

JAG-1601 Seat No._____

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

November / December - 2012

BCA-101: Fundamentals of Programming Language 'C'

JAG-160	1]	1 [Contd	l
	(iii)	b > 15 && C < 0 a > 0	
	(ii)	$a = = c \mid\mid b > a$	
	(i)	a > b & & a < c	
	logic	eal expression if $a = 5$, $b = 10$ and $c = -6$	
2 (a)	Dete	ermine the value of each of the following	3
	(iv)	What is a variable? Discuss about rules for naming variables.	
	(iii)	Describe basic data types available in C language.	
	(ii)	Discuss about basic structure of C programs.	
		various symbols to draw a flow-chart.	
(D)	(i)	What is a flow-chart? Discuss about	9
(b)	Ana	wer the following questions : (any three)	9
	(iii)	A global variable is also known as	
	(ii)	mathematical functions.	
	(ii)	must end with a The header file contains	
1 (α)	(i)	Every program statement in a C program	
1 (a)	Fill	in the blanks.	3
Time : 3	Hou	rs] [Total Marks : 7	70

JAC	3-160°	1]	2 [Contd	
		(i)	is the process of arranging the elements of an array in order.	
4	(a)	Fill	in the blanks:	4
		(iv)	Explain break and continue statements.	
		(iii)	Distinguish between Entry controlled loop and Exit-controlled loop with example.	
		(ii)	Explain the Switch statement.	
		(i)	Explain the IF-Else statement.	
	(b)		wer the following questions: (any three)	9
		(iii)	The statement is used to skip a part of the statements in a loop.	a
		(ii)	The expression $?(x?=y)$ can be replaced by the expression	
		(i)	The operator is true only when both the operands are true.	
3	(a)		in the blanks:	3
			(c) 10 TRUE 20	
			(b) 123 1.23 45A	
			(a) 78 B 45	
		(iv)	Write scanf statements to read the following data lists.	
		(iii)	Explain getchar () and putchar () functions.	
		(ii)	Explain Increment / Decrement operators in C.	
		(i)	Explain Arithmetic operators in C.	
	(b)	Ans	wer the following questions: (any three)	9

		(ii)	An array can be initialized either at compile time or at
		(iii)	The variable used as a subscript in an array is popularly known as variable.
		(iv)	An array that uses two subscript is referred to as array.
	(b)	Ans	wer the following questions: (any two) 8
		(i)	Write short note on one dimensional array.
		(ii)	Explain the following functions.
			(a) streat ()
			(b) stremp()
		(iii)	Write short note on table of strings.
5	(a)	Writ	te complete C programs : (any two) 10
		(i)	Write a program to calculate simple
			interest using formula $I = \frac{P * R * N}{100}$.
		(ii)	Write a program to read the price of an item in decimal form (like 15.95) and print the output in paise (like 1595 paise).
		(iii)	Write a program to read three values and print the following results.
			(a) Sum of values
			(b) Average of values.
	(b)	Writ	te complete C programs : (any two) 12
		(i)	Write a program to display largest of three given numbers.
		(ii)	Write a program to reverse the digits of

the given number.

(iii) Write a program to print following output using for loop.

- 2 2
- 3 3 3
- 4 4 4 4
- 5 5 5 5 5



JAG-1602 Seat No._____

B. C. A. (Sem. I) Examination November / December - 2012

BCA-102: Database Management System

Tim	e: 3	Hours]	[Total Marks : 70
1	(a)	Define following terms:	6
		(i) Consistancy	
		(ii) Redandancy	
		(iii) Integrily	
	(b)	Attempt any two:	12
		(i) Explain characteristics of	DBMS ?
		(ii) Explain role of DBA?	
		(iii) What is DBMS? Explain and list advantage and d	<u>-</u>
		it?	
2	(a)	Define following terms:	5
		(1) Mapping	
		(2) Domain	
		(3) Schema	
		(4) Primary key	
		5) Jain operator	
	(b)	Attempt any two:	12
		(1) Discuss the three levels of DBMS.	of the architecture
		(2) What is Data Model? Exmodel with advantages as	
		(3) Explain special relational detail.	_

