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	Hall	Ticket No									Qu	estion P	aper Code:	CMB312
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			MBA	II S	emeste	r En	d Ex	amir	nations	s (Regula	ar) - July	, 2017		
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				(1)	Taster				ammi s Adı	ing ministr	ration)			
Tin	ne:	3 Hours		(14	100001	01 1		11100	5 1101		αυιοπ)		Max Ma	arks: 70
				Aı	nswer	ONI	E Qı	uest	ion fr	om eac	h Unit			
		4.11			All Q	uest	ions	Ca	rry E	qual Ma	arks			
		All p	arts	of t	he que	estio	n m	ust	be an	swered	in one	place o	nly	
							U	NII	$\Gamma - I$					
1.	(a.)	Discuss the co	ncent	t of i	mplicit	tvne	e con	vers	ion with	th a suit	ahle eva	mnle		[7M]
Τ.		a) Discuss the concept of implicit type conversion with a suitable example.b) Write a C program that calculates and prints the average of entered integers. Assume the												
	will enter control-d to end the input.											[7M]		
		Sample Run:												
		Enter an integer (control d to end): 23												
		Enter an integer (control-d to end): 123 Enter an integer (control-d to end): 45												
		Enter an integ						7						
		Enter an integ												
	Enter an integer (control-d to end): 098 Enter an integer (control-d to end):													
		The average is)1-a to	ena):								
9	(a)				or or s	tovi	- nhr	aca 1	that ro	ade the	sama ha	ekwarde	ae forwarde	Write
4.	(a)	A palindrome is a number or a text phrase that reads the same backwards as forwards. Write a C program that reads in a five-digit integer and determines whether or not it is a palindrome.												
		Hint: Use the	t: Use the division and modulus operators to separate the number into its individual digits.											
		Sample Run 1		1	100	15								[7M]
		Enter a five-d 12345 is not a				45								
		Sample Run 2		10101	II.E									
		Enter a five-d		umbe	er: 123	21								
		12321 is a palindrome												
	(b) Discuss the concept of identifiers and data-types in C.													[7M]
								UNI	IT - I	I				
3.	(a)	With a suitab	le exa	ampl	e, discı	ıss th	ne fol	llowi	ng cat	egories o	of user de	efined fur	nctions in C	[10M]
		i. functions with arguments and return values												
	/1 \	ii. function			gumen	t and	retu	ırn t	ype		. (19			[47]



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4. (a)	The factorial of a integer N, denoted by N! is the product of all positive inte	gers less than or
	equal to N. Factorial does not exist for negative numbers and factorial of 0 is 1.	Write a recursive
	routine to compute factorial of a number. Write a test driver for the same.	[8M]

(b) What is an array? How is an array declared and initialized?

[6M]

UNIT - III

5. (a) Bring out the significance of pointers to void with a suitable example.

[8M]

(b) In C, a string can be referred either using a character pointer or as a character array. Explain it with examples.

[6M]

6. (a) Explain briefly pointer arithmetic in C with suitable examples.

[6M]

(b) What are the unformatted string input and output functions available in C? Is the input function safe? If yes, why and If no, Justify? [8M]

UNIT - IV

7. (a) With a suitable example explain the concept of typedef.

[6M]

- (b) A complex number is a number that can be expressed in the form a + bi, where a and b are real numbers and i is the imaginary unit, satisfying the equation $i^2 = -1$. Write a C Program to add two complex numbers by passing structure to a function.
- 8. (a) Write a C program using nested structures to read 3 employees details with the following fields; emp-id, name, designation, address, basic, da, hra and calculate gross salary of each employee. (Hint: gross salary = basic + da + hra).

[9M]

(b) Bring out the advantage of using Bit Fields in C with a suitable example.

[5M]

$\mathbf{UNIT} - \mathbf{V}$

9. (a) Why is fseek() preferred over rewind() in C?

[6M]

(b) Write a C Program to Copy Contents of one file to another file.

[8M]

10. (a) Discuss how reading and writing w.r.t binary file done in C.

[8M]

(b) Explain briefly fgets() and fputs() with an example.

[6M]

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