

www.FirstRanker.com

www.FirstRanker.com

	Hall	Ticket No						Τ				Question Paper Code: CM	/B319	
	110011	1101100 110									╛	gaostion rapor code. Cir	11012	
		٠												
	. MBA II Semester End Examinations (Supplementary) - January, 2018													
	Regulation:R16 C Programming													
					(1	Vlast						g iinistration)		
Γin	Time: 3 Hours Max Marks: 70													
					A							m each Unit ual Marks		
		A	ll pa	arts	of t	the c	luesti	on m	nust	be an	SW	wered in one place only		
								J	JNI	$\Gamma - I$				
1.	(a)	Explain the following with one example each.												
	i. Arithmetic operatorii. Relational operatoriii. Logical operator													
	(b)	(b) Design an algorithm to input temperature in degree Fahrenheit(F) and convert it to degree											degree	
		Centigrade	e(C)	usir			1000000000000000000000000000000000000						[7M]	
2.												ber is even or odd.	[7M]	
	(b)	Exemplify	the	itera	ative	stat	ements	s supj	porte	d by (JI	Language.	[7M]	
									UN	[T-]	Ί			
3.	(a)	Differentia	ite c	all b	y va	lue a	nd call	by r	efere	nce us	ag	ge to swap two numbers	[7M]	
	(b)	What is an	n arı	ray?	Hov	v 1-d	and 2	-d arı	rays	are de	cla	ared and initialized. Give example for	each. [7M]	
4.	(a)	List and d	iscus	ss th	e ca	tegor	ies of f	uncti	ions (conside	eriı	ing the parameter passing and return v	values.	
	(b)	Develop a	Ср	rogr	am t	o fin	d the s	sum c	of pri	ncipal	di	iagonal elements of a square matrix.	[7M]	
									UNI	$\mathbf{T} - \mathbf{I}$	II			
5.	(a)	i. strcat ii. strstr(()	llow	ing s	tring	handl	ing fu	uncti	ons wi	th	n proper examples:	[7M]	
		iii. strcm	p()											



www.FirstRanker.com

www.FirstRanker.com

(b) Evaluate the following [7M]

Table '

main()	main()
{	{
int *ptr;	int a=10;
int arr $[]=1,2,3,4;$	int *ptr=&a
ptr=arr;	void *vptr=ptr;
printf("%d%d",arr[2],ptr[2]);	*ptr++;
}	*vptr++;
	printf("the values are %d%d",*ptr,
	vptr);
	}

6. (a) Discuss the following with suitable examples

[7M]

i. Array of pointers

ii. Pointer to function

(b) List the functions used for various memory allocations supported by C and give one example for each. [7M]

UNIT - IV

7. (a) Discuss how structures and unions are declared, initialized and its members accessed. [7M]

(b) Write short note on the following

[7M]

i. typedef

ii. enumerations

iii. bit fields

8. (a) Develop a C program which does the following:

Define a structure 'student' with details like student name, marks for 3 subjects and total marks. Read marks for 3 subjects of 'n' students. Calculate the total mark of each student and store them. Display the details of the student who scored the highest marks. [7M]

 ${\rm (b)}\ \ {\rm Give\ a\ typical\ example\ for\ nested\ structures,\ arrays\ of\ structures,\ and\ arrays\ within\ structures.}$

[7M]

UNIT - V

9. (a) Discuss the following file handling functions with suitable examples.

[7M]

i fread()

ii fwrite()

iii fseek()

iv ftell()

- (b) Develop a C program to create two files STD-DETAILS (Student Name, Student ID, and Semester) and STD-MARKS (Sub1, Sub2, and Sub3). Concatenate the two files and display the contents from the concatenated file [7M]
- 10. (a) Discuss the primary advantages of using a data file. Describe various file operations and demonstrate the various file accessing modes. [7M]
 - (b) A file named DATA contains a series of integer numbers. Code a 'C' program to read these numbers and then write all 'odd' numbers to a file to be called ODD and all 'even' numbers to a file to be called EVEN.

 [7M]