3	(a)	Answer the following:	6
	, ,	(1) What is Denarmalization?	
		(2) Explain MVD ?	
		(3) Explain Entity with its type?	
	(b)	Attempt any two:	12
	, ,	(1) What is E-R model? Explain with its components.	
		(2) Discuss all symbols of E-R diagram.	
		(3) Explain 1 NF and 2 NF in detail.	
4	(a)	Answer the following:	5
		(1) What is auto number?	
		(2) List out types of Query?	
		(3) What is Macro?	
		(4) What is MS Access?	
		(5) What is the extensions of MS Access database?	
	(b)	Attempt any two:	12
	` /	(1) Explain database of MS Access.	
		(2) Write down all steps for creating databa	ase
		in MS Access.	
		(3) What is repart? Write down steps to	
		create repart in MS Access.	



JAG-1603 Seat No.

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

November / December - 2012

BCA-103: Computer Organization

[New Course]

Time: 3 Hours [Total Marks: 70 Attempt following: 1 (a) 6 (i) What is DOS? (ii) Define: Control unit. (iii) What is system software? (iv) Define: Hardware. (v) What is operating system? (vi) Define: Fifth generation computer system. Attempt the following: (any two) (b) 12 Explain major parts of computer. (i) (ii) Discuss classification of computer in detail. (iii) Explain logical level and pulse wave forms? Attempt following: 2 (a) 5 What is cache memory? (i) (ii) Differentiate between RAM and ROM. (iii) Give the full forms of : CRT, LCD. (iv) Define: Flash memory. Differentiate between Switch and Hub. (v)

(b)	Atte	empt following : (any two)	12
	(i)	List out all input devices, and describe detail on Touch Screen.	
	(ii)	What is printer? Discuss all types of printer?	
	(iii)	What is storage device? Discuss Hard di with it's diagram.	isk
(a)	Do a	as directed :	6
\	(i)	Convert $(4507)_8$ to Binary.	
	(ii)	Convert (DCA.A) ₁₆ to octal.	
	(iii)	15-20 (cuse 1's complement method for subtraction.)	
(b)	Atte	empt following: (any four)	12
	(i)	Explain the number system.	
	(ii)	Convert $(100.3)_{10}$ to Binary.	
	(iii)	Convert (127.8) ₈ to Decimal.	
	(iv)	Add 101101.0011+100101.001.	
	(v)	Convert $(11011.10110)_2$ to Hexadecimal.	
(a)	Atte	empt following:	5
	(i)	Define: 8421 BCD code.	
	(ii)	Define: Complement gate.	
	(iii)	Define: NAND gate.	
	(iv)	What is combination circuit?	
	(v)	What is Decoder?	
(b)	Atte	empt following: (any two)	12
	(i)	What is logic gate? Discuss AND and C gate in detail.	$^{ m R}$
	(ii)	Explain 8 to 3 line Encoder in detail.	
	(iii)	Write a short note on : Full adder.	

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JAG-1603-R Seat No.____

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

November / December - 2012

BCA-103: Computer Organization

[New Course]

Time	e : 3	Hours] [Total Marks : 70
1	(a)	Attempt following: (i) What is DOS? (ii) Define: Control unit. (iii) What is system software?
		(iv) Define: Hardware.(v) What is operating system?(vi) Define: Fifth generation computer system.
	(b)	Attempt the following: (any two) (i) Explain major parts of computer. (ii) Discuss classification of computer in detail. (iii) Explain logical level and pulse wave forms?
2	(a)	Attempt following: (i) What is cache memory? (ii) Differentiate between RAM and ROM. (iii) Give the full forms of: CRT, LCD. (iv) Define: Flash memory. (v) Differentiate between Switch and Hub.

(b)) Atte	empt following : (any two)	12
	(i)	List out all input devices, and describe detail on Touch Screen.	
	(ii)	What is printer? Discuss all types of printer?	
	(iii)	What is storage device? Discuss Hard dwith it's diagram.	lisk
(a)) Do a	as directed :	6
	(i)	Convert $(4507)_8$ to Binary.	
	(ii)	Convert (DCA.A) ₁₆ to octal.	
	(iii)	15-20 (cuse 1's complement method for subtraction.)	
(b)) Atte	empt following: (any four)	12
	(i)	Explain the number system.	
	(ii)	Convert (100.3) ₁₀ to Binary.	
	(iii)	Convert (127.8) ₈ to Decimal.	
	(iv)	Add 101101.0011+100101.001.	
	(v)	Convert $(11011.10110)_2$ to Hexadecimal.	
(a)) Atte	empt following:	5
	(i)	Define: 8421 BCD code.	
	(ii)	Define: Complement gate.	
	(iii)	Define: NAND gate.	
	(iv)	What is combination circuit?	
	(v)	What is Decoder?	
(b)) Atte	empt following: (any two)	12
	(i)	What is logic gate? Discuss AND and ogate in detail.	ЭR
	(ii)	Explain 8 to 3 line Encoder in detail.	
	(iii)	Write a short note on : Full adder.	

