SARDAR PATEL UNIVERSITY BCA EXAMINATION, III SEM

Q-1 Multiple Choice Question i) Actual value of a column is also called a) Tuple b) Derived Attribute c) Attribute ii) How many conceptual schemes are available per database? a) One b) Two c) Three d) Four iii) Which constraint is used to respect the type and representation of its attributes a) Domain b) References c) Entity d) Simple iv) query statement is auto committed query? a) Insert b) Drop c) update d) Grant c) Change b) Update c) Alter d) Create v) SQL statement is use to modify data type of any column of table. a) Change b) Update c) Alter d) Greate vi) SQL PLUS command is use to execute a command file. a) Connect b) Save c) start d) speol vii) A value can be inserted into the columns of any data type. a) Null b) Unique c) Not Null viii) Table level constraints are stored as a part of the table definition. a) Primary b) Global c) Temporary d) Local ix) algreate into the columns of any data type. a) Group by b) Sub query c) Having d) Where x) The address field of an index is called a) Row id b) Column id c) View d) Index i) Define attribute and tuple. iv) Explain Order By clause. j) Define attribute and tuple. iv) Explain Order By clause. j) List auto committed commands and explain any one with its syntax and example vii) Explain DeCODE function with simple example. What is Column level constraints? ix) Explain DeCODE function with simple example. What is privilege? List the type of Privileges. xi) What is Privilege? List the type of Privileges. xi) What is E-R Diagram? Draw the different symbol of ER Diagram. b) Explain fleational Data model Q-4 a) Explain various ways to change structure of table using alter statement. [05] b) What is DML? List types of statement of it and explain any two. [05]				Fotal marks : 70
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Q-4	a)	Explain various ways to insert records in a table	เ กรา
•	b)	Explain how to filtering the data in ORACLE. Explain with proper syntax and example	[05] [05]
Q-5		Explain Primary and Foreign key constraint with appropriate example.	
•			[10]
Q-5		OR	
ζ υ		List all scalar functions available in SQL and explain any three main function with its sub functions in detail.	[10]
Q – 6	a)	What is transaction processing? Explain all TCL statements.	
	b)	What is index? List types of index and apple.	[05]
	• ,	What is index? List types of index and explain any one with example.	[05]
Q-6	a)	What is view? Why it is seen at	
~ . •		What is view? Why it is created, explain it syntax & example.	[05]
	υ) a	Explain referencing a sequence with the example.	[05]



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No. of Printed Pages : 02 [82/A-39] SARDAR PATEL UNIVERSITY BCA EXAMINATION, IIIrd SEMESTER Wednesday, 15th November, 2017 2:00 p.m. to 5:00 p.m.

US03CBCA02

[Object Oriented Programming and C++]

Maximum Marks: 70

Q-1		Multiple Choice Question.[Each Question carries one Mark]						
-	1)	means "To bind data & fur	actions into a single unit"					
		A. Inheritance	B. Polymorphism					
		C. Data hiding	D. Encapsulation					
	2)	is known as scope resolution	operator.					
		A. &	B. <<					
		C.>>	D. ::					
	3)	is basic run time entity in ol	oject-oriented system.					
		A. Class	B. Object					
		C. Data	D. Function					
	4)	is used to free/destroy the	memory occupied by the objects.					
		A. Constructor	B. Destructor					
		C. Delete	D. None of Above					
	5)	Object without name is known as	· · · · · · · · · · · · · · · · · · ·					
		A. nameless object	B. live object					
		C. constant object	D. default object					
	6)	as insertion or put-to operator.						
		A. cin	B. cout					
		C. both (A) and (B)	D. Non of Above					
	7)	One base class & multiple derived classes	means inheritance.					
		A. multiple	B. hierarchical					
		C. multilevel	D. hybrid-					
	8)	Which of the following is a valid function prototype in C++?						
		A. int sum(int a, int b, int $c = 0$)	B. int sum(int $a = 0$, int b, int c)					
		C. int sum(int a, int $b = 0$, int c)	D. int sum(int a = 0, int b, int $c = 0$)					
	9)	Which one of the following operators ca	in be overloaded?					
٠		A. ::	B. New	•				
		C*	D. Sizeof					
	10)	The correct function name for overloadi	ng the addition (+) operator is					
		A. operator+	B. +operator					
		C. operator(+)	D. operator:+					

