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Total No of Pages: 3

7E7031

B. Tech. VII Sem. (Main/Back) Exam., Nov.- Dec. - 2017 **Computer Science & Engineering 7CS1A Cloud Computing**

Time: 3 Hours

Maximum Marks: 80

Min. Passing Marks: 26

Instructions to Candidates:

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.

Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. NIL

2. NIL

UNIT-I

What are the Ethical Issues in cloud computing? Q.1 (a)

[8]

[8]

(b) What is ubiquitous computing? Also explain the ubiquitous cloud concept?

<u>OR</u>

Explain the Internet of Things (IOT) and the use of the RFID in the cloud

computing for pruned IOT?

[8]

What do you mean by problem of many hands in cloud computing?

[8]

[7E7031]

Page 1 of 3

[5240]

<u>UNIT-II</u>

Q.2 ((a)	Differentiate between public, private and hybrid cloud according to	their
		functionality.	[8]
((b)	How the Hadoop Mapreduce works? Explain working of Map Reduce.	[8]
		<u>OR</u>	
Q.2 ((a)	What is need of data centers? Explain by providing case study of	any
		industry/organization where data center is used.	[8]
((b)	What are the high level languages that can be used in cloud compu	ting
		programming? Explain.	[8]
		UNIT-III	
Q.3 (a)	What do you mean by hypervisor? Explain types of hypervisors.	[8]
(b)	Explain the difference between emulation, native virtualization and l	
		virtualization?	[8]
	×	<u>OR</u>	
Q.3 (a	a)	What are the different types of virtualization?	[8]
(1	b)	What is the difference between KVM and Xen?	[8]
		<u>UNIT-IV</u>	
Q.4 (a	a)	"Cloud Computing provide zero-day start & stop functionality?" how it	is
		possible? Explain.	[8]
(t	b)	What do you man by took 1.1.1.	[8]
[7E703	81]	Page 2 of 3 [5240]	

Q.	4 W	rite Short note on:-	
	(a)	Vendor lock in	[4]
	(b)) Isolation failure	[4]
	(c)	Compliance and legal risks	[4]
	(d)		[4]
			[4]
		<u>UNIT-V</u>	== =
Q.5	(a)	What do you mean by SLA? Explain elements of SLA.	[8]
	(b)	Explain the phases of service level agreement.	[8]
		<u>OR</u>	[0]
Q.5	Wri	ite short note on:-	8
	(a)	Pats breaches	543
	(b)	Account hijacking	[4]
	(c)	Denial of services	[4]
	(d)	Insufficient due diligence.	[4]
>	17	and dingence.	[4]
		· · · · · · · · · · · · · · · · · · ·	8

	Roll No Total No of Pages: 3
7E7032	7E7032 B. Tech. VII Sem. (Main/Back) Exam., Nov. – Dec 2017 Computer Science & Engineering 7CS2A Information System Security CS, IT
Time: 3 I	Hours Maximum Marks: 80 Min. Passing Marks: 26
Atter carr data Unit Use (Me	ns to Candidates: npt any five questions, selecting one question from each unit. All questions y equal marks. Schematic diagrams must be shown wherever necessary. Any you feel missing suitably be assumed and stated clearly. s of quantities used/calculated must be stated clearly. of following supporting material is permitted during examination. ntioned in form No. 205)
1. <u>NIL</u>	2. <u>NIL</u>
	<u>UNIT-I</u>
Q.1 (a)	Explain the DES Algorithm in detail. What is the block size, cipher key size and
	round key size in DES?
(b)	Explain the various security policies, attacks, mechanism. [6
	<u>OR</u>
Q.1 (a)	Encrypt the message "secret message" using Vigenere cipher with the key KLA
	(hint: Vigenere cipher uses repetitive key stream to encrypt a message).
(b)	Explain the transposition ciphers and substitution ciphers in details.

