Total No of Pages: 3 Roll No. 7E7036 B. Tech. VII Sem. (Main / Back) Exam., Nov. – Dec. - 2018 **Computer Science & Engineering** 7CS6.1A /7IT6.1 (O) Advance Database Management **Systems** CS (Old & New) IT (Old) **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. <u>NIL</u> 1. NIL **UNIT-I** Define query optimization and explain its significance for DBMS. [8] Q.1 (a) Explain the term system catalog. Also explain how catalog are stored? [8] (b) OR Explain the role of relational algebra equivalences in query optimization. [8] Q.1 (a)  $[4 \times 2 = 8]$ Write short note on: . (b) (i) Cost of plan estimation

[4700]

(ii) Enumeration of alternative plan

## UNIT- II

Q.2	(a)	Compare ORDBMS and OODBMS with various database system? [8]					
	(b)	Discuss and design differences of a relational database and an object					
		database. [8]					
		<u>OR</u>					
Q.2	(a)	What are different structured data types available in object database system? [8]					
	(b)	Write short note on – $[4\times2=8]$					
		(i) ORDBMS implementation challenges					
		(ii) Encapsulation and ADT's					
	<u>UNIT- III</u>						
Q.3	(a)	What is distributed DBMS? Explain its architecture? [8]					
	(b)	How can we evaluate and optimize queries over distributed data? [8]					
		<u>OR</u>					
Q.3.	(a)	What is concurrency control? What are the recovery techniques to overcome					
		from concurrency? [8]					
	(b)	Write short note on – [4×2=8]					
		(i) Distributed catalog management					
		(ii) Parallel query optimization					

## **UNIT-IV**

Q.4	(a)	What is database security? Explain secrecy, integrity and availability	y within
		database security.	[8]
	(b)	Explain the DOD security levels for database system.	[8]
		<u>OR</u>	
Q.4	(a)	Explain the role of the database administrator with respect to security?	[8]
	(b)	Write short note on –	[4×2=8]
		(i) Access control	
		(ii) Security in statistical database	
		UNIT- V	
Q.5	(a)	What is POSTGRES user interface? Explain its architecture.	[8]
	(b) .	Explain in brief query processing optimization and system architecture.	[8]
		<u>OR</u>	
Q.5	(a)	Explain transaction management with various key notation.	[8]
	(b)	Write short note on –	$[4 \times 2 = 8]$
		(i) Types of XML documents	
		(ii) XML applications	
		8	

\*\*  7E4241

Roll No.

Total No of Pages: 3

#### 7E4241

B. Tech. VII Sem. (Back) Exam., Nov. – Dec. - 2018 Computer Science & Engineering 7CS5 (O) Computer Graphics and Multimedia Techniques

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. <u>NIL</u>

2. NIL

#### UNIT-I

Q.1 (a) Explain storage cathode ray tube with neat diagram.

[8]

(b) Describe the steps in Mid-Point circle algorithm.

[8]

#### <u>OR</u>

Q.1 (a) What is scan conversion? What are the major disadvantages of scan conversion?

(b) Write short notes on the following -

 $[2 \times 4 = 8]$ 

- (i) Flicking
- (ii) Interactive display
- (iii) Resolution
- (iv) Display Processor

[7E4241]

Page 1 of 3

[580]

# <u>UNIT-II</u>

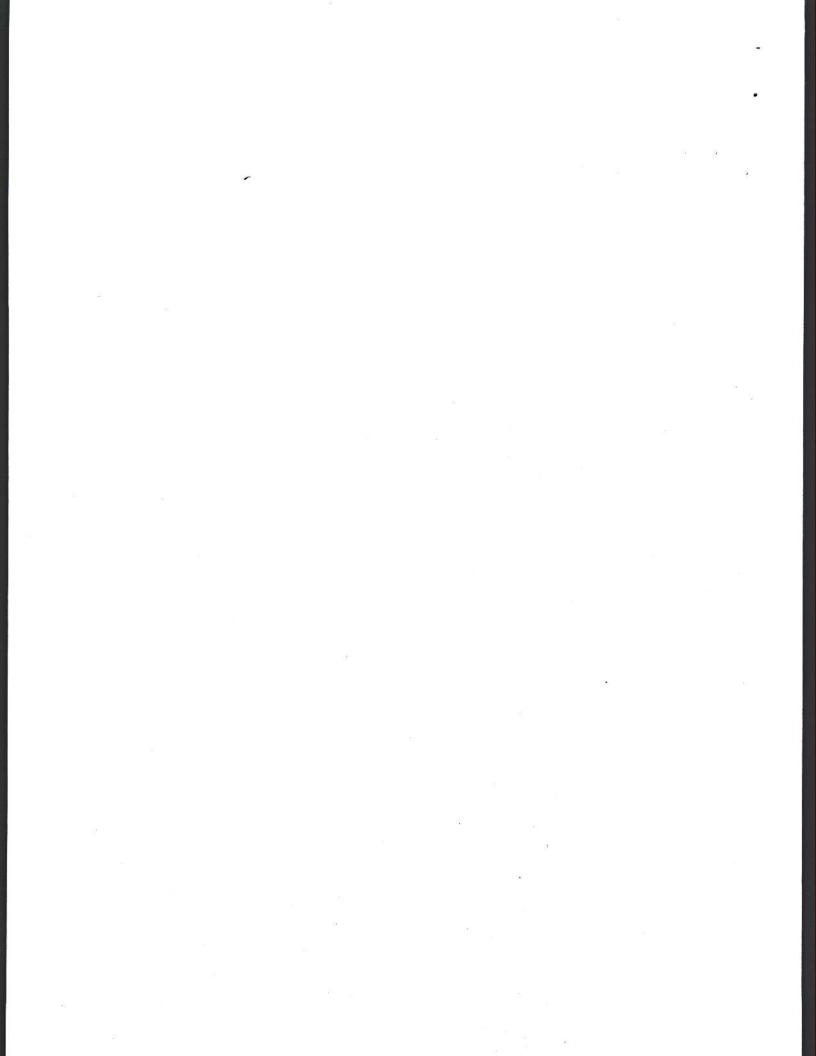
).2	(a)	Define composite transformation? Explain it with the help of example.		[8]	
	(b)	Define Boundary fill algorithm with the help of example.		[8]	
		$\underline{\mathbf{OR}}$			
2.ي	(a)	What is the role of homogeneous coordinates in 2D transformation? Exp	olain v	with	
		the help of example.		[8]	
	(b)	Define & explain the following by giving example.	[4×2	2=8]	
		(i) Point Clipping			
		(ii) Line Clipping			
		<u>UNIT- III</u>			
Q.3	(a)	Explain B – Spline curve in detail.		[8]	
	(b)	Describe Area based algorithm.		[8]	
		$\underline{\mathbf{OR}}$			
Q.3	(a)	Differentiate Image space method and Object space method.		[8]	
	(b)	Write short notes on the following -	[4×2	2=8]	
		(i) Non – Parametric representation			
		(ii) Bezier curve		197	
		UNIT- IV			
Q.4	(a)	What do you mean by CMY color model? Differentiate it with R	kGB (	color	
		model.		[8]	