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Q-2		Give Answers for the following:(Any ten)	[20]
	1.	List out the features of OOP.	o'
	2.	Define: variable and constant.	
	3.	List out types of operator available in C++.	
	4.	Define constructor and write characteristics of constructor	
	5.	Define nameless object.	
	6.	Explain cout in C++ with example.	
	7.	List situations when inline function is not expanded inline.	
	8.	What is the difference between private & protected members of the class?	
1 - 2	9.	Discuss default arguments briefly.	
	10.	What is an operator function? Describe the syntax of an operator function.	
	11.	What are input and output stream?	
	12.	List out five operators to be overloaded in C++.	
Q-3-	A)-	Explain the concept of class & object with example.	[5]
	B)	Explain Encapsulation in detail with example.	[5]
		MOLESCHIE OR	
Q-3	A)	Explain Polymorphism concepts of Object Oriented Programming with exaample.	[5]
	B)	Explain enumeration data types with example.	[5]
		C Deface T. Nome of Vones	
Q-4	A)	Explain parameterized constructor with example.	[5]
	B)	Explain declaration and initialization of two dimensional array with example.	[5]
* 1		A. custoniplaca SO 'D. default object.	
Q-4	A)	Explain the forms (methods) of member function definition for the class with an	[5]
		example.	
	B)	Explain Array of object with example.	[5]
		Onch we state of the first of the sea means in the seal of the	
Q-5	A)	Explain multiple & multilevel inheritance with suitable example.	[5]
	B)	Discuss inheritance in public mode & its effects on accessibility of base-class	[5]
		members.	
			. [5]
Q-5	A)	Define inheritance. List all types of inheritance. Discuss the syntax of defining base- class & derived class.	[J]
*	B)	Explain the concept of friend function with suitable example.	[5]
	-)	A A A A A A A A A A A A A A A A A A A	1 50 5
Q-6		Explain Unary and Binary operator overloading with example.	[10]
~ 0		Se nothered (a) matte for ov SO time addition (a) meretter is	
Q-6		Define file mode. Explain opening file with following ways:	[10]
~ 0		(a) by constructor function (b) by open ().	

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[588 A-46] SARDAR PATEL UNIVERSITY

B.C.A. (3rd Semester) (CBCS) Examination 2017 Thursday, November 16, 2017

02:00 pm to 05:00 pm

Q:1

US03CBCA03 || ADVANCED DATA AND FILE STRUCTURE

	Marks: 7	0
	Select an appropriate answer for the following.	[10]
1.	Illeans a link between parone and	
	(a) Branch Degree (b) Height (c) Leaf (d) Degree and sulfique add fall bermioting as a profession to apply the state of th	
2.	An array is a data structure.	
	(a) Heterogeneous (b) Non- Linear (c) Unordered (d) Homogeneous	
3.	If the range of index varies from LU then size of the array	
an		
	is	
4.	A graph (or digraph) is termed as if all the edges in it are	
(04)	labeled with some weights.	
	(a) Label graph (b) Line graph (c) Weighted graph (d) Double graph	
[80]	Draw tim binary tree for Edwards account and account to the binary tree for Edwards account to the binary tree for the binary tre	
5.	A node whose outdegree is 0 is called (a) Sink node (b) Source node (c) Self loop (d) Single node.	
6.	Maximum number of nodes possible in a binary tree of height h is	
	(a) 2 ^ (h + 1) (b) 2 ^ (h - 1) (c) 2 ^ h + 1 (d) 2 ^ h - 1	
		8
7.	The process of finding the data from its data structure is called (a) Sorting (b) Searching (c) Deletion (d) None of these	
	(a) Sorting (b) Searching (c) Beletion (d)	
8.	technique requires an ordered table to search a particular	
	record in the table. (a) Sequential search (b) Sorting (c) Binary search (d) None of these	
9.	The lowest level of index is	
	(a) Track index (b) Prime index (c) Index area (d) Master index	A
[00]	White a detail note on processing of Direct rie.	.8
10.	Record is also known as group or	
	(a) Item (b) Segment (c) Entity (d) None of these	