Page 1 of 3

[7E7032]

[6120]

<u>UNIT-II</u>

Q.2	Wh	at are characteristic of symmetric key cryptosystem? Explain the AES algorith	m ii
	deta	uil.	[16
		<u>OR</u>	
Q.2	Exp	plain the S-Box design criteria. Write the steps of RC6 stream algorithm	and
	exp	lain in detail	[16]
	•	<u>UNIT-III</u>	
Q.3	(a)	Explain the RSA algorithm in detail. In RSA, prime numbers $p=19$, $q=23$,	anc
3		$e = 3$ are given. Find n, $\emptyset(n)$, and d.	[10]
	(b)	Explain the process of distribution of secret keys using public	key
		cryptosystem.	[6]
		<u>OR</u>	
Q.3	(a)	Explain the discrete logarithms problem.	[4]
	(b)	What is the use of Diffie - Hellman key exchange algorithm? Explain	the
		Diffie - Hellman algorithm in detail.	[8]
4)	(c)	Explain the process of distribution of secret keys using X.509 certificate.	[4]
		<u>UNIT-IV</u>	
Q.4	(a)	What is the use of Hash function in digital signature? Explain the MD5 mess	sage
		digest algorithm?	[10]
	(b)	Explain the secure Hash Algorithm (SHA) in detail.	[6]
[7E7	032]	Page 2 of 3 [6120)]

(a)	What is the use of Digital Signature Standards (DSS)? Write the steps and pro-	oof
	of DSA Algorithm.	[8]
(b)	Alice chooses prime numbers $q=101$ and $p=8081$, primitive root $e_0=3$, priving	ate
	key $d = 61$, random number $r = 61$ and digest $h(M) = 5000$. Calculate the pub	olic
	key e_1 , e_2 and signatures S_1 and S_2 .	[8]
	<u>UNIT-V</u>	
(a)	Explain how Bob finds out what cryptographic algorithm Alice has used when	he
	receives a PGP message from her.	[6]
(b)	In PGP, explain how Bob and Alice exchange the secret key for encrypt	ing
	messages.	[6]
(c)	Describe how master secret is created from pre-master secret in SSL.	[4]
	<u>OR</u>	
(a)	Define the goal of each phase in the handshake protocol.	[8]
(b)	What is the risk of using short - length keys in SSL? What type of attack can	an
	intruder try if the keys are short?	[8]
	(b) (a) (b) (c) (a)	of DSA Algorithm. (b) Alice chooses prime numbers q=101 and p=8081, primitive root e ₀ = 3, priv key d = 61, random number r = 61 and digest h (M) = 5000. Calculate the put key e ₁ , e ₂ and signatures S ₁ and S ₂ . **UNIT-V** (a) Explain how Bob finds out what cryptographic algorithm Alice has used when receives a PGP message from her. (b) In PGP, explain how Bob and Alice exchange the secret key for encrypt messages. (c) Describe how master secret is created from pre-master secret in SSL. **OR** (a) Define the goal of each phase in the handshake protocol. (b) What is the risk of using short – length keys in SSL? What type of attack can be a secret with the risk of using short – length keys in SSL? What type of attack can be a secret with the risk of using short – length keys in SSL? What type of attack can be a secret with the risk of using short – length keys in SSL? What type of attack can be a secret with the risk of using short – length keys in SSL? What type of attack can be a secret with the risk of using short – length keys in SSL?

Total No of Pages: 3 Roll No. 7E7033 B. Tech. VII Sem. (Main/Back) Exam., Nov. - Dec. - 2017 **Computer Science & Engineering 7CS3A Data Mining and Ware Housing** CS, IT **Maximum Marks: 80** Time: 3 Hours Min. Passing Marks: 26 Instructions to Candidates: Attempt any five questions, selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly. Use of following supporting material is permitted during examination. (Mentioned in form No. 205) 2. NIL 1. NIL **UNIT-I** What is Data Mining? Explain its functionalities in detail. [8] Explain various Data reduction strategies of data mining to warehousing. [8] OR Explain the concept of Data Integration and Transformation. [8] (b) What is Discretization and concept hierarchy generation? Explain. [8] **UNIT-II** Q.2 Explain Data generalization and Analytical characterization in detail. [16]

[7E7033]

Page 1 of 3

[5980]