Page 2 of 3

[7E4241]

[580]

e <b>™</b> 8	(b)	Write short notes on the following -	$[4 \times 2 = 8]$
		(i) Ray tracing	
		(ii) Gouraud Shading	
		<u>OR</u>	
Q.4	(a)	Describe simple recursive ray tracing without antialiasing.	[8]
	(b)	Write short notes on the following:	[8]
		(i) Diffuse reflection	
		(ii) HSV	
		<u>UNIT- V</u>	
Q.5	(a)	What do you mean by Multimedia? Explain its techniques in detail.	[8]
	(b)	Explain the following -	[4×2=8]
		(i) TIFF	
		(ii) SCSI	
<b>\$</b> 7		<u>OR</u>	
Q.5	(a)	What are the different types of data compression technique? Explain it.	[8]
	(b)	What do you mean by animation? Explain it's steps in detail.	[8]



7E4238

Roll No.

Total No of Pages: 3

### 7E4238

B. Tech. VII Sem. (Back) Exam., Nov. – Dec. - 2018 Computer Science & Engineering 7CS2 (O) Wireless Communication & Networks Common with 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) What is multipath and fading? Explain the effect of multipath and fading in mobile communication. [10]
  - (b) Explain cell splitting and cell sectoring. Explain the concept of cell cluster. [6]

#### <u>OR</u>

Q.1 (a) Compare 1G, 2G and 3G.

[6]

(b) What is Hand off? Compare soft hand off, hard hand off and umbrella cell hand off approach? [10]

#### **UNIT-II**

- Q.2 (a) Explain GPRS Architecture Reference model with suitable diagram. [8]
  - (b) What is CSMA? Differentiate between collision detection and collision avoidance. [8]

[720]

### <u>OR</u>

Q.2	(a)	Differentiate between exposed node problem and Hidden node problem in
		wireless communication? How it can be solved? [8]
	(b)	Compare Aloha, CSMA and DAMA? [8]
		UNIT-III
Q.3	(a)	What is Bluetooth Technology? Explain the IEEE 802.15.1 Bluetooth frame
		format. [8]
	(b)	Describe the important features of wireless LAN technology. [8]
		<u>OR</u>
Q.3	(a)	Explain the terms with respect to IEEE 802.11 LAN standard – [8]
		(i) Access point
		(ii) Distributed system
		(iii) Extended service set
		(iv) Basic service set
	(b)	Describe the MAC management and its function. [8]
		UNIT- IV
Q.4	(a)	Explain the concept of Mobile TCP. Also explain Indirect TCP and snooping
		TCP. [8]
42	(b)	Explain the following terms with respect to mobile IP entities – [8]
		(i) Home address
		(ii) Home network
		(iii) Foreign Agent
39 29		(iv) Home Agent

### <u>OR</u>

Q.4	(a)	What	is tl	he	difference	between	AODV	and	standard	distar	ice ve	ector
		Algorit	hm?									[8]
	(b)	What is	DH	CP?	Explain the	e basic DH	CP config	guratio	n and its a	oplica	tion?	[8]
				49		UNIT	<u>- V</u>					
Q.5	(a)	What is	s WA	P p	ush? How i	s push diff	erent fron	n pull?				[8]
	(b)	Discuss	s file	e sy	stem in n	nobile env	rironment.	Brief	fly explair	the	Coda	File
		System		8			**					[8]
						<u>OR</u>						
Q.5	Writ	e the sho	ort no	otes	on the follo	owing – (ar	ny four)				[4×4	=16]
	(a)	HTML							Tr Cc			
	(b)	HTTP										
	(c)	WML S	Scrip	t			福					
	(d)	WWW										
	(e)	WAP										
						5 						

Page 3 of 3 [720]

**v** = \*

[5560]