Q:2		Answer the following questions. (Attempt any ten)	2001
	1.		[20]
	2.	Write the formula for address calculation of 1-D array element and explain it. Define root and leaf of a tree.	
	3.	List 2 applications of an array.	
	4. 5.	What is loop and cycle of a Graph? Draw the Binary Tree for (A-B)+c*(E/F).	
	6.	Define Directed and Undirected Graph.	
	7. 8.	List the applications of sorting.	
	o. 9.	Define Sequential Search. List the applications of Searching.	
	10.	What do you mean by Transaction? Which types of transactions are performed	
	11.	Define: File, Database.	
	12.	Write down the syntax and purpose of open statement for Input mode.	
:3	Α.	Define array. Explain 1-D array with declaration and initialization.	[06]
	В.	Explain Sparse Matrix in detail. OR	[04]
:3	Α.		
	В.	List the representation of 2-D array in the memory. Explain applications of tree.	[06]
		ing terminal di kacamatan di Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn K Kabupatèn Kabupatèn	[04]
4	A. B.	Explain the representation of Binary tree.	[06]
	u,	Draw the binary tree for following expressions: Inorder D B H E A I F J C G	[04]
		Preorder A B D E H C F I J G	
		OR STATE OR STATE OF THE PROPERTY OF THE PROPE	
4	A.	Explain deletion of a node from binary tree (all 4 conditions) with example.	[06]
	B.	What are the types of traversal of Binary tree? Explain any two with an	[04]
		example.	
:5		What is searching? List and explain searching techniques with algorithms.	[10]
5		What is sorting? List sorting techniques and explain any one of them with	[10]
		algorithm.	
6	A.	Write a short note on Multiple buffering.	[05]
	B.	Write a detail note on processing of Direct file. OR	[05]
			₩ (* · · · · · · · · · · · · · · · · · ·
6	Α.	Explain the structure of index sequential file supported by IBM.	[05]
	В.	List and explain different types of record layout supported by sequential file.	[05]
		- Warness	
		the transfer of the second second second second	
		2	

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SARDAR PATEL UNIVERSITY SYBCA Third Semester EXAMINATION CBCS 17/11/2017 (Friday) Introduction to Microprocessors- US03EBCA01

Time at 0.00 mm 4- 4.00 mm	-		200 4 7 7 7 1
Time: 2.00 pm to 4.00 pm		:	Total Marks: 70

	Select most appropriate single answer:	[10]
1.	An assembler translates the assembly language to the binary codes. (A) Program (B) mnemonics (C) Code (D) None of these	
•		
Z.	Which of these is not a control flag? (A) TF (B) IF (C) DF (D) AF	
3.	(A) TF (B) IF (C) DF (D) AF AAA stands for	
•	(A) Adjust for Addition (B) Adjust After Addition	
	(C) ASCII Adjust for Addition (D) None of these	
4.	DIV stands for	
	(A) Division (B) Signed Division (C) Uniform (B) N. Still	
5	(C) Unsigned Division (D) None of these NOT stands for	
٥.	(A) Negative (B) Nothing	
	(C) Invert all Byte (D) Invert each Bit	
6.	ROR stands for Rotate of operand Right.	V +
	(A) All Bytes (B) Each Bytes	
_	(C) All Bits (D) Each Bits	
7.	An END directive ends the	
Q	(A) segment (B) program (C) procedure (D) None of these	
0.	The ASSUME directive is used to tell the assembler the name of the segment it should use for a specific segment.	
	(A) code (B) Logical (C) data (D) stack	
9.	The full form of DB directive is	
	The full form of DB directive is (A) Data Byte (B) Define Bits (C) Define Byte (D) None of these	
	(C) Define Byte (D) None of these	
10.	AND – AND corresponding operands.	
	(A) Bits of two (B) Bytes of two (C) Words of two	
	(C) Words of two (D) All of these	- *
Q.2	Write Answers in short. Attempt Any Ten.	[20]
1.	Define: Decoder and its function in EU.	
2.	List all conditional flags of 8086 microprocessor.	,
	Describe Stack pointer registers.	
4.	Explain DEC instruction in detail.	
5.	Explain NOT instruction with example.	
6.	Explain OR instruction with example.	
7.	Describe below code.	
	MOV CL, 02H	
	ROL AL,CL	
8.	Explain JMP instruction.	
9.	Explain SHL instruction.	
	Draw structure of a typical assembly program.	
	Explain END directive.	
1.4.	Explain ASSUME directive.	