Q.2	(a)	Write and Explain Apriori algorithm.	[8]
	(b)	Explain the Association Rules in Large Databases.	[8]
		<u>UNIT-III</u>	
Q.3	Wha	at is classification and prediction? Explain various issues regarding classifi	cation
	and	prediction in detail.	[16]
		<u>OR</u>	
Q.3	(a)	Write & Explain Back propagation algorithm.	[8]
	(b)	Give advantages and disadvantages of decision tree approach over	other
		approaches of Data-mining.	[8]
		<u>UNIT-IV</u>	
Q.4	(a)	Give differences between Database system and Data warehouses in detail.	[8]
	(b)	Explain Multi dimensional Data model.	[8]
		<u>OR</u>	
Q.4	(a)	Explain 3-Tier architecture of Data warehousing.	[8]
	(b)	Write short note on Data cubes and stars.	[8]
		<u>UNIT-V</u>	
Q.5	(a)	Explain OLAP functions and various tools associated in detail.	[10]
	(b)	Write short note on Backup & Recovery.	[6]
[7E7	033]	Page 2 of 3 [598	30]

Q.5 Write technical notes on-

 $[4 \times 4 = 16]$

- (a) Tuning Data Warehouse
- , (b) Testing Data Warehouse
- (c) Data Mining Interface
- (d) Data Mining Security

Г	Roll No	Total No of Pages: 3
7E7034	Computer S	7E7034 n/Back) Exam., Nov. – Dec 2017 Science & Engineering ter Aided Design for VLSI
Time: 3 H	Iours	Maximum Marks: 80 Min. Passing Marks: 26
Atten carry data Units Use	y equal marks. Schematic diagn you feel missing suitably be as s of quantities used/calculated of following supporting m	
(<i>Mer</i>	ntioned in form No. 205)	2. NIL
Q.1 (a)		NIT-I circuit and optimization? Explain its need and
	process.	[8]
(b)	What are the four phases of d	designing micro electronic chips using computer
	aided synthesis and optimization	n? Explain them. [8]
		<u>OR</u>
Q.1 (a)	Explain the design flow process	s of microelectronic circuit with diagram. [8]
(b)	What is Moore's law? Explain	the design styles for circuits. [8
[7E7034	Pa	age 1 of 3 [5660]

[7E7034]

<u>UNIT-II</u>

Q.2	Explain ITE algorithm with an example.	[16]
	<u>OR</u>	
Q.2	What is binary decision diagram? Explain ROBDD algorithm with an example.	[16]
	· <u>UNIT-III</u>	
Q.3	Explain ASAP and ALAP Scheduling algorithm with an example.	[16]
	<u>OR</u>	
Q.3	(a) Write short note on force directed and Multiprocessor scheduling.	[8]
	(b) Discuss the classification of constraints and resource with suitable example.	[8]
	<u>UNIT-IV</u>	
Q.4	State the principles of two level logic optimization and explain the operation on	two
	level logic covers.	[16]
	<u>OR</u>	
Q.4	(a) Explain resource sharing and resource binding. What are compatibility	and
•	conflict graphs?	[8]
4	(b) Discuss the exact logic minimization with an example.	[8]
[7E7(Page 2 of 3 [5660]

<u>UNIT-V</u>

Q.5	Exp	lain left edge algorithm with an exam	ple.		[16]
		<u>O</u> 1	<u>R</u>	2	
Q.5	Wri	te short notes on the following:			*
	(a)	Clock routing and power routing.			[8]
	(b)	Floor planning.			[8]
			S		

	Roll No.		Total No of Pag	ges: 3
7E7035	B. Tech. V	7E7035 II Sem. (Main/Back) Ex Computer Science & 1 7CS5A Compiler Co	Engineering	017
Time: 3	Hours		Maximum M Min. Passing M	
Atte carr date Uni Use	ry equal marks. S a you feel missing its of q uantities us	stions, selecting one questing one questing one questing chematic diagrams must be a suitably be assumed and selections of the state of	e shown wherever neces stated clearly. ed clearly.	sary. Any
1. <u>NIL</u>			NIL	-
No.		<u>UNIT-I</u>		
Q.1 (a)	Discuss data stru	uctures used by a compiler.		[3]
(b)	Draw and discus	ss phases of a compiler.		[10]
(c)	State the differe	nce between compiler and Int	terpreter.	[3]
		OR		
Q.1 (a)	What do you un	nderstand by optimization of c	compiler.	[4]
(b)	Define ambigui	ty of grammar with suitable e	example.	[4]
(c)	Discuss various	s error recovery techniques fo	r a lexical analysis.	[4]
(d)) What do you ur	nderstand by loop optimizatio	n, and how it is done?	[4]
[7E703	5]	Page 1 of 3		[5580]