		Roll No Total No	of Pages: 2
767021	/E/031	7E7031 B. Tech. VII Sem. (Main / Back) Exam., Nov. – De Computer Science & Engineering 7CS1A Cloud Computing	c 2018
Time	e: 3 l	Hours	m Marks: 80 ng Marks: 26
Instr	Atter carr data Unit Use	ons to Candidates: mpt any five questions, selecting one question from each unitary equal marks. Schematic diagrams must be shown wherever not you feel missing suitably be assumed and stated clearly.  Its of quantities used/calculated must be stated clearly.  Its of following supporting material is permitted during entioned in form No. 205)	ecessary. Any
1. <u>N</u> ]	<u> </u>	2. <u>NIL</u>	
		<u>UNIT-I</u>	
Q.1	(a)	Explain the various features, characteristics and components of cl	oud computing
		system.	[8]
	(b)	Explain briefly about who get benefits from cloud computing.	[8]
		$\underline{\mathbf{OR}}$	
Q.1	(a)	Explain the types of cloud service development in detail.	[8]
	(b)	Explain Ethical issues in cloud computing.	[8]
		<u>UNIT-II</u>	
Q.2	(a)	Explain the architecture of cloud computing in detail.	[10]
	(b)	Explain parallel and distributed programming paradigms in cloud	computing. [6]
		<u>OR</u>	
Q.2	(a)	Explain models of cloud computing in detail.	[8]
	(b)	Explain Google APP engine.	[8]

Page **1** of **2** 

[7E7031]

[7E7031]

### UNIT-III

		The state of the s
Q.3	(a)	What is Network Virtualization? Describe the various components in Network
		Virtualization. [8]
	(b)	Explain virtualization tools and mechanisms. [8]
		<u>OR</u>
Q.3	Writ	the short notes - $[4\times4=16]$
	(a)	KVM
	(b)	Memory
	(c)	I/O devices
	(d)	Virtualization of data – center
		UNIT- IV
Q.4	(a)	Explain Security Policies for cloud computing. [8]
	(b)	Explain cloud computing Security Architecture. [8]
		$\underline{\mathbf{OR}}$
Q.4	Wri	te short notes – $[4\times4=16]$
	(a)	BCP
	(b)	SLA
	(c)	Trust management
	(d)	Threats in cloud
		<u>UNIT- V</u>
Q.5	(a)	What are the features of Amazon Simple DB? [8]
	(b)	Explain the data analysis application of cloud computing. [8]
		$\mathbf{OR}$
Q.5	Exp	lain –
	(a)	CRM and ERP [5]
	(b)	Federated Cloud [5]
	(c)	Business Application for Cloud [6]

Page 2 of 2

[5560]

	AI
	2
	C
	0
	7
ĺ	7-3
	1
L	
- 76	me:

Roll No.

Total No of Pages: |3

### 7E7032

B. Tech. VII Sem. (Main / Back) Exam., Nov. - Dec. - 2018 **Computer Science & Engineering** 7CS2A Information System Security Common with CS, IT

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

Explain Shannon's theory of confusion and diffusion in detail. Q.1 (a)

[10]

What is substitution ciphers? Explain. (b)

[6]

#### OR

Q.1 (a) What is Feistel block cipher? How it is worked?

[6]

(b) What is Cryptanalysis? Explain stream ciphers and block ciphers with suitable

example.

[10]

