School of Architecture

School of Engineering & Technology

ANJUMAN-I-ISLAM'S KALSEKAR TECHNICAL CAMPUS INNOVATIVE TEACHING | EXPRESANT LEARNING

School of Pharmacy

Knowledge Resource & Relay Centre (KRRC)

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AIKTC/KRRC/Se	ET/ACKN/QU	JES/2017-18/	

Date:

School: SoET-CBSGS

Branch: COMP. ENGG.

SEM: ___

To, Exam Controller,

AIKTC, New Panvel.

Dear Sir/Madam,

Received with thanks the following Semester/Unit Test-I/Unit Test-II (Reg./ATKT) question

papers from your exam cell:

C. Linet Name	Subject Code	For	mat	No. of
Control of the Contro	240]*******	SC	HC	Copies
SYSTEM PROGRAMMING & COMPILER CONSTRUCTION	CPC601		/	
SOFTWARE ENGG.	CPC62		/	
DISTRIBUTED DATABASE	CPC603		/	
MOBILE COMMUNICATION & COMPUTING	CPC604		/	
ELECTIVE I:			*	
	SOFTWARE ENGG. DISTRIBUTED DATABASE MOBILE COMMUNICATION & COMPUTING	SYSTEM PROGRAMMING & COMPILER CPC601 CONSTRUCTION SOFTWARE ENGG. CPC62 DISTRIBUTED DATABASE CPC603 MOBILE COMMUNICATION & CPC604 COMPUTING	SYSTEM PROGRAMMING & COMPILER CPC601 CONSTRUCTION SOFTWARE ENGG. DISTRIBUTED DATABASE MOBILE COMMUNICATION & CPC604 COMPUTING	SYSTEM PROGRAMMING & COMPILER CPC601 CONSTRUCTION SOFTWARE ENGG. CPC62 DISTRIBUTED DATABASE CPC603 MOBILE COMMUNICATION & CPC604 COMPUTING

Note: SC - Softcopy, HC - Hardcopy

(Shaheen Ansari)

Librarian, AIKTC



TE-sem-VI-cosas-comps-spcc

14/5/18

Q.P.Code:11587

	(3 Hours)	Total Marks: 80
N.B.:	(1) Question No. 1 is compulsory.(2) Attempt any three questions out of remaining five questions.	
Q1.	 (a) Differentiate between system software & application software? (b) Explain the role of finite automata in compiler theory. (c) Explain the various functions of a loader. (d) Compare compilers and interpreters. 	[05] [05] [05] [05]
Q2.	(a) With reference to assembler, explain the following tables with suitable (i) POT (ii) MOT (iii) ST (iv) LT (b) Explain the different code optimization techniques in compiler design.	example. [10] [10]
Q3.	(a) Explain the different issues in code genetrations.(b) Explain working of direct linking loader with example, showing entries different databases built by DLL.	[10] in [10]
Q4.	 (a) Construct a predictive parsing table for the grammar : - E → TE ' E' → +TE ' / E T → FT ' T ' → *FT ' / ε F → (E) / id 	[10]
	(b) Explain the different error recovery techniques	[10]
Q5.	(a) Explain the different storage allocation strategies in detail.(b) Differentiate Top-down and Bottom-up parsing techniques. Explain shi	[10]
	reduce parser in detail.	[10]
Q6.	 (a) Explain the different phases of compiler. Illustrate all these phases for the following statement: a = b + c * 5 (b) Write short note on: (i) Parameterized Macros (ii) YACC 	[10] [10]

University of Mumbai

DASHBOARD

Notices

Correction in Program Code T2826 - TE (COMPUTER)(Rev-2012)(CBSGS)(SEM VI) / T0868 - SYSTEM PROGRAMMING AND COMPILER CONSTRUCTION Q.P Code: 11587

Read As,

Changes. Q4 a) second expression should be

E →+TE'/6

Instead of

E'→+TE'/E



TE-sem-VI - CASGS-comps - SE

[Marks:80]