UNIT-II

Q.2 Construct LALR parsing table for the following grammar: -[16] $S \rightarrow A A$ $A \rightarrow aAlb$ OR Q.2 Consider the grammar and Test whether the grammar is LL (1) or Not. $S \rightarrow |AB| \in$ $A \rightarrow |AC|OC$ $B \rightarrow OS$ $C \rightarrow 1$ **UNIT-III** Q.3 Generate Three Address Code for following code:-(a) a = b * c + b * d: [6] (b) if (a < b + c)[10] a = a - c; c = b * c; OR Q.3 Generate Three Address Code for following code:-Void main () int a; a = 0; while (a < 10) { Print (a % 2 = = 0); a = a + 1; } [16] [7E7035] Page 2 of 3

[5580]

UNIT-IV

Q.4	Disc	cuss symbol table with following subcategories:
	(a)	Basic operations on symbol table [5]
	(b)	Implementation of symbol table [8]
	(c)	Data structure used in symbol table [3]
		<u>OR</u>
Q.4	Imp	lement a symbol table with help of Hash table and functions. Also discuss how
	coll	isions are resolved in open addressing. [16]
		<u>UNIT-V</u>
Q.5	Wri	te short notes on following: - [8×2=16]
	(a)	Advantages of DAG
	(b)	Global Data Flow analysis
		<u>OR</u>
Q.5	(a)	Sources of optimization [8]
	(b)	Code Generation from DAG [8]

7E7038 B. Tech. VII Sem. (Main/Back) Exam., Nov. - Dec. - 2017 **Computer Science & Engineering 7CS6.3A Data Compression Techniques Maximum Marks: 80 Time: 3 Hours Min. Passing Marks: 26** Instructions to Candidates: Attempt any five questions, selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly. Use of following supporting material is permitted during examination. (Mentioned in form No. 205) 2. NIL 1. NIL **UNIT-I** Q.1 (a) What is data compression and why we need it? Explain compression and [8] reconstruction with the help of block diagram. [8] (b) What is Kraft - Mc Millan inequality? OR Consider a source with a six symbol alphabet a₁, a₂, a₃, a₄, a₅, a₆ with Q.1 (a) [12] probabilities P_1 = 0.02 P_2 0.01 = P_3 0.35 P_4 0.38 = 0.02 P5 = 0.04 P_6

Page 1 of 3

Roll No.

[7E7038]

Total No of Pages: 3

[1740]

		(i) Find the entropy of this source.	
		(ii) Find the Huffman code for this source.	
		(iii) Compute the expected code length of this Huffman code.	
	(b)	How modeling and coding are related? Explain with help of example.	[4]
		<u>UNIT-II</u>	
Q.2	(a)	What is dictionary coding? Compare and construct LZ77 and L	Z55
		algorithms.	[8]
	(b)	Discuss the different application to lossless compression.	[8]
		<u>OR</u>	
Q.2	(a)	Define move to front encoding?	[8]
	(b)	Differentiate T.4 and T.6 facsimile encoding.	[8]
		<u>UNIT-III</u>	
Q.3	(a)	What is Lind-Ruza-Grey algorithm for vector quantization?	[8]
	(b)	Discuss probability and linear system model for lossy coding.	[8]
		<u>OR</u>	
Q.3	(a)	What is scalar quantization?	[8]
	(b)	What is a distortion criteria?	[8]
		<u>UNIT-IV</u>	
Q.4	(a)	Discuss differential encoding.	[8]
	(b)	How Delta modulation can be used for speech and image coding.	[8]
[7E7	038]	Page 2 of 3 [1740	0]