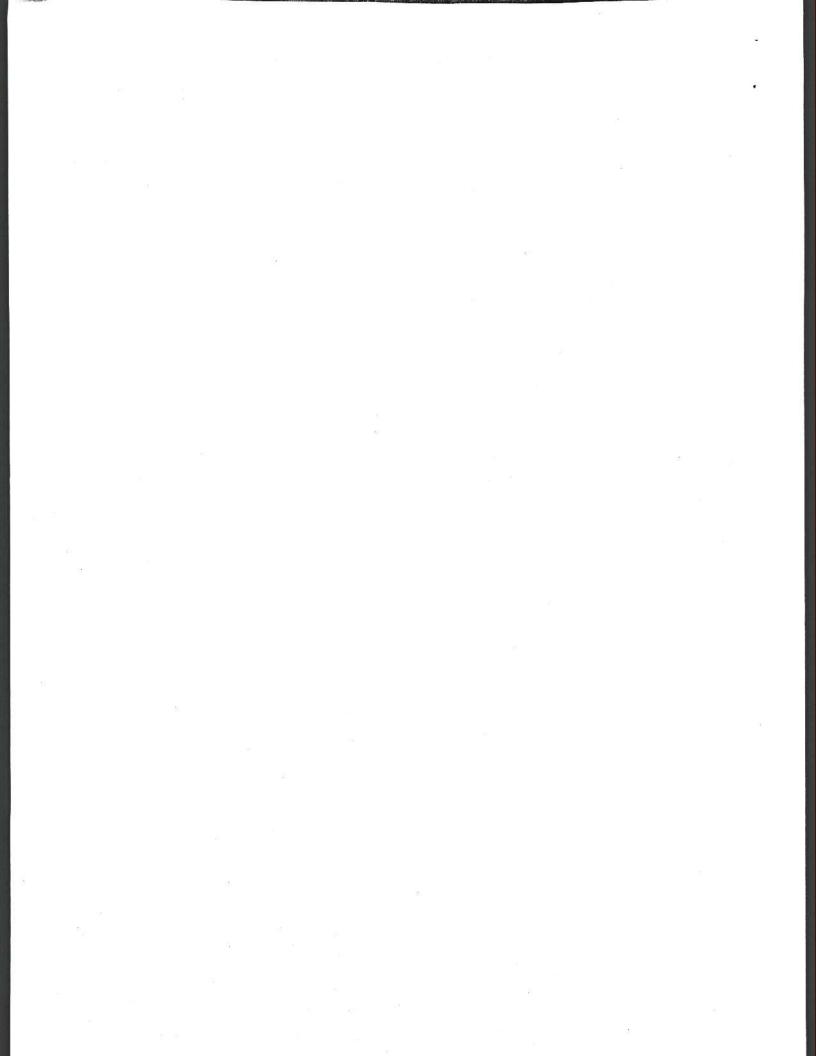
# <u>UNIT-II</u>

Q.2	(a)	Explain the role of propagation and non-linearity in information theory.	[8]
	(b)	Describe substitution box in detail. Why is it so important?	[8]
		<u>OR</u>	
Q.2	(a)	How many Boolean functions are there with domain $x^n$ {0, 1}?	[6]
	(b)	Explain the encryption and decryption process of AES with	suitable
		example.	[10]
		UNIT- III	
Q.3	(a)	What is the man in the middle attack problem in Diffie Hellman key e	exchange
		algorithm? Explain with example.	[8]
	(b)	Use the modular exponential algorithm to calculate 4 <sup>2</sup> mod 8.	[4]
	(c)	Write short note on public key.	[4]
		<u>OR</u>	
Q.3	(a)	Explain the format of X. 509 authentication certificate.	[8]
	(b)	Write short note on -	
	**	(i) Security of R S A	[4]
		(ii) Discrete logarithm	[4]

[6400]

# <u>UNIT- IV</u>

Q.4	(a)	What is digital signature? Explain R S A based digital signature.	[8]
	(b)	What is Birthday attack? Explain Brute - force attacks on Hash function.	[8]
		<u>OR</u>	
Q.4	(a)	Describe Massage authentication code. How it is different from encryption?	[8]
	(b)	Why we need SHA? Explain the working of SHA – 1.	[8]
		UNIT- V	
Q.5	(a)	Explain Lamport's Hash Protocol.	[8]
	(b)	Write short note on -	
		(i) PGP	[4]
		(ii) Encrypted key exchange.	[4]
		$\underline{\mathbf{OR}}$	
Q.5	(a)	Draw the & p security authentication herder and explain the functions of	each
		field.	[8]
	(b)	What encryption algorithm does PGP use? How do we create a PGP file?	[8]



Roll No.

Total No of Pages: 3

### 7E7034

B. Tech. VII Sem. (Main / Back) Exam., Nov. - Dec. - 2018 **Computer Science & Engineering** 7CS4A Computer Aided Design for VLSI

**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) What is Moore's law, locate the present status on it, predict its validity in near future. [8]
  - What is cell based design style? Explain in terms of library binding. (b)

#### OR

- Describe computer aided synthesis and optimization. Q.1 (a) [8]
  - Explain the design flow process of microelectronic circuit with diagram. (b) [8]

[8]

[7E7034]

## UNIT- II

Q.2	(a)	Explain Bryant's reduction algorithm in detail.	[8]				
	(b)	Explain scheduling in pipelined circuit in detail.	[8]				
		OR					
Q.2	Wha	at is binary decision diagram? Explain ROBDD algorithm with an example.	[16]				
		UNIT- III					
Q.3	(a)	Explain the force directed and multiprocessor scheduling.	[8]				
	(b)	What is synchronization problem?	[8]				
		<u>OR</u>					
Q.3	Disc	cuss following scheduling with the help of suitable diagrams:					
	(a)	ASAP	[8]				
	(b)	ALAP	[8]				
		<u>UNIT- IV</u>					
Q.4	Disc	cuss Quine - McCluskey algorithm for two - level logic minimize	zation				
	prob	blem.	[16]				
	<u>OR</u>						
Q.4	(a)	Write short notes on the following -					
	Ð	(i) Binding Variable to Registers	[8]				
	英	(ii) Functions with multivalued logic	[8]				
[7E	7034]	Page 2 of 3 [57	00]				

# <u>UNIT- V</u>

Q.5	.5 Write short notes on -					
	(a)	Floor plan			[8]	
	(b)	Placement			[8]	
			<u>OR</u>	E		
Q.5	Writ	e short notes on -				
	(a)	Global Routing Methods			[8]	
	(b)	Channel Routing Algorithms			[8]	

LO
3
7
E

Roll No.

Total No of Pages: 4

7E7035

B. Tech. VII Sem. (Main / Bank) Exam., Nov. – Dec. - 2018 Computer Science & Engineering 7CS5A Compiler Construction

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. <u>NIL</u>

#### **UNIT-I**

- Q.1 (a) Explain the following terms
  - (i) Translators, Compilers and Interpreters

[4]

(ii) Bootstrapping

[4]

(b) Illustrate the translation of the following statement on all phase of compiler-

A: = B \* C + D / E

#### <u>OR</u>

- Q.1 (a) How can we represent tree as terms? Illustrate your explanation with an example.
  - (b) Explain the various compiler phrases in brief with suitable example.

