- 12 Write complete C programs (any two)
 - Write a program to find sum of digits of accepted number.
 - Write a C program to find the sum of series 1+3+5+7..... up ton terms.
 - (iii) Write a C program to display following output on the screen.

1 2 1 1 3 2 1 2 5



GU-2551	Seat No.	
CI C MOOI	DCat 110	

B. C. A. (Sem. I) Examination

November / December - 2013

BCA - 101: Fundamentals of Programming Language 'C'

Time: 3	Hou	rs] (CC) (New Course) [Total Marks:	70	
1 (a)	Fill	in the blanks:	4	
	(i)	header file contains mathematical functions.		
	(ii)	A global variable is also known as variable.		
	(iii)	Every program statement must end with		
	(iv)	The function is used to display output on the screen.		
(b)	Atte	Attempt any two from the following		
	que	stions:		
	(i)	What is a flow- chart? Discuss about various symbols used to draw a flow chart with suitable example.		
	(ii)	Discuss about primary data types in 'C' language.		
	(iii)	Explain basic structure of 'C' program.		

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J-2551]		ontd	GU-	2551]	3 [Contd	•
	(iii) For loop.					
	(i) If else statement(ii) Do while statement				given three numbers.	
(b)	Write short notes: (any two)	8			(iii) Write a C program to find largest of	
	is executed n times, the test condition is evaluated times.	5			convert into years, months and remainder days.	
	known as loop. (iv) In the entry controlled loop, if the bod	v			(ii) Write a C program to enter days and	
	(iii) A for loop with the no test condition i	s			interest I= PRN/ 100.	
	(ii) The expression ! (x ! = y) can be replaced by the expression	е			(i) Write a C program to evaluate simple	
	(i) The operator is true only when both the operands are true.	n	5	(a)	Write complete C programs (any two))
(a)	Fill in the blanks:	4			string variables.	
	functions with suitable examples.				(iii) Discuss about declaring and initializing	
	(iii) Explain getchar () and putchar ()			(ii) Explain streat () and strepy () functions.	
	(ii) Explain increment and decremen operators with suitable example.	t			with suitable examples.	
	examples.				(i) Discuss about one dimentional arrays	
	(i) Explain relational operators with suitable	e			questions:	
(b)	Attempt any two from the following questions:	8		(b)	Attempt any two from the following 8	j
Santoni	(if $a=5$, $b=10$ and $c=-6$)				(iv) Print f ("\ n ");	
	(iv) The value of logical expression a < b & 8 a > c =	&			(iii) Print f (" % - 25.105 ", string);	
					(ii) Print f (" % 25.105 ", string);	
	of bytes the operand occupies. (iii) The value of expression 25/3 % 2 =	=			(i) Print f (" % s ", string);	
	with real operands. (ii) The operator returns the number	r			output of the following statement will be,	
	(i) The operator cannot be used		,*	(a)	value "The sky is the limit ", determine what	
(a)	Fill in the blanks:	4	4	(a)	Assuming the variable string contains the	



GU-2552 Seat No. B. C A. (Sem. I) Examination

November/December - 2013 BCA - 102: Database Management System

(CC) (New Course)

Time: 3 Hours

[Total Marks: 70

4

- Do as directed: 1 (a)
 - List out types of user
 - (ii) Define term: Data integrity
 - (iii) What is DBMS?
 - (iv) What is Metadata?
 - Attempt following: (any two) 14
 - Who is DBA? Describe role of DBA in detail.
 - (ii) Describe the functions of DBMS? Discuss the advantages and disadvantages of DBMS.
 - (iii) Write down the components of DBMS & discuss it in detail.
- Do as directed: 2

Define: Foreign key

- (ii) "Tuple" is unother name of "Row" in DBMS. (true / false)
- (iii) What is domain?
- (iv) What is primary key?
- What is candidate key?

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1

[Contd...

5

Attempt following (any two) 12 Exaplain special relation operations with example. Explain the architecture of D.B.M.S. in detail. (iii) Explain relational model in detail with example and discuss its advantages and disadvantages. Do as directed: List out: types of relationship between entity. (ii) Define term : composite attribute (iii) What is normalisation? (iv) What is full form of : BCNF. Attempt following: (any two) 14 (i) What is entity? Discuss all type of entity with example. (ii) What is Relationship? Explain it's types with exmaple? What 1st and 2nd normalisation process? Discuss each in detail with one example? Do as directed: 5 What is MS- Access? What is memo? (iii) Define term: Autonumber. (iv) What is default format of time and system date? (v) What value the Boolean data type gives? Attempt following: (any two) 12 What is form? Explain steps to create report in detail. Explain elements which are used in form and report designing in detail. (iii) Discuss the all data types of MS- Access in detail.

2



GU-2553 Seat No.

