Printed Page:- 04	Subject Code:- AMCA0101			
	Roll. No:			
NOIDA INSTITUTE OF ENGINEERING	AND TECHNOLOGY GREATER NOIDA			
(An Autonomous Institute A				
MCA				
SEM: I - CARRY OVER THEOR	Y EXAMINATION -JUNE 2023			
Subject: Fundamental of Com	puters and Programming in C			
Time: 3 Hours	Max. Marks: 100			
General Instructions:				
IMP: Verify that you have received the question po				
1. This Question paper comprises of three Sections (MCO's) & Subjective type questions	t ions -A, B, & C. It consists of Multiple Choice			
Questions (MCQ's) & Subjective type questions. 2. Maximum marks for each question are indicate	d on right, hand side of each question			
2. <i>Maximum marks for each question are indicate</i> 3. <i>Illustrate your answers with neat sketches where</i>				
4. Assume suitable data if necessary.	sver mecessary.			
5. Preferably, write the answers in sequential orde	r.			
	en material after a blank sheet will not be			
evaluated/checked.	0.0			
SECTIO	N A 20			
1. Attempt all parts:-				
1-a. Programmers write the programs in v	which language? (CO1)			
(a) Low-level Language				
(b) High-Level Language				
(c) Decimal-Format				
(d) Middle-Level Language				
1-b. What is the correct syntax to declare a	a variable in C? (CO1)			
(a) Data_type Variable_name;				
(b) Data_type as Variable_name	; ;			
(c) Variable_name as Data_type;				
(d) Variable_name Data_type;				
1-c. Two different operators would always	have different Associativity. (CO2)			
(a) Yes				
(b) No				
(c) May Be				
(3)				

	(d) Not Clear	
1-d.	Choose a correct statement about a C Switch Construct. (CO2)	1
	(a) Default case is optional inside switch.	
	(b) Break; causes the control to exit the switch immediately and avoid down to other CASE statements.	fall
	(c) You can not use duplicate CASE Constants inside a Switch construct.	
	(d) All the above.	
1-e.	Which of the following is not a storage class specifier in C? (CO3)	1
	(a) Volatile	
	(b) Extern	
	(c) Auto	
	(d) Register	
1-f.	What is the scope of extern class specifier? (CO3)	1
	(a) Within block	
	(b) Within Program	
	(c) Global Multiple files	
	(d) None of the above	
1-g.	Presence of code like "s.t.b = 10" indicates (CO4)	1
	(a) Syntax Error	
	(b) Structure	
	(c) Double data type	
	(d) An ordinary variable name	
1-h.	It is not possible to create an array of pointer to structures. (CO4)	1
	(a) TRUE	
	(b) FALSE	
	(c) May Be	
	(d) Can not Say	
1-i.	Which function is used to delete the allocated memory space? (CO5)	1
	(a) Dealloc()	
	(b) Free()	
	(c) Both	
	(d) None of the above	
1-j.	A mode which is used to open an existing file for both reading and writing	1

	(a) "W"	
	(b) "W+"	
	(c) "R+"	
	(d) "A+"	
2. Atten	npt all parts:-	
2.a.	Draw a flowchart to calculate simple interest. (CO1)	2
2.b.	Explain operator precedence in C. (CO2)	2
2.c.	Define sub programming concept? (CO3)	2
2.d.	Explain puts() function with suitable example. (CO4)	2
2.e.	Explain #include function with suitable example? (CO5)	2
	SECTION B	30
3. Answ	er any <u>five</u> of the following:-	
3-a.	Define flowchart with its symbols and also give one example. (CO1)	6
3-b.	Explain error. Write down any two errors with example.(CO1)	6
3-c.	Demonstrate how can we pass an array in function as a parameter. (CO2)	6
3-d.	Differentiate between conditional and looping statement in C. (CO2)	6
3.e.	Define Function prototyping. Differentiate between formal and actual parameter. (CO3)	6
3.f.	Describe how to initialize a string and how to access a string using a loop. (CO4)	6
3.g.	Define Macro in C with the help of suitable example. (CO5)	6
	SECTION C	50
4. Answ	er any <u>one</u> of the following:-	
4-a.	Write down the steps of transition from algorithm to program with the help of suitable example (CO1)	10
4-b.	Explain the flow of execution process of "C" program. (CO1)	10
5. Answ	er any <u>one</u> of the following:-	
5-a.	Describe nesting of following control statements with example: 1. While loop 2. For loop. (CO2)	10
5-b.	Explain following operator: 1. logical operator 2. sizeof() operator 3. reference & dereference operator 4. ternary operator. (CO2)	10
6. Answ	er any <u>one</u> of the following:-	

___ (CO5)

6-a.	Explain function and its types with suitable example.(CO3)	10
6-b.	Explain pointer with suitable example. Describe referencing and dereferencing (CO3)	10
7. Answ	er any <u>one</u> of the following:-	
7-a.	Write a program in C to count total number of alphabets, digits and special characters in a string. (CO4)	10
7-b.	Write a program in C to store information of 3 students using structure. (CO4)	10
8. Answ	er any <u>one</u> of the following:-	
8-a.	Explain different categories of pre-processor directives used in C. (CO5)	10
8-b.	Write a program to append the contents of stored file. (CO5)	10
C	OP 2022-23 July J.	