[8]

### UNIT-II

Q.2	(a)	What do you mean by context free grammar? Give distinction between reg	ular
		and context free grammar and limitations of context free grammar.	[8]
	(b)	Show whether the following grammar is LL(1) or not	[8]
		$E \rightarrow T E / + T E / \varepsilon$	
		$T \rightarrow FT/*FT/\epsilon$	
		$F \rightarrow (E) / id$	
		And explain the model of a predictive parser.	
		<u>OR</u>	
Q.2	Writ	te down a short note on the following –	
	(a)	Operator precedence parser for regular expression.	[4]
	(b)	Difference between bottom up and top down parsing with suitable example.	[4]
	(c)	YACC error handling in LR parser.	[4]
	(d)	Context free grammar.	[4]
		UNIT- III	
Q.3	Writ	e a program to translate an infix expression into postfix form. Also write sy	ntov

directed definition for the same.

[16]

### <u>OR</u>

Q.3	Let (	G be a formal grammar with nonterminal symbol S and I	D, termina	ıl symbol	'b', '0'
	and	'1', start symbol S, and the following production rule.			[16]
		$S \rightarrow bD$			
		$D \rightarrow 0D$			
		$D \rightarrow 1D$			
		$D \rightarrow 0$			
		$D \rightarrow 1$	598		
	(a)	Is G regular? Why (not)?	g, =		
	(b)	Turn G systematically into a finite automation.			
		UNIT- IV			
Q.4	(a)	Explain the various strategies of symbol table creation	and organ	ization.	[8]
	(b)	What are Activation trees and Activation Records?	Explain	the Data	Access
		process without out Nested procedures.			[8]
		<u>OR</u>			
Q.4	Wr	ite short notes on –	FE .		[16]
	(a)	Nesting depth and Access links			
#s.	(b)	Data structures used in symbol table	*		
	(c)	Static versus Dynamic storage allocations			

[7E7035]

### UNIT- V

Construct a DAG for the basic block whose code is given below: [8] Q.5 (a) D := B \* CE := A + BB:=B\*CA:=E-D[8] What is Peephole optimization? Explain it. <u>OR</u> Explain in brief the various issues of design of code generator. [8] Q.5 (a) [8] Explain the basic block and control flow graph. (b)

		Poll No.	Pages: 3
11000	/E/U55	7E7033  B. Tech. VII Sem. (Main / Bank) Exam., Nov. – Dec. Information Technology 7IT3A Data Mining & Ware Housing Common with CS, IT	
			Marks: 80 Marks: 26
	carr data Unit Use	mpt any five questions, selecting one question from each unit. Any equal marks. Schematic diagrams must be shown wherever neck you feel missing suitably be assumed and stated clearly.  Its of quantities used/calculated must be stated clearly.  of following supporting material is permitted during expended in form No. 205)	essary. Any
1. <u>N</u>	IL	2. NIL	
Q.1	(a) (b)	Discuss the concept of hierarchy generation with detailed analysis.  Describe the Data mining functionalities.  OR	[8]

reduction?

(b) What is Data Integration and Transformation?

Q.1 (a) What do you mean by Data Reduction and what are the different process of data

[8]

[8]

[7E7033] Page 1 of 3 [6360]

[7E7033]

## UNIT-II

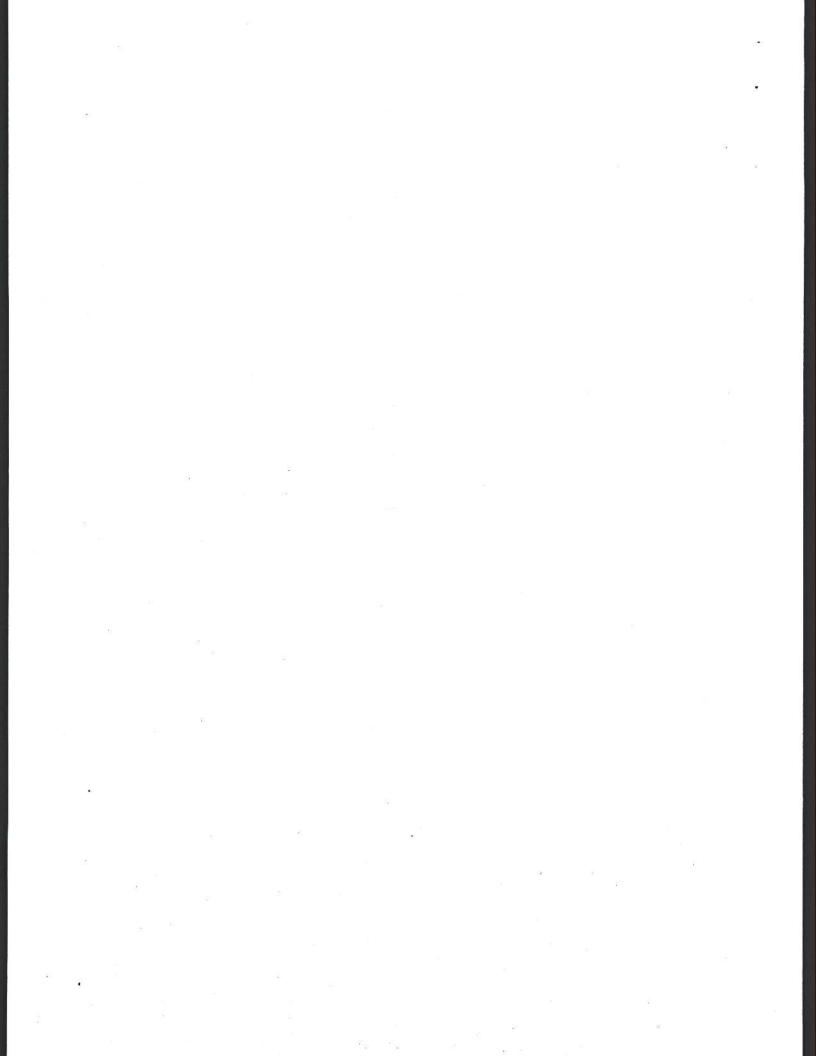
Q.2	2 Explain the concepts of Data Association and Data Generalization in detail along wi				
	analysis of attribute relevance.				
		$\underline{\mathbf{OR}}$			
Q.2	(a)	Explain different graph display of basic statistical class description.	[8]		
	(b)	What is Market Basket Analysis? How is it used? Explain.	[8]		
	2	<u>UNIT- III</u>			
Q.3	(a)	What is Bayesian classification? How it classifies the input data?	[8]		
	(b)	Describe the ID3 algorithm of the decision tree construction.	[8]		
		<u>OR</u>			
Q.3	(a)	What do you mean by information gain and how it is calculated?	[8]		
	(b)	Describe the various types of density based methods and grid based method	s in		
		detail.	[8]		
		UNIT- IV			
Q.4	(a)	What are the steps of planning a Data warehouse?	[8]		
9	(b)	Discuss the Meta data and state, how it is useful?	[8]		
		<u>OR</u>			
Q.4	Expl	ain in brief –			
	(a)	Data warehouse v/s Data mart	[8]		
	(b)	Cube grade problem	[8]		