B. C. A. (Sem. I) Examination

October/November - 2013

BCA - 103: Computer Organization

(CC) (New Course)

Time: 3 Hours]

[Total Marks: 70

- 1 (a) Do as directed:
 - Differentiate between digital and Analog computer system.
 - (ii) What is software?
 - (iii) What is Nibble?
 - (iv) List out the major part of digital computer.
 - (v) Full name of C.P.U.& A.L.U.
 - (vi) What is operating system.
 - (b) Answer any two:

12

- (i) Explain all merits and demerits of computer in details.
- (ii) Describe all Computer Generation.
- (iii) Explain classification of computer with main frame computer.
- 2 (a) Do as directed: (any three)

5

- (i) What is memory cell? List out types of memory cell.
- (ii) List out types of input devices.
- (iii) Full name: USB & DVD.
- (iv) Define the terms : Seek Time & Latency Time.
- (b) Attempt any two:

12

- (i) Explain Ram with types.
- (ii) Explain keyboard with diagram.
- (iii) Explain CRT monitor with internal structure of CRT.

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1

[Contd...

(a)	Atte	mpt any three.	6	
	(i)	Binary subtraction:		
		(101111-10101)		
	(ii)	List out number system with example.		
		Conversion of $(ABCD.EF)_{16}$ to $(?)_2$.		
		Conversion of $(634.35)_8$ to $(?)_2$		
(b)		mpt any four:	12	
-N X		Conversion of (90 BF. AC) ₁₆ to (?) ₁₀ .		
		Conversion of (1093.6) ₁₀ to (?) ₁₆		
		Conversion of $(54442)_8$ to $(?)_2$ & $(?)_{16}$		
		Conversion of (101110.11) ₂ to (?) ₁₀		
		Binary Addition:		
	8 2	1110111,101		
		+ 1010010.101		
(a)	Do a	as directed: (any two)	ŧ	
	(i)	List out Logic Gates. Explain any one.		
	(ii)	Add 3 and 2 in XS-3 code.		
	(iii)	Explain NOR Gate.		
(b)	Attempt any two:			
	(i)	Explain full Adder in detail.		
	(ii)	Explain 3 to 8 line decoder.		
	(iii)	Explain EX-OR and EX-NOR Gates.		



GU-2554 Seat No.

B. C A. (Sem. I) Examination

November / December - 2013

BCA - 104: Communication Skills - I

(CC) (New Course)

Time: 3 Hours]

[Total Marks: 70

1 (a) (i) Discuss various barriers to 6×3=18 communication.

OR

- (ii) What is communication? Define and explain.
- (b) (i) Write a detailed note on process of communication.

OR

- (ii) What is the importance of feedback in communicatio? Explain in detail.
- (c) (i) Discuss the types of communication.

OR

- (ii) What should we do for improving our communication? Give your suggestions.
- 2 Do as directed:

4+4+9=17

- (a) Change into indirect speech:
 - (i) Rahul said to Mehul, "I am watching Tv now"
 - (ii) She said to me, "I have submitted my project "
 - (iii) The doctor said to the patient, " Do not eat Ice-cream."
 - (iv) Vaibhavi said to me, " Have you taken your breakfast?

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		(change the voice))		Solve them :	
	(ix)	Do you attend lectures daily ?			(iii) Global warming's causes and solve them ?	
š	(viii)	Your transaction is being process ATM. (change the voice)	ssed by	(e)	Write an essay on any one of the (i) Internet: use & misuse (ii) Role of the youth in nation-	
		(change the voice)		OZC AC	(ii) Prohibition	0.33
	(vii)	The company has selected you.		(d)	La company of the com	
	(vi)	Apple manufacture I-phones. (change the voice)		(c)		
	(v)	AAP party win the As election in Delhi. (modal)	ssembly	(e)	(i) One who journeys to sacred(ii) Want of rain.(iii) A person sacrificing life for	ě
	V . X	(modal)	years.	(b)	(flour / floor)	
		I not drive a car befor 2	2 vears.		(ii) Dengue is a (decea (iii) My uncle lives on 3rd	se / disease)
	(iii)	You take rest. (modal)			(besides / beside)	
	(ii)	I read Indian Express (article)	daily.		as directed: Choose correct word: (i) He is sitting Rosha	3+3+2+2+7=17
	(i)	Bajirav Singham is honest (article)	officer.		refrigerator, on behalf of Mod Electronics, Visnagar.	ern Tech.
(c)	Fill	in the blanks with proper answe	rs:	(0)	Mumbai about various types of	T.V. and
	(iv)	My mother at 5 a.m dai	ly. (get up)	(e)	laptops to LENOVO CO., Mumb	ai.
	(iii)	We not the assign: (submit)	ment yet.	(c) (d)	about your order of calculators	
		afternoon. (play)			CG road, Ahmedabad, for orderin smart phones.	
	(ii)	Ritesh videogame since	e	(b)	Write a letter to Samsung mobile	,
(b)		in the blanks with proper verb f I did not your call y (recieve)			on behalf of Navneet publishers, voluntary offer letter for Gala dic	