Q.P. Code :11614

			[1	'ime: 3 Hours]			[Marks:8
				Please check whe	ther you have g	got the right question paper.	
		N.	B: 1.	THE RESERVE OF STREET		\$ 5 K 5 K 5 K 5 S 5 S 5 S	
		14.	2.	Attempt any thre	e questions out	t of remaining five.	
			6.1	Accempt any mic	e questions out		55885
Q.1		Hospital	Managem	r Hospital Manager ent System is a pro	cess of impleme	enting all the activities of the hospital in a	20
		This syst also man SRS for t a)	em is to m nually edit	any patient details I Management syst erspective	details, lab repo and issue bill re	orts and to calculate the bill of the patient ceipt to patient within few seconds.	t. You can
		c)	Functional	requirements	2 2 6		\$100
				onal requirements			R
	N.	economic s		ad Cavallan Evalate	different type	s with detailed example.	10
Q.2	a) b)	Explain i	n detail Se	rvice-Oriented Soft	ware Engineering	ng.	10
Q.3	a)		what is cyclity of follo		and different m	nethods to calculate it. Find the cyclomati	c 10
		int x, y, y float z; input (x, if (y<0) power else	y);				
		power =	Y:				
		z = 1;	8.8.8				
		while (p	ower I = 0	Н			
		z =z-4. x;	S 5 5 3				
		power =	power - 1				
		1000					
	100	if (y<0)					
	53	z=1	/2;		100		
		output (z);				
	b)	Explain I	Risk and its	types? Explain the	steps involved	in setting up or generating RMMM plan.	10
Q.4.	a)	Conside	r a softwar on, Duratio	e project using Sem on estimation and p	i-detached mo	de with 30,000 lines of code. Obtain effor on.	t 10
	b)		5 F 3	rsion and change co			10

(P.T.O)

Q.P. Code :11614

Q.5. a) b)		10 10
Q.6.	Write short notes on any two:- (a) Software Configuration Management	20
	(b) Test Driven Development (c) Agile Process Models (d) User interface design	8.3



TE-sem-VI-085GS-Comps-DD

24/5/18

Q. P. Code: 38884

Total marks: 80

Note: Question No. 1 is compulsory. Attempt any Three questions out of remaining questions. Make suitable assumptions whenever necessary. Q1: [5 X 4] a) What do you mean by Distributed Serializability? b) What are the objectives of distributed query processing? c) Explain state transition diagram for 3PC. d) What are the different types of Fragmentation in distributed databases? Q 2: a) Explain Two-phase Commit Protocol.. [10] b) Explain the reference Architecture of tightly coupled Federated MDBS. [10] Q3: a) Explain locking-based concurrency control protocols. [10] b) Explain the following transparencies in distributed database design. Data distribution transparency, transaction transparency performance transparency, DBMS transparency [10] Q4: Consider the global schema: [20] BOOKS(Book#, Primary_author, Topic, Total_stock, \$price) BOOKSTORE(Store#, City, State, Zip, Inventory_value) STOCK(Store#, Book#, Qty) Show 2 example of horizontal fragmentation. Show 2 example of Vertical fragmentation. 3) Show 2 example of Derived fragmentation. Q 5: a) Explain distributed Deadlock Prevention... [10] b) Give the DTD or XML schema for an xml representation of the following nested-relational schema: [05] Emp = (ename, ChildrenSet setof(Children), SkillSet setof(Skills)) Children = (name, Birthday) Birthday = (day, month, year) Skills = (type, ExamsSet setoff(Exams)) Exams = (year, city). c) Write a query in XPath on the schema of (Q5 b) to list all skill types in Emp. [05] Q 6: Write notes on the following. (any two) [10 X 2] a) Component Architecture of Distributed DBMS. b) Phases of query processing.

(3 Hours)

c) 2PC recovery protocols.

d) Querying and transformation of XML data.



TE-sem-VI - Computers- CBS98- MCfC

30/5/1

Q.P. Code: 36774

		[Time: Three Hours]	[Ma
		Please check whether you have got the right question paper. 1. Question No. 1 is compulsory. 2. Attempt any three questions out of the remaining questions. 3. Make suitable assumptions wherever necessary.	
Q.1.	A) B)	Discuss multiplexing in wireless communication. Explain the need of specialized MAC in wireless communication.	10 10
Q.2.	A) B)	Explain in detail Bluetooth protocol architecture. Explain HIPERLAN 1 MAC sublayer.	10 10
Q.3.	A) B)	Explain agent advertisement and discovery registration in mobile networks. Why and how can optimization in mobile IP be achieved.	10 10
).4.	A) B)	Explain GSM architecture in detail. Explain types of handoffs in mobility management.	10 10
).5.	A) B)	Explain any two TCP for mobile communication. Explain wireless local loop architecture	10 10
0.6.		Write short notes on (any 02) a) Cryptographic tools for Security in mobile computing. b) GPRS network nodes. c) Android layers. d) Satellites (GEO and LEO)	20