3/
N.B.	(1) (2) (3) (4)	Question No. 1 is compulsory. Attempt any four from the remaining six questions. Illustrate answers with neat sketches wherever required. Answers to questions should be grouped and written together.	
Q. 1	(a)	Explain SQL Injection attack and its prevention in detail	10
	(b)	List and explain Intellectual Property in the Cyberspace	10
Q.2	(a)	Explain various key challenges with respect to Cyber Security	8
	(b)	Describe the various attacks possible on mobile/cell phones.	7
Q. 3	(a)	Describe types and techniques of credit card fraud	8
	(b)	Explain Phishing techniques in detail.	7
Q. 4	(a)	What are types of ID Theft attacks? How to protect being victim of ID Theft?	8
	(b)	Explain the types of DOS attack in detail.	7
Q. 5	(a)	Discuss how criminals plan the attack with relevant example.	8
	(b)	Explain Second Schedule of the Indian ITA 2000.	7
Q. 6	(a)	Describe any four key practices in organizations end-point security program.	8
	(b)	Describe Incident Response Life Cycle in detail.	7
Q. 7	Wri	te short notes on (any 3):-	15
	(a)	Positive Areas of ITA 2000	
	(b)	Keyloggers	
	(c).	Electronic Signatures in Global and National Commerce Act (E-sign) Possible types of attack against 3G mobile network	
	7.	Tossione types of attack against 30 mount network	

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MCH SEMT CBSGS MT MOUSENS T8625/T0265 ELECTIVE IMULTIMEDIA TECHNOLOGY

Q.P. Code :01118

			[Time: Three Hours]	[Marks:8
		۲	Please check whether you have got the right question paper. N.B: 1. Question.No.1 is compulsory. 2. Attempt any four Question between Question No.2 to 7	
	ı.	(a) (b)	Explain important considerations involved in using digital video in Multimedia? Explain the various stages of developing a multimedia project.	10 10
G	2.	(a) (b)	Explain types of graphics. Differentiate between vector image and bitmap image. What is CBT? Explain the uses of multimedia in CBT?	8 7
	3.	(a) (b)	Explain principles of animation and its various techniques in detail. Discuss the important role of Planning and Costing in Multimedia?	8 7
	4.	(a) (b)	Explain in detail the use of Multimedia on WEB? Discuss different types of Multimedia Structures. How they are organized?	8 7
	5.	(a)	List and describe the three different types of authoring systems and discuss the advantages of each one?	8
		(b)	Discuss the types of audio file formats used in multimedia with their limitations.	7
į · · · · ·	5.		Write Short Notes (Any Three) 1. ALPHA OR BETA TESTING 2. Hot spots, Hyperlink and buttons 3. Proto type Development 4. Digital sound Sampling 5. HDTV	15
14	-	(a)	Explain MPEG audio and video compression	8
			Explain Analog display standards and Digital display standards.	7