Page 2 of 3

[6360]

# UNIT- V

Q.5	(a)	Differentiate between ROLAP and MOLAP.	[8]
	(b)	How can we control the aggregation problem and what do you mean	ı by
		denormalization?	[8]
		<u>OR</u>	
Q.5	(a)	Explain Security issues in Data warehousing.	[8]
	(b)	What do you mean by recovery of Data warehouse explain its testing	and
		strategy?	[8]
		/	



		Roll No Total No of Pages: 3
10011	/E/USI	7E7051 B. Tech. VII Sem. (Main / Back) Exam., Nov. – Dec 2018 Information Technology 7IT1A Software Project Management
Tim	e: 3	Hours Maximum Marks: 80
		Min. Passing Marks: 26
Insti		ons to Candidates:
		mpt any five questions, selecting one question from each unit. All questions
		ry equal marks. Schematic diagrams must be shown wherever necessary. Any
		you feel missing suitably be assumed and stated clearly.
		ts of quantities used/calculated must be stated clearly.
		of following supporting material is permitted during examination.
	(Me	ntioned in form No. 205)
1. <u>N</u>	IL	2. <u>NIL</u>
		<u>UNIT- I</u>
Q.1	(a)	What is W <sup>5</sup> HH Principle? Define its importance. [8]
	(b)	Describe process and program management rules in detail. [8]
		<u>OR</u>
Q.1	(a)	What are the relation between the Metrics, Measurements and Models? Explain
		in brief. [8]
	(b)	Give the metrics for software quality also explain how a software metrics
		program is established. [8]