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JAG-1604 Seat No._____

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

November / December - 2012

BCA-104: Communication Skills - I

Time: 3 Hours] [Total Marks: 70

1 (a) What are the barriers to communication? **6×3=18** How can one overcome them?

OR.

- (a) Write about verbal and non-verbal communication.
- (b) What are the features of good and effective communication? Discuss.

OR

- (b) Discuss about the process of communication.
- (c) Write note on any two of the followings:
 - (1) Importance of feedback in communication.
 - (2) What is communication? Define it and explain.
 - (3) Interview.
 - (4) Presentation.

Do as directed :		rected :	Each 1 mark =	= 17
(a)	Put	proper article		
	(1)	Copper is	useful metal	
	(2)	I will return after	hour	
	(3)	We should not laug	h at handicap	ped.
(b)	Cha	ange the voice.		
	(1)	He broke the glass	;	
	(2)	Sachin is throwing	the ball	
	(3)	Close the door		
(c)	Fill	in the blanks		
	(1)	you show station? (would, sh	•	
	(2)	You look l	before you leap. (should	l ,
	(3)	The red light is on (should, would, mu	. You stop.	
	(4)	The sky is full of conight. (can, may,	clouds. If rain should)	
(d)	Fill	in the blanks with	proper verb form.	
	(1)	She is crying becarrupee note. (to lose	use she a five e)	<u>;</u>
	(2)	She for to to wait)	he guests since mornin	g.
	(3)	Tune down the T.V (to worship)	V. Father God	l .
	(4)	We the fi	lm yeasterday. (to see)	

 $\mathbf{2}$

- (e) Turn into indirect speech:
 - (1) The teacher said to the students, "Read the question paper carefully".
 - (2) He said, "what a lovely sun-set!"
 - (3) Sudha said, "I wrote my lesson yesterday".
- 3 Answer any three of the followings: $6\times3=18$
 - (1) Royal Furniture, Baroda wishes to purchase steel furniture from Uttam steels, Mumbai.
 - (2) Sahyog Club, Himmatnagar has decided to give wall-clocks to each of its 150 members. Draft a letter from the scretary of the club to QUARTZ PALACE, Morbi asking quotation for 150 Quartz wall clocks.
 - (3) As a partner of Manoj Provision Stores, station Road, Surat, draft a letter ordering fifty boxes of chocolates and sweets from S. Mukharji and Co., 8-S.V. Road, Mumbai.
 - (4) Vaishali Saree Centre, Tower Road, Idar has received the silk sarees defective in colour and design. Write a letter of complaint to Vaibhav Silk Emporium, Surat on behalf of Vaishali Saree Centre.
 - (5) You have received a letter asking quotation for face powder and cosmetic items from Niki Beauty shop, Mahavir Nagar, Himmatnagar. Draft a suitable replay on behalf of Asha Trading and Manu., Near Law Garden, Ahmedabad.

Do a	as dir	rected:	17
(a) Ch		ose correct word and fill in the blank:	3
	(1)	helping me with money, he gave me medicines. (Beside, Besides)	
	(2)	During the half of the year the production went up considerably. (later, latter, letter)	
	(3)	For rural development we need an army of workers. (zealour, jealous)	
(b) Write one word substitute for a group of		te one word substitute for a group of words:	3
	(1)	An act of killing oneself.	
	(2)	Something which can be eaten.	
	(3)	One who lives on vegetable.	
(c)	Wri	te antonyms - (1) Fresh (2) Guest.	2
(d)	Wri	te synonyms - (1) Alter (2) Furious.	2
(e)	Wri	te an essay on any one of the followings :	7
	(1)	My aim in life	
	(2)	Books-our never failing friends.	