Q.4	Writ	te short note on any two	[8+8=16]
	(a)	DCT	
	(b)	DST	
	(c)	DWHT	
	(d)	Z – transform	
		<u>UNIT-V</u>	
Q.5	(a)	Discuss the basic algorithm for sub-band coding.	[8]
	(b)	Explain multi-resolution analysis & scaling function of wavelets.	[8]
		<u>OR</u>	
Q.5	Wri	ite short note on any two-	[8+8=16]
	(a)	G.7222	
	(b)	Design of filter bank	
	(c)	Wavelet based compression.	
ř			

	F	toll No Total No of Pages:	3
7E4241		7E4241 B. Tech. VII Sem. (Back) Exam., Nov. – Dec 2017 Computer Science & Engineering 7CS5 (O) Computer Graphics and Multimedia Technique	es
 Time	: 3 H	lours Maximum Mar Min. Passing Mar	2 2 2
	Atten carry data Units Use	ns to Candidates: upt any five questions, selecting one question from each unit. All question marks. Schematic diagrams must be shown wherever necessary you feel missing suitably be assumed and stated clearly. If of quantities used/calculated must be stated clearly. If of following supporting material is permitted during examinationed in form No. 205)	ry. Any
1. NI		2. <u>NIL</u>	_
		<u>UNIT-I</u>	
Q.1	(a)	Describe the Raster Scan Display and Random Scan Display.	[8]
	(b)	Explain interactive display devices in Computer Graphics.	[8]
		<u>OR</u>	
Q.1	(a)	Explain the DDA Line Drawing Algorithm with example.	[8]
2	(b)	Describe about the Aliasing and Anti Aliasing Techniques.	[8]
		<u>UNIT-II</u>	
Q.2	(a)	Describe the Translation & Scaling in 2 Dimensional Coordinate System.	[8]
	(b)	Explain the Flood Fill Algorithm for Polygon Filling.	[8]
[7E4	4241]	Page 1 of 3	[900]

Q.2	(a)	Describe Cohen - Sutherland Line Clipping Algorithm.	[8]
	(b)	Explain General Pivot-Point Rotation in 2 dimensional Coordinate System	n. [8]
		<u>UNIT-III</u>	
Q.3	(a)	Explain Image Space & Object Space. Describe the Depth Buffer Method	l. [8]
	(b)	Describe the Scan Line Algorithm.	[8]
		<u>OR</u>	
Q.3	(a)	Explain the Parametric and Non – Parametric representation of Curves.	[8]
	(b)	Explain Bezier Curve with suitable diagram.	[8]
		<u>UNIT-IV</u>	
Q.4	(a)	Explain the Basic illumination Model for Rendering.	[8]
	(b)	Describe the Phong Shading & Gourand Shading.	[8]
		<u>OR</u>	
Q.4	(a)	Explain the Diffuse Reflection & Specular Reflection.	[8]
	(b)	Describe Ray Tracing & RGB Color Model.	[8]
*		<u>UNIT-V</u>	¥
Q.5	(a)	Define the Multimedia & State the Components of Multimedia.	[8]
	(b)	Describe the various File Formats.	[8]
[7E	4241]	Page 2 of 3	[900]

Q.5 Write Short Note on the following-

 $[4 \times 4 = 16]$

- (a) Storage & Retrieval Technologies
- (b) Animation Techniques
- (c) MIDI
- (d) MPEG

[7E4241]

Page 3 of 3

[900]

Total No of Pages: 3 Roll No. 7E4237 B. Tech. VII Sem. (Back) Exam., Nov. - Dec. - 2017 **Computer Science & Engineering** 7CS1 (O) Software Project Management **Maximum Marks: 80 Time: 3 Hours** Min. Passing Marks: 26 Instructions to Candidates: Attempt any five questions, selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly. Use of following supporting material is permitted during examination. (Mentioned in form No. 205) 2. NIL 1. NIL **UNIT-I** Q.1 (a) Explain the terms project, program, portfolio and management related to project [10] management. Define a project. What are the different stages of project? [6] (b) OR What is W⁵HH Principle? Define its importance. [8] Q.1 (a) What do you mean by organizing a software engineering project? Explain in brief (b)

[8]

the organizing activities for software project.