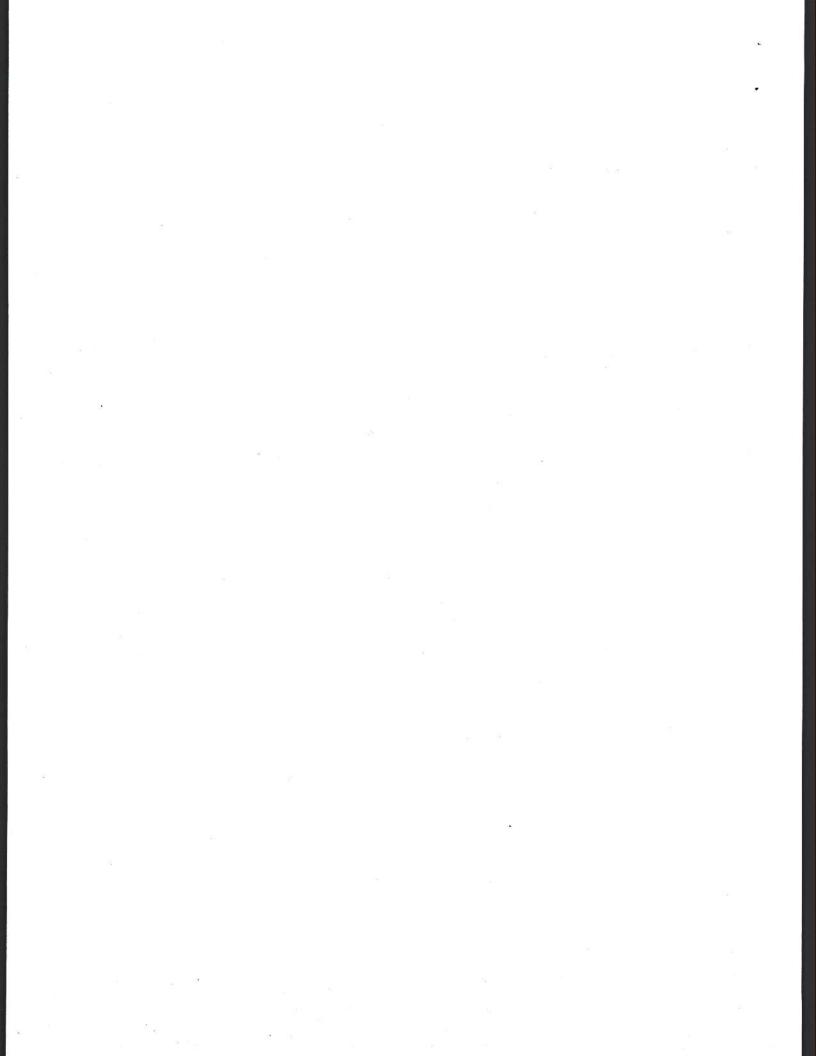
### <u>UNIT-II</u>

Q.2	Wha	at is empirical estimation? Explain COCOMO (Constructive Cost Model) with	the
	help	of appropriate example.	[16]
		$\underline{\mathbf{OR}}$	
Q.2	Exp	lain different approaches used in estimation in detail also give the role of ex	pert
	judg	gment in estimation.	[16]
		UNIT- III	
Q.3	(a)	Write short note on quality process planning.	[8]
	(b)	Describe the Reactive V/S Proactive Risk strategies.	[8]
		$\underline{\mathbf{OR}}$	
Q.3	(a)	Discuss the project scheduling technique and illustrate their advantages	and
		disadvantages.	[8]
	(b)	Explain Quantitative approaches used to measure quality with its types.	[8]
		UNIT- IV	
Q.4	(a)	What is SQA? Define Goals of SQA.	[8]
	(b)	Explain Statistical Software Quality Assurances.	[8]
		<u>OR</u>	
Q.4	Wha	at is the basic requirement of Software Configuration Management (SCM) syst	em?
59	Hov	w do you plan and organize for an SCM?	[16]

[7F7051] Page 2 of 2

# <u>UNIT- V</u>

Q.5	(a)	Expl	ain Reviews and NAH syndrome?	[8]
	(b)	Expl	lain various tracking in project monitoring and control.	[8]
			$\mathbf{OR}$	
Q.5	(a)	Disc	euss different steps in brief review process.	[8]
	(b)	Writ	te short notes on -	
		(i)	Risk Related Monitoring	[4]
		(ii)	Project closure analysis	[4]



Total No of Pages: 3 Roll No. E7052 7E7052 B. Tech. VII Sem. (Main / Back) Exam., Nov. – Dec. - 2018 **Information Technology** 7IT4A Internet Programming **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** Explain XHTML & Also explain W3C XHTML Validation Services? [8] Q.1 (a) [8] Write down the list and tables used in XHTML. (b) <u>OR</u> Q.1 What is Cascading Style Sheet? Describe in detail. [16]**UNIT-II** Explain Java Script in brief. How function can be declared and defined in Java Q.2 (a) [8] Script. Explain XML and its advantages in Internet technology. [8]

[7F7052] Page 1 of 3 [1400]

