Total No. of Pages: 2

Seat No.

T.E. (Computer Science and Engg.) (Semester - V)

		Examination, April - 2019	
		SYSTEM PROGRAMMING	
		Sub. Code : 66294	
		Date : Saturday, 27 - 04 - 2019 Total Marks : 1 2.30 p.m. to 05.30 p.m.	00
Inst	ructio	ns: 1) Question No. 4 and 8 are compulsory. 2) Answer any two questions from Question No. 1, 2 and 3. 3) Answer any two questions from Question No. 5, 6 and 7. 4) Figures to right indicate full marks.	
Q1)	a)	What is Language Processor? Explain in detail Language Processi Activities.	ng 8]
	b)	Discuss in detail fundamentals of Language specifications.	8]
Q2)	a)	Explain Intermediate Representation with an illustrative example. [8]
	b)	How the problem of Forward Reference is resolved in Assembler? [8]
Q3)	a)	Write about MACRO Definition and Call with syntax and Example. [8]
	h)	Discuss in detail, along with sketch/block diagram, the design of a mac	
Q4)	Wri	e short note on :	8]
	a)	Toy Compiler.	
	b)	Advanced macro facilities.	
	c)	LEX and YACC LPDT's.	
Q5)	a)	What is the Role of Operand Descriptor in the choice of instruction	in
2-1		선생님이 있는 경험 선생님이 있는 사람들이 얼마나 있는 것이 없는 것이었다면 없는 것이 없는 것이었다면 없는 것이 없는 것이 없는 것이 없는 것이었다면 없었다면 없는 것이었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없	8]
	b)		8]
		P.T.	Э.



	SV - 202
Explain Memory Allocation in Block Structured Language.	[8]
Write in detail; Execution of Overlay structured programs.	[8]

- Q7) a) What is Relocation? Discuss Role of Relocation factor to perform Relocation.
 - b) Give the Structure of UI with neat Diagram. [8]
- Q8) Write short note on: (Solve any three) [18]
 - a) Steps in Program Development.
 - b) Debug Monitor.
 - c) Compilation of Control Structures.
 - d) Text Editor

Q6) a)

b)

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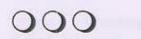
Total No. of Pages: 2

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T.E. (Computer Science and Engg.) (Semester - V) (Revised) Examination, May - 2019 NETWORK TECHNOLOGIES

	NETWORK TECHNOLOGIES	
	Sub. Code: 66297	
Time:	d Date : Wednesday, 15 - 05 - 2019 02.30 p.m. to 04.30 p.m.	Total Marks: 50
Instruct	ions: 1) Q. 1 is compulsory. 2) Attempt any three questions from Q.2to Q.5. 3) Figures to the right indicate full marks. 4) Assume suitable data if necessary.	
<i>Q1)</i> a)	Explain broadcast and common control channels of G	SSM. [6]
b)	Explain IEEE 802.11 MAC frame format.	[4]
c)	Explain design goals of MAC protocol for AD hoc wir	eless network.[4]
Q2) a)	Explain the following GSM Identities.	
	i) MSISDN	
	ii) IMSI	
	iii) IMEI	[6]
b)	What is TDD? Explain Bluetooth multislot packet trans	smission. [6]
<i>Q3)</i> a)	Explain MAC layer operation of IEEE 802.11.	
	i) Distributed control function.	
	ii) Point coordination function.	[6]
b)	Explain the following physical links used in Bluetooth.	
	i) Asynchronous connectionless link.	
	ii) Synchronous connection oriented link.	[6]
	(Alleger	RARY P.T.O.