UNIT-II

Q.2	Но	w is software project estimation done? What features come	under thi
	esti	mation?	[16
		<u>OR</u>	
0.2	Wh	at is empirical estimation? Explain COCOMO with the help of	
			appropriate
	exa	mple.	[16]
		<u>UNIT-III</u>	
Q.3	(a)	What is Product Scheduling? Explain earned value analysis related	d to project
		scheduling.	[10]
	(b)	What is used of tasks set and tasks network? Explain with example.	[6]
		<u>OR</u>	
Q.3	(a)	Explain earned value analysis in brief.	[8]
	(b)	Differentiate between Reactive v/s Proactive risk strategies.	[4]
	(c)	How are risks identified?	[4]
		<u>UNIT-IV</u>	
Q.4	Exp	lain Software quality in detail.	[16]
		<u>OR</u>	[10]
Q.4	Exp	ain the following:	[4×4=16]
	(a)	SQA Architecture	
	(b)	SCM Process	
	(c)	Formal Technical Reviews	
	(d)	Software Configuration Management Repository	*
754	2251		
/E4	237]	Page 2 of 3	[720]

<u>UNIT-V</u>

Q.5	(a)	Explain Controlling Changes	s to a projec	ct requirement				[8]
	(b)	What is NAH Syndrome?	How can	organization	overcome	from	the N	IAH
		Syndrome?				9		[8]
			OR					
Q.5	Shor	rt notes on:					[4×4:	=16]
	(a)	Closure analysis		. *				
	(b)	Review process					8	
	(c)	Monitoring causality						
	(d)	Risk related monitoring						

7E4238

Roll No.

Total No of Pages: 3

7E4238

B. Tech. VII Sem. (Back) Exam., Nov. – Dec. - 2017 Computer Science & Engineering 7CS2 (O) Wireless Communication & Networks CS, IT

Time: 3 Hours

Maximum Marks: 80 Min. Passing Marks: 26

Instructions to Candidates:

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.

Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. NIL

2. NIL

UNIT-I

- Q.1 (a) Differentiate between 2G and 3G networks. What factors have caused the need to determine 3G?
 - (b) What do you understand by the term crosstalk? Explain their different types. [8]

<u>OR</u>

- Q.1 (a) What is Handoff? What do you understand by the terms: Soft hand off, Hard hand off, and Umbrella cell handoff approach? [8]
 - (b) Explain the concept of cell cluster. Also explain cell splitting and cell sectoring. [8]

[1120]

UNIT-II

Q.2	(a)	What is CSMA? Differentiate between collision detection and collision	n
		avoidance.	8]
	(b)	With the help of a diagram explain the working of GPRS.	8]
		<u>OR</u>	
Q.2	(a)	Explain the concept of GSM system. Also explain its key features & services. [8]	3]
	(b)	Explain VLR & HLR database approach in GSM. How does this approach lim	it
		the scalability among moving users? Where they are physically located?	3]
		<u>UNIT-III</u>	
Q.3	(a)	Explain the IEEE 802.11 MAC data frame structure.	3]
	(b)	What are infrastructure & ad-hoc based networks? Also differentiate between	n
		them.	3]
		. <u>OR</u>	
Q.3	(a)	What is Bluetooth technology? Explain the IEEE 802.15.1 Bluetooth fram	e
		format.	3]
	(b)	Discuss all the security modes and security levels in Bluetooth technology. [8	3]
		<u>UNIT-IV</u>	
Q.4	(a)	Explain the concept of mobile IP. List the entities of mobile IP and also describ	e
		the data transfer from mobile node to a fixed node. [8]
	(b)	What is DHCP? Explain the basic DHCP configuration and its application. [8]
[7E4	238]	Page 2 of 3 [1120]	