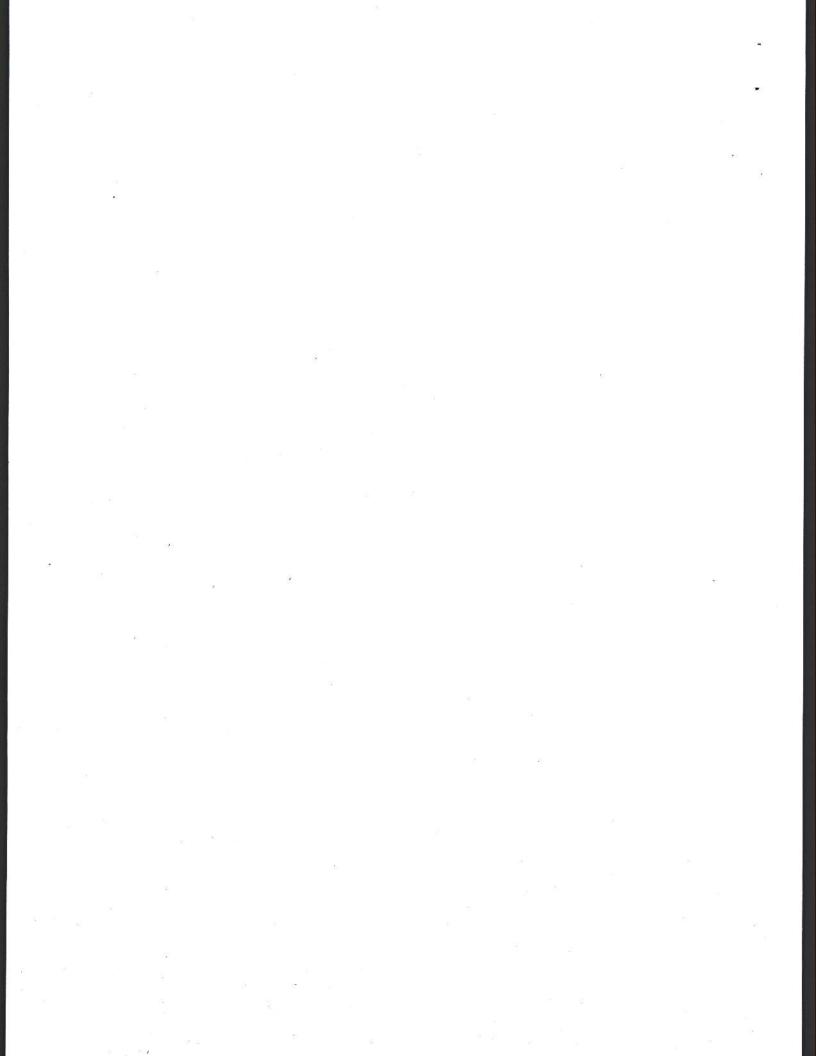
### <u>OR</u>

Q.2	(a)	Explain all events in Java Script.	[8]
	(b)	Explain DOM (Document Object Model) in Java Script.	[8]
		UNIT- III	
Q.3	Wri	te short note on -	
	(a)	Microsoft internet information service.	[8]
	(b)	Create a full scale Ajax-enabled application.	[8]
		<u>OR</u>	
Q.3	(a)	Explain an example of Ajax using the XML Http Request object.	[8]
	(b)	Explain the uses and advantages of Ajax in Internet technology.	[8]
		<u>UNIT- IV</u>	
Q.4	Writ	te down about the following -	
×	(a)	Cookies in PHP	[4]
	(b)	Session tracking in PHP	[4]
	(c)	Operators used in PHP	[4]
	(d)	PHP basics	[4]
		<u>OR</u>	
Q.4	(a)	How can we encrypt the username and password using PHP?	[4]
	(b)	What are different types of errors in PHP?	[4]
	(c)	What are the types of inheritance in PHP? Describe.	[4]
	(d)	What is the use of friend function? Describe.	[4]

[7E7052]

# <u>UNIT- V</u>

Q.5	How	we create and run a simple application in Net Bea	ns? Describe	with suitable
	exam	ple.		[16]
		<u>OR</u>		
Q.5	Write	e short note on the following –		[16]
	(a)	Session tracking in Java Web technology		
	(b)	XML name space and XML naming rules		
	(c)	JSF Component		



Roll No. \_\_\_\_ Total No of Pages: 3 7E7053 B. Tech. VII Sem. (Main / Back) Exam., Nov. – Dec. - 2018 **Information Technology** 7IT5A Computer Graphics & Multimedia Techniques **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 is the Scan Conversion? Explain Raster Scan system with the help of block diagram. [8] What is the importance and utility of a display processor in a computer graphics system? [8] OR What is graphics? Explain random scan display device system with help of block Q.1 (a) diagram. [8] Explain basic principle to draw a circle. Also explain mid-point circle

and the second s

[8]

algorithm.

## UNIT-II

Q.2	(a)	What is the need of Transformation b/w Coordinate Systems? Explain w	ith	
		example.	[8]	
	(b)	Explain Bresenham's line drawing algorithm. Also write its procedure in a	ıny	
		programming language.	[8]	
<u>OR</u>				
Q.2	(a)	Write down Composite transformation & Inverse transformation.	[8]	
	(b)	What is translation, rotation & scaling? Explain with examples.	[8]	
		UNIT- III	74	
Q.3	Imp	plement depth buffer algorithm to display visible surfaces of a gi	ven	
	pol	yhedron.	[16]	
	Is there any relation in definition of the object and storage requirements of the depth			
	buf	buffer? Explain.		
		<u>OR</u>		
Q.3	Wr	rite a procedure to display 2D, cubic Bezier curve given a set of 4 control poir	it in	
	XY	7 plane.	[16]	
UNIT- IV				
Q.4	Wı	rite a routine to convert RGB color model to HSV color model.	[16]	
		<u>OR</u>		
Q.4	1 Ex	plain Phong and Fast Fast Phong shading using a suitable object.	[16]	

Page 2 of 3 [1260]

### UNIT- V

Q.5 What is Animation? What are the challenges faced in its implementation? Write the steps in generation of animation. [16]

#### <u>OR</u>

Q.5 Which type of consideration are there in Architectural & telecommunication? Explain multimedia input/output technologies? [16]

Total No of Pages: |2 Roll No. \_\_\_\_\_ 7E7054 B. Tech. VII Sem. (Main / Back) Exam., Nov. - Dec. - 2018 **Information Technology** 7IT6.2A Intelligent Systems 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** Differentiate between knowledge base system and database system. [8] Q.1 (a) What do you understand about LISP programming language? Why LISP used for [8] AI. OR What is AI? Explain its origin and its various applications. [8] Q.1 (a) What do you mean by knowledge manipulation? Explain how uncertainty is (b) [8] managed in AI. **UNIT-II** Explain the Inference Rules for knowledge representation. [8] Q.2 (a) What are the advantages of Fuzzy logic control over artificial neutral [8] network?

OR



Q.2	(a)	What are Semantics? Explain the semantic rules for statement? Also describe the properties of statements. [8]				
	(b)	Draw the block diagram of Fuzzy logic. Explain the concept of fuzzy logic control in brief. [8]				
UNIT- III						
Q.3	(a)	What are the different control strategies used in knowledge organization? [8]				
	(b)	What is knowledge? Differentiate procedural and declarative knowledge in				
		detail. [8]				
<u>OR</u>						
Q.3	(a)	What is knowledge management in organisation? Explain with a suitable				
		example. [8]				
	(b)	Explain any matching technique used in knowledge organisation. [8]				
	<u>UNIT- IV</u>					
Q.4	(a)	Explain with the help of suitable example "Rule based" knowledge system				
		architecture. [8]				
	(b)	What do you understand about the non - production knowledge system				
		architecture. [8]				
	<u>OR</u>					
Q.4	Brie	fly explain about uncertainly knowledge system building tools in knowledge				
	syste	em architecture. [16]				
	UNIT- V					
Q.5	Brie	fly explain the following terms with suitable examples:				
	(a)	Expert System [8]				
	(b)	Learning by induction [8]				
	<u>OR</u>					
Q.5	Wha	at do you mean by knowledge acquisition? What are the different issues should be				
	cons	idered for planning knowledge acquisition? [16]				