			SV - 205
Q4)	a)	Explain weaknesses in WEP scheme.	[6]
	b)	What are the applications of wireless sensor networks?	[6]
Q5)	a)	Write a note on VPN.	[6]
	b)	Explain the architecture of sensor node.	[6]



Total No. of Pages: 2

T.E. (CSE) (Part - III) (Semester - VI) (New) Examination, May - 2018 STORAGE NETWORKS

Sub. Code: 66861 Total Marks: 100 Day and Date: Saturday, 12 - 5 - 2018 Time: 2.30 p.m. to 5.30 p.m. Instructions: 1) Figures to the right indicate full marks. 2) Question No.4 & Question No.8 are compulsory. Attempt any two questions from Q.1 to Q.3 and from Q.5 to Q.7. 3) [8] Q1) a) Explain Disk Drive Components in detail? Describe benefits of NAS in detail? b) [8] Explain cache mirroring and cache vaulting in Intelligent Storage System?[8] Q2) a) Explain the different components of SAN? b) [8] Q3) a) Explain the different Fibre Channel Topologies? [8] Discuss iSCSI components & connectivity? [8] b) Q4) Attempt Any Three. [18] DAS (Direct Attached Storage) RAID Level 5 b) Read & Write in cache, c) Factors affecting NAS d)



		SV-2	- Company
Q5)	a)	Explain any four implementation consideration of Virtualization entity	?[8]
	b)	With suitable diagram explain Symmetric Storage Virtualization?	[8]
Q6)	a)	Discuss following business continuity terminologies?	[8]
		i) Disaster Recovery	
		ii) Disaster Restart	
		iii) Recovery point objective	
		iv) Recovery Time Objective	
	b)	Explain any two backup technologies?	[8]
Q7)	a)	Which are the limitations of non - virtualized Storage Networks?	[8]
~ ,	b)	With suitable example explain Backup Granularity?	[8]
O8)	Δtt	tempt any three.	[18]
Q0)	a)	Measurement of Information Availability.	
	b)	Business Impact Analysis	
	7000	Full Volume mirroring	
	c)	Storage Security Domains	
	d)	Storage Security Domains	



Total No. of Pages: 2

T.E. (Computer Science and Engineering) (Semester - VI) (Revised) Examination, May - 2019

Database Engineering

Sub. Code: 66860

Day and Date: Friday, 17 - 05 - 2019 Total Marks: 50 Time: 09.30 a.m. to 11.30 a.m. Instructions: Attempt any two questions from question no. 1, 2 and 3. 1) 2) Attempt any two questions from question no. 4, 5 and 6. Figures to the right indicate full marks. 3) What are the different levels of data abstraction? Q1) a) [6] Explain the following: b) [7] i) Super key Primary Key ш) Candidate Key Foreign Key iv) Q2) a) Write SQL queries to perform given tasks on following schema. [6] Sailors(sid: integer, sname: string, rating: integer, age: real) Boats(bid: integer, bname: string, color: string) Reserves(sid: integer, bid: integer) Find the names of sailors who have reserved at least one boat ii) Find the names of sailors who have not reserved a red boat Find the name and age of the oldest sailor iv) Find the age of youngest sailor who is at least 18 years old Explain different data models. [6] b) Find closure and canonical cover for given set of functional dependencies. (03) a) [6] $\{A \rightarrow B, A \rightarrow C, CG \rightarrow H, CG \rightarrow I, B \rightarrow H\}$ Compare 3NF with BCNF. [6] b)



P.T.O.

 b) What are the different physical storage media used for data stor Compare all with respect to performance and cost. Q5) a) Explain two phase locking protocol with its variants. 	QL. [6]
(05) a) Explain two phase locking protocol with its variants	age? [6]
Q5) a) Explain two phase locking protocol with its variants.	[6]
b) Explain conflict serializability and view serializability.	[6]
Day and Date: Probay, 17-16: - 2019 The Point Marks:	
Q6) a) Explain timestamp ordering protocol for concurrency control.	[6]
b) Explain log based recovery mechanism.	[7]