Q.4	(a)	Explain the concept of Mobile TCP. Also explain Indirect TCP and snooping
		TCP. [8]
	(b)	Briefly explain AODP protocol. How is it different from distance vector
		protocol? [8]
		<u>UNIT-V</u>
Q.5	(a)	What is World Wide Web? Briefly explain its architectural model. [8]
	(b)	Discuss file systems in mobile environment. Briefly explain the coda file
		system. [8]
		<u>OR</u>
Q.5	(a)	What is Wireless Application Protocol? Explain the components and interface of
		the WAP 1.× architecture. [8]
	(b)	Write notes on the following terms: HTTP and HTML [8]

	Roll No.	Total No of F	Pages: 3
52		7E7052	
7E7052	Infor	in/Back) Exam., Nov. – Dec mation Technology nternet Programming	2017
Time: 3	Hours	Maximum Min. Passing	
Instruction	ons to Candidates:		
		ing one question from each unit. Al	
		grams must be shown wherever necessary	essary. Any
	a you feel missing suitably be a ts of quantities used/calculated		
		material is permitted during ex	camination.
	entioned in form No. 205)		
1. NIL		2. NIL	
		UNIT-I	
Q.1 (a)	Write the XHTML code for be	low given diagram using the attributes	of WIDTH,
	ALIGN, BORDER, and CELL	PADDING of the <table> tag.</table>	[8]
	Emplo	yee Information	1.00
	Name	Bill Gates	
	Telephone	55577854	
		55577855	
(b)	What is CSS Box Model? Exp	lain with suitable example.	[8]
		<u>OR</u>	
Q.1 Ex	plain the following with example		
(a)	Order and Unordered list		[8]
(b)	External style sheet		[8]

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[1320]

<u>UNIT-II</u>

Q.2	(a)	What is Java script? Explain the Advantages of Java Scripts.	[8
	(b)	Write a Java script program to find the greatest integer number among the	nre
		numbers using function and math object. Integer numbers should be read fi	
		keyboard.	[8]
		<u>OR</u>	
Q.2	(a)	What is Document Type Definition (DTD)? How is it useful for validation	ting
		XML? Explain with suitable example.	[8]
	(b)	Write short notes on-	
		(i) DOM	[4
		(ii) RSS	[4
		<u>UNIT-III</u>	
Q.3	(a)	Describe the difference between traditional web applications and Ajax based v	vet
		applications.	[8]
	(b)	Explain an example of Ajax using the XML Http Request Object.	[8]
		<u>OR</u>	
Q.3	Writ	te down about the following-	
	(a)	Client side scripting versus server side scripting.	[8]
	(b)	Dojo toolkit	[8]
		<u>UNIT-IV</u>	
Q.4	(a)	What do you mean by cookies? Explain the uses of cookies in v	veb
		applications.	[8]
	(b)	Write a PHP program to store page view count in session, to increment the co	unt
		on each refresh, and to show the count on web page.	[8]
		<u>OR</u>	
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Q.4	(a)	What is ASP.NET? What is the basic difference between ASP and ASP.NET	Γ?
		Explain the provider model for ASP.NET 2.0.	[8]
	(b)	How connectivity to a database is performed in ASP.NET? Explain all t	he
		steps.	[8]
		<u>UNIT-V</u>	
Q.5	Exp	plain the process of creating and running applications in Net Beans.	16]
		<u>OR</u>	
Q.5	Wı	ite short notes on following-	
	(a)	Session tracking in java web technology	[8]
	(b)	JSF components	[8]

Total No of Pages: 3 Roll No. 7E7053 B. Tech. VII Sem. (Main/Back) Exam., Nov. - Dec. - 2017 **Information Technology** 7IT5A Computer Graphics & Multimedia Techniques **Maximum Marks: 80 Time: 3 Hours** Min. Passing Marks: 26 Instructions to Candidates: Attempt any five questions, selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly. Use of following supporting material is permitted during examination. (Mentioned in form No. 205) 2. NIL 1. NIL **UNIT-I** What is graphics? Explain the Raster Scan Display System with diagram. [8] Explain programmer's model for interactive graphics & also explain the [8] problems in geometry. OR [8] What is Bresenham's line generation algorithm? Explain. Q.1 (a) [8] Explain Aliasing & Anti Aliasing algorithm. (b) **UNIT-II** [8] What is clipping? Explain polygon clipping. Q.2 (a) [8] What is translation, rotation & scaling? Explain with examples. [1320] Page 1 of 3 [7E7053]