Q.3	OR Oraw the diagram of 8086 internal architecture Also explain Flag Register and General Purpose Registers of 8086 Architecture. OR	
Q.3	Explain Instruction Pointer in detail. What is an Assembler? Explain the concept of assembler.	5
Q.4 [A] [B]	Explain MOV instruction by taking appropriate examples. Write a short note on AND instruction. OR	[5]
Q.4 [A] [B]	Explain SUB instruction by taking appropriate example. Write a short note on CMP instruction.	income persons
Q.5 [A] [B]	Explain SHL instruction with example. Explain JUMP instruction OR	passang pansang NGO 3167 Venturan instanti
Q.5 [A] [B]	Explain ROR instruction with example. Explain LOOPZ instruction with example.	to the same of the
Q.6 [A] [B]	Which are the Looping structures? Explain any one in detail. Explain Assembler directives: ASSUME, DW and LABEL. OR	[5] [5]
Q.6 [A] [B]	Write a program for Multiplication of two numbers without using MUL instruction. Explain IF-THEN-ELSE structure by taking appropriate example.	[5] [5]
5 + 5	e de la companya del companya de la companya de la companya del companya de la companya del companya de la companya de la companya de la companya de la companya del companya de la companya del la companya de la companya del la companya d	43.

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SARDAR PATEL UNIVERSITY

S.Y.B.C.A. (Semester-III) EXAMINATION November-2017

US03EBCA02: Introduction to Artificial Intelligence

ate: 17	//11/201/	rime:	: 02:0() to 04:00		lotal Warks	: /U
	Multiple choice qu			en e	elektronia e		[10]
1.	Medical diagnosis		Trans 8	The second of th	in the second of the second	<u> </u>	
	A. Mundane task	B. Formal task		C. Expert task	D. No	ne of these	
2.		is considered to the	e first	Al program		7 .	
	A. The Logic Theor			B. DENDRAL	magning Ayerts A	V 13	
	C. MYCIN			D. ELIZA	magazin til skri		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	post seasons	J. *		$= \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) + \frac{1}{2} \left(\frac{1}{2} \right) \right)$	* **	
3.	Inferring facts from	m existing data is a	lso kn	own as			
	A. Reasoning				an and the se	35 (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	C. Learning	•		B. Retrieving D. Acquisition	and the state of	- f	

4.	In	each rule cont	ains tv	vo confidence es	stimates.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	A. MYCIN	B. DENDRAL		C. R1	and Artificial Artific	OSPECTOR	
5,		use symbolic repr	esenta	ations for knowle	edge.		
	A. Expert system	developments		B. Expert shell			
•	C. Inference engin	e e		D. Knowledge ha	ase		
	_		10-4-5	angan ngbAvin	मही एक स्थापन क	HAVE THAT	:
6.	Which of the follo	wing will find the b	est go	pal state?	menyel an i		
	A. Best-first search	h		B. Depth-first se			
	C. Bidirectional se	arch		D. Breadth-first	No. of the second second	a firm of grant	
	•	8.00%					
7.	Predicates are also	o known as			ar galas A		
	A. Functions	Mark 1		B. First-order	procedured to	ere in the contract of	
	C. Atoms	the wall through Africa to the	1000	D. Heuristic	HARATET THE RESIDENCE	\$ (
8.	The terms Analog	sidnals, Real time,	Senso	rs and special ha	ardware are u	sed for)
	A. Computerised g	gaming		B. Robots	4年 - 1974年代 -	13.47	
	C. Language trans	lators ::		D: None of these	3		
				- 100 File	eers jaar s		Į.
9.	Α	can be regarded	d as a	label applied to a	a linguistic co	ncept which	
	has no precise bo			, ,	· ·	•	
	A. Fuzzy Logic	B. Fuzzy set		C. Crisp set	D. No	ne of these	
10.	The conventional	machine uses					
	A. Fuzzy Logic	B. Fuzzy set		C. Crisp set	D. No	ne of these	