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		SV-206
Seat	Г	Total No. of Pages : 2
No.	T TE	(CCE) (Post ID (Computer VI) Examination Man 2010
18	.E.	(CSE) (Part - II) (Semester - VI) Examination, May - 2019 COMPILER CONSTRUCTION (Revised)
		Sub. Code: 66858
		Date: Monday, 13-05-2019 Total Marks: 50
		.30 a.m. to 11.30 a.m. ons: 1) All questions are compulsory.
mstru	ıcıı	2) Figures to the right indicate full marks.
		SECTION-I
Q1) a	a)	Describe the use of DFA for a construction of a lexical analyzer. Illustrate
		with example. [4]
		OR
а	a)	Construct finite automata accepting the set of all strings ending with 101 where the Language is defined on {0, 1}. [4]
ł	b)	Enumerate and describe the different compiler construction tools. [6]
Q2) a	a)	Compute the FIRST and FOLLOW sets for the grammar given below [6]
		$E \rightarrow TE'$
		$E' \rightarrow +TE' \epsilon$
		T-FT'
		$T' \rightarrow *FT' \epsilon$
		$F\rightarrow (E) id$
		section should need grant OR and Cover's Standal meltined entitle (in
a	1)	Explain different error-recovery techniques used in syntax analysis. [6]
b)	Explain Specification of Tokens in Lexical Analysis. [4]
Q3) \	Wha	at are features of LR parser? Write the LR parsing algorithm. [5]

SECTION-II

Q4) a) What are S attributed definitions? Explain with the help of an example.

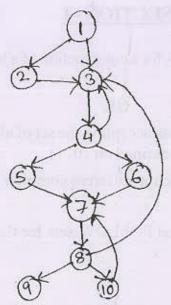
[6]

OR

- a) What is backpatching? Explain it with a suitable SDD. [6]
- b) Generate three address code for the following block: a = b * (c + d)

e = ((a + b) * (a + c))

Q5) a) What is a dominator tree? Draw the dominator tree for the given flow graph.[6]



OR

- a) What is peephole optimization? Describe different characteristics of peephole Optimization. [6]
- b) Discuss different issues in design of code generator. [4]
- Q6) What is a basic block? Draw DAG for the given basic block [5]

a=b+c

b=b-d

c=c+d

e=b+c

Total No. of Pages: 2

T.E. (Computer Science and Engg.) (Semester - V)

	Examination, April - 2019
	SYSTEM PROGRAMMING
	Sub. Code: 66294
	Date: Saturday, 27 - 04 - 2019 2.30 p.m. to 05.30 p.m. Ons: 1) Question No. 4 and 8 are compulsory. 2) Answer any two questions from Question No. 1, 2 and 3. 3) Answer any two questions from Question No. 5, 6 and 7. 4) Figures to right indicate full marks.
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b)	Discuss in detail fundamentals of Language specifications. [8]
Q2) a) b)	Explain Intermediate Representation with an illustrative example. [8] How the problem of Forward Reference is resolved in Assembler? [8]
<i>Q3)</i> a) b)	Write about MACRO Definition and Call with syntax and Example. [8] Discuss in detail, along with sketch/block diagram, the design of a macro Preprocessor. [8]
Q4) Wri a) b) c)	Toy Compiler. Advanced macro facilities. LEX and YACC LPDT's.
Q5) a) b)	What is the Role of Operand Descriptor in the choice of instruction in target Code of Toy code generator. [8] Discuss in detail with example; Triples and Quadruples. [8]

Q6)	a)	Explain Memory Allocation in Block Structured Language.	SV - 202 [8]
	b)	Write in detail; Execution of Overlay structured programs.	[8]
Q7)	a)	What is Relocation? Discuss Role of Relocation factor Relocation.	to perform [8]
	b)	Give the Structure of UI with neat Diagram.	[8]
Q8)	Wri	ite short note on: (Solve any three)	[18]
	a)	Steps in Program Development.	
	b)	Debug Monitor.	
	c)	Compilation of Control Structures.	

d)

Text Editor