Examination:November-December 2016Date:23-11-16Branch:Computer EngineeringSubject:SPCC

Class/SEM: TE/VI Paper Code: 581502

Examination:November-December 2016Date:29-11-16Branch:Computer EngineeringSubject:SE

Class/SEM: TE/VI Paper Code: 581603

Examination:November-December 2016Date:14-12-16Branch:Computer EngineeringSubject:MCC

Class/SEM: TE/VI Paper Code: 581802

Examination: November-December 2016 **Date:**

Branch: Computer Engineering Subject: DD

Class/SEM: TE/VI Paper Code: 581702

SPCC T.E Sem VI CBGS Comp.

Sub-spec

NOV-DEC-2018

Q.P. Code: 581502

	Q.P. Code: 581502	
	(3 Hours) [Total Marks: 8	80
N.B.	 (1) Question No. 1 is compulsory. (2) Attempt any three from the remaining questions. (3) Assume suitable data if necessary. (4) Figures to the right indicate full marks. 	Casili
1. (a)		5
(b)	, , , , , , , , , , , , , , , , , , , ,	5 5
(c) (d)	What are different type of attributes in SDD? Explain with examples. Backpatching with example.	5 5
) 2. (a)	Explain two pass macro processor with flowchart and databases,	10
(b)	Explain various loop optimization techniques with example.	10
3. (a)	a) Construct SLR parsing table for following grammar, Show how parsing actions are done for the input string () () \$. Show stacks content, i/p buffer, action.	12 12
	$S \rightarrow (S)S$	٠
	$S \rightarrow \epsilon$	
(b)	What are various databases used in two pass assembler design. Explain with example.	8
4. (a)	Discuss various intermediate code forms in detail.	10
(b)	What is Loader? Explain functions of loader with examples.	10
: : : :	For the given grammar below construct operator precedence relations matrix, assuming*. $+$ are binary operators and id as terminal symbol and E as non terminal symbol. $E \rightarrow E + E$ $E \rightarrow E * E$ $E \rightarrow id$	10
É	Apply operator precedence parsing algorithm to obtain skeletal syntax tree for the statement	
	id⊕id * id	10 -
(b) E	Explain Run time organization in detail.	10
. Write	short notes.	5
(a)		5
(b)	Design of an Editor	5
OAA (C)	Syntax Directed Translation	5
(d)	- A managing	3

1.

	(3 Hours) [Total Marks :	80
N.I	 3.: (1) Question No.1 is Compulsory. (2) Attempt any Three questions out of remaining questions. (3) Make suitable assumptions whenever necessary. 	10 10
1. a) b) c)	What are the general mablems of satellite signals travelling from a satellite	` 10 10 10
d) e)	to a receiver? Explain how Mobile originated call (MOC) work.? What are the characteristics of SIM?	10 10
. a)	List the entities of mobile IP and describe data transfer from a mobile node	10
b)	to a fixed node and vice versa. What are the modifications require to an existing GSM network to be upgraded to GPRS, Explain with the help of diagram.	10
a) b)	Explain in Detail IEEE 802.11 MAC subleyer. Compare 3G and 4G.	10 10
a) b)	Explain in detail Bluetooth Protocol Architecture. Explain in detail how Subscriber Authentication is done GSM.	10 10
-	Compare HIPERLAN 2, BLUETOOTH, IEEE 802.11. What are the different types of Handover in Satellite systems? Explain in Detail.	10
2	e short notes on the following: a) Satellite orbits. b) Android framework.	20
c d	Android framework. Cellular IP. Digital Certificate.	
, . <u>(</u>	Scanned by Ca	amScanne

Rub - DB

Q.P. Code: 581702

(3 Hours)

N.B.: (i) Question No.1 is Compulsory. (2) A tempt any 3 questions out of the rest (3) Figure to the right indicate full marks. the transmit and marks

[Total Marks: 80

5

5

5

10

10

10

10

10

10

U. a) What are advantages and headvantage od Distributed DBMS

- b) What are the features of DDBMS?
- et Explain : e basic Timestamp Ordering Algorithm.
- d) What are the objectives of Distributed Query Processing?
- What is horizontal and vertical fragmentation? What are the types of 2 a) horizon al fragmentation. Perform horizontal fragmentation for student relation is given below.

Also give the correctness criteria for it.

Student (Studentrollno., StudentName, Course Parne, CourseFees, year)

- What are the various kinds of transparencies in distributed database design? b) Explain each with the help of an example
- What are the various concurrency control techniques? Compare Lock based 3 a) Concurrency Control strategies in detail.
 - Compare Distributed Deadlock prevention to Distributed Deadlock (d) Explain one scheme of Distributed deadlock Detection and Recovery.
- A banking database should contain the customer's information along with the types of accounts customer is maintaining. Customer information is 4 a) its full profile information along with his current address, PAN ID, adhar Card no. included and account information should include type of account (Saving, fixed, demat, recuring, current), date and time of access and the
 - i) A Write the DTD rules for the above XML documents.
 - ii)(V) Create an XML schema for the above XML document.
 - b) What are humogenous and heterogeneous database. Give the architecture \mathcal{F} of heterogeneous antabases along with some query processing issues.

TURN OVER



O.P. Code:

What problems can occur in a distributed system due to the failure of link? What are the ways by which recovery can take place?

Explain the phases of query processing in Tetributed database 6)

(1)

The second series in the second series of the second second series of the second secon Count model is marker of by demi.