Q.2	(a)	Write down composite transformation & inverse transformation.	[10
	(b)	Explain Boundary filling in detail.	[6
		<u>UNIT-III</u>	
Q.3	(a)	Explain the Depth Buffer Method.	[6]
	(b)	Write down Scan Line Algorithm & Area Based Algorithm in brief.	[10]
		<u>OR</u>	
Q.3	(a)	What is Bexier curves? Define B – Spline curve in brief.	[8]
	(b)	What is the meaning of parametric & non parametric representation	n of
		curves?	[8]
		<u>UNIT-IV</u>	
Q.4	(a)	What is the basic model of illumination model & diffuse reflection? Explain.	[8]
	(b)	Explain in brief color models with examples.	[8]
		<u>OR</u>	
Q.4	Writ	te short note on :	
	(a)	Ray tracing algorithms	[4]
	(b)	Half zoning	[4]
	(c)	HSV color model	[4]
	(d)	Phone shading	[4]
[7E7	053]	Page 2 of 3 [1320)]

UNIT-V

Q.5	(a)	What is multimedia input / output technologies? Explain.	[8]
	(b)	Which type of considerations in Architectural & telecommunication?	[8]
		<u>OR</u>	
Q.5	(a)	Explain Animation & animation techniques.	[8]
	(b)	What is MPEG & JPEG? Explain.	[8]

Roll No.	т	otal No of Pages: 3
7E7054 B. Tech. VII S	7E7054 Sem. (Main/Back) Exam., Nov. Information Technology 7IT6.2A Intelligent Systems	– Dec 2017
Time: 3 Hours		aximum Marks: 80 Passing Marks: 26
Instructions to Candidates:		
	ns, selecting one question from each	
carry equal marks. Šėhe	matic diagrams must be shown when	rever necessary. Any
data you feel missing su	itably be assumed and stated clearly	
Units of quantities used	calculated must be stated clearly.	
Use of following sup	oporting material is permitted a	luring examination.
(Mentioned in form No.	205)	
1. NIL	2. <u>NIL</u>	
	<u>UNIT-I</u>	
Q.1 (a) What do you under	stand by Intelligent system? What are	the various intelligent
systems available ar	nd how are these different from conven	tional computing? [8]
(b) Explain knowledge	organization and manipulation.	[8]
	OR	
Q.1 Define LISP and PROL	OG. Discuss their significance in mad	chine learning, variou
advantages and disadvan	tages while studying intelligent system	s. [16
(mmg054)	Page 1 of 3	[520]
[7E7054]	rage I of 3	[0=0]

[7E7054]

<u>UNIT-II</u>

Q.2	(a)	Explain Fuzzy logic and Natural language computations.	3]
	(b)	What do you understand by inference rules? Explain non- deductive inference	e
		model.	3]
•		<u>OR</u>	
Q.2	(a)	Explain Probabilistic learning in detail.	3]
	(b)	What are the conventional methods of knowledge representation? State an	d
		explain various rules for representation.	[]
		<u>UNIT-III</u>	
Q.3	Disc	cuss various structures and strategies for State Space Search. [16]
		<u>OR</u>	
Q.3	Wha	at do you understand by Knowledge Organization and Management? Explain in	n
	deta	il. [16]
		<u>UNIT-IV</u>	
Q.4	Wha	at do you understand by Knowledge System Architecture? State and explain in	1
	deta	il. [16]
		<u>OR</u>	
Q.4	(a)	Explain Non Production Rules [8]
	(b)	Explain Uncertainty Knowledge [8]
[7E7	054]	Page 2 of 3 [520]	

UNIT-V

Q.5	(a)	What do you understand by knowledge acquisition? Explain in detail.	[8]
	(b)	What is knowledge acquisition bottleneck? Explain.	[8]
		<u>OR</u>	
Q.5	(a)	What do you understand by learning by induction? Explain its purpose.	[8]
	(b)	Explain Inductive learning methods and learning decision trees.	[8]