ζ,2	write short answer of any ten.		[20
•	1. What is ELIZA?		-
	2. List the events that took place in 1956		
	3. List the Task domains of Al) (14.2)	
	4. State the stages of knowledge acquisition	-	
	5. What is a Knowledge base?	1 1	
	6. What is a User interface?		
	7. What is interactive deepening depth first search		
• •	8. State the connectives of FOPL		
	9. What is Depth-first search		
	10. State any two problems with Robots.		
_	11. What is Fuzzy logic		
-	12. State any 2 reasons why game playing was appealing for AI researchers	•	
Q.3(a)	Explain history of Al in brief.		*
(b)	Write a note on Al Problem		[5]
(/	OR		[5]
Q.3(a)	What is AI? Explain in Brief.		
(b)	Write a note on the underlying assumption of Alice 11		[5]
177	The differential assumption of Ai problem.		[5]
Q.4(a)	Write a note on Knowledge acquisition.		
(b)	Write a note on the characteristic features of an expert system.	•	[5]
(-/	On.		[5]
Q.4(a)	Write a note on knowledge representation.		
(b)			[5]
()	What is an Expert shell? Write a note on Expert shell.	:	[5]
Q.5	Write a note on predicate logic.		
Q,S			[10]
Q.5	OR Explain following:		
Q,i3	d death of the control of the contro		[10]
	4. interactive deepening depth first search 5. bidirectional search.		
Q.6(a)	Write a note on Fuzzy logic		
	Write a note on Game playing.	· ·*	[6]
(5)			[4]
O 6(a)	Write a pate on prior sets		
	Write a note on crisp sets.		[6]
(n)	Write a note on Robotics.	Į:	[4]
	and the control of th		
1.50%	8 g 4 g 4 g 4 g 4 g 4 g 4 g 4 g 4 g 4 g		

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SARDAR PATEL UNIVERSITY BCA EXAMINATION, III SEM

Date	: 13 th NOV 2017, Monday	Time: 02:00pm To 05:00pm
Session Course No	: Evening Sub: : US03FBCA01	Financial and Accounting Management Total marks: 70
i) ii) iii) iv) v) vi) vii) viii) ix) x)	a) Debtors b) Cash c) Trade (Posting' the transactions means: a) Entering items in a cash book b) Making the first entry of a double entry to double entry	me d) Bad debts ok of accounts. e d) Bank ransaction rnal. Sales Book Purchase Book rce Sheet d) None Balance sheet s Loss d) Gross Profit rstanding capital market Planning for the firm's financial ing and controlling d) None operation of a firm. c) Combine leverage d) None
i) ii) iii) iv) v) vii) viii)	t Answer attempt any ten (Each carry 2 m List types of accounts and explain its rules for deb What do you mean by Book Keeping? What is posting? and write purpose of ledger. Define depreciation and explain any one. Define sales book, purchase book with its rules Write adjustment entries can be made in final accordrawing. Discuss the role of CFO. List the important finance decisions or functions.	it and credit.
ix) x)	List out the uses of ratio analysis. Explain any one List out all types of ratio analysis with its sub types	in detail

Explain per unit and total Variable cost by graph.

Define cash breakeven point and write equation of it.

Q-3	a)	What is Trial balance? Write purpose, advantages and disadvantages of it? Also draw format of trial balance	[06]
•	b)	Explain the terms Creditors and Debtors with example.	[04]
Q – 3	a)	Journalise the following transactions i) 01/04/2015 A business started with cash Rs. 8,000, receivables (Debtors) Rs. 2,400, Gcods Rs. 3,000, Payables (Debts) Rs. 800 and a loan of Rs. 2,000	[05]
		from Neha. ii) 10/04/2015 Purchased goods from Nimesh on credit Rs. 200. iii) 24/04/2015 Sold goods to Ashish Rs. 400, Received cross cheque Rs. 375 as full settlement. iv) 30/04/2015 Goods of rs. 1000 sold at 10% T.D. & 2% C.D. to pulkit &	
	b)	received half amount in cash. Explain ledger with its format and example.	[05]
Q – 4		Explain Profit & Loss account and Balance sheet along with purpose & format.	[10]
Q – 4		From the following balances extracted from the books of X & Co., prepare a trading and profit and loss account and balance sheet on 31st December, 1991. Particulars Rs Particulars Rs Returns outwards Stock on 1st January 11,000 Returns outwards 500 Trade expenses 200 Office fixtures 1,000 Cash in hand 500 Cash at bank 4,750 Carriage inwards 800 Carriage outwards 1,450 Carriage outwards Carriage outwards 1,450 Carriage outwa	[10]
		Commission (Dr.) Interest on capital Stationary Returns inwards i) The stock on 31st December, 1991 was valued at Rs. 25,000, ii) Interest on capital 10%	\$ **
Q – 5	a) b)	Explain different finance functions. Write a short note on uses of ratio analysis. OR	[06] [04]
Q - 5	a) b)	Describe financial goal and firm's objectives. Explain Dividend and Liquidity Decision	[06] [04]
Q - 6	a) b)	Explain any two main type of ratio analysis in detail. Explain Limitations of CVP analysis.	[06] [04]
Q - 6	a) b)	OR Explain CVP analysis for a multi-product firm in detail. Explain utility of CVP analysis.	[06] [04]