Unit 3

٨	Λ	ulti	ple	Cho	ice	Ou	estio	ns
.,	•	uiti	PiC	C110		Qα.		

1 _____loop execute at least once.
a) while loop b) **do...while** c) if d) for

2	For declaring one- dimensional arra		_subscript is use.	
	1) One	2) Two		
	3) Three	4) All of above	re	
3	Index ualue in array is also called		_	
	1) Element	2) Number		
	3) Subscript	4) Element a	nd number	
4	For declaring two- dimensional array	/	subscript is use.	
	1) One	2) Two	•	
	3) Three	4) All above		
5	In Array subscript can begin with nu	,		
	1) Zero	2) One		
	3) Three	4) None of th	ese.	
6	For Initialization of array list of value	,		
	1) Question marks (?)			
	3) Exclamatory marks (!)	•		
7	An array can be initialize either at co	•		
	1) Run Time	3) Allocation		
	3) Released Time	4) Not of abo		
8	'\0' is	,		
	1) Null Character	2) Character	value	
	3) Escape sequence	4) Symbolic (
9	In two dimensional array the first sul			size.
	1) Row	2) column		_
	3) Vector	4) All of abov	re	
10	In two dimensional array the second			size.
-	1) Row	2) column		

Short Questions (2 Marks)

3) Vector

- 1 Explain break and continue statement in C.
- **2** Explain do-while statement with example.
- **3** Explain break statement with example.
- 4 Write difference between break and continue.
- 5 Write difference between exit and entry controlled loop.
- 6 What is array? List out the type of array use in c programming.
- What is an array? Write syntax to declare 1D array in c. also give one example.

4) All of above

- **8** Write the syntax of compile time initialization of 1D array in c.Also give example.
- **9** What is an array? Write syntax to declare 2D array in c. also give one example.
- **10** Explain the gets () function.
- **11** Explain the puts () function.

Long Questions (4/8 Marks)

- 1 Explain looping statement with syntax and example.
- **2** Explain while and for loop with syntax and example.

3	Write difference be	ween do-while,	, while and for loop.	
---	---------------------	----------------	-----------------------	--

- **4** Define 1D array? Explain the declaration and initialization of 1D array with syntax and example.
- **5** Define 2D array? Explain the declaration and initialization of 2D array with syntax and example.
- **6.** Explain following function with syntax and example.
 - 1. strcmp()
 - 2. strrev()
 - 3. strcpy ()
 - 4. strcat()
 - 5. strlen()

MCQ	Based	on	String	
	Daseu	OH	Juling	

2

3

5

3) Three

1	A group of characte	is known as
---	---------------------	-------------

1) String	2) Array	
3) Function	4) All of above	
When we declare string	data type is use.	
1) int	2) char	
3) float	4) All of above	
A group of character in string defines	in	_quotation marks
1) Single	2) Double	•

4) Multi

4 The ____string function is use to joins two string.

1) strcat()	2) strlen()
3) strupr()	4) strrev()
strcmp () function is use for	two string.
4\ 0	0) ! !

- 1) Concate 2) Join 3) **Compare** 4) All of above
- Assign the value of one string into another string ______function is use.
 - 1) **strcpy()** 2) strlen()
 3) strupr() 4) strrev()
- 7 _____ function count and return the number of character in a string.
 - 1) strcpy() 2) **strlen()**3) strupr() 4) strrev()
 - 1. Which operator is used with a pointer to access the value of the variable whose address is contained in the pointer?
- A. Address (&) C. Indirection (*)
- B. Assignment (=) D. Selection (->)
 - 2. int a, *p = &a;

Which of the following statement will not add 1 to a variable?

A. a++; C. *p = *p + 1;

B. a += 1;

D. **p++;**

3. Given the following declarations:

int x; double d; int *p; double *q;

Which of the following expression is allowed?

A. $\mathbf{p} = \&\mathbf{x}$;

C. q = &x;

B. p = &d;

D. p = x;

4. Which of the following defines a pointer variable to an integer?

A. int &ptr;

C. int **ptr;

B. int *ptr;

D. int &&ptr;

5. Which of the following defines and initializes a pointer to the address of x?

A. int *ptr = x;

C. <u>int *ptr = &x;</u>

B. int &ptr = x;

D. int *ptr = x ;

6. Pointers to pointers is a term used to describe

A. Any two pointers that point to the same variable

B. Any two pointers that point to variables of the same type

C. Pointers used as formal parameters in a function header

D. Pointers whose contents are the address of another pointer

7. Given the definitions shown below, which answer is not valid?

int i; float f; int *pd; float *pf;

A. pd = pf;

C. i = 5;

B. pd = &i;

D. pf = &f;

8. Which of the following is invalid? If p1 and p2 are properly declared and initialized.

A. x=*p1 * *p2;

C. p1++;

B. x = p/3;

D. p2 - p1;

9. Which of the following is valid? If p1 and p2 are properly declared and initialized.

A. p1/p2

C. p1 + p2

B. p1 * p2

D. p1 / 3

10.malloc() function sets the initial value in memory as

A. zero

C. garbage

B. NULL

D. None of these

11. If a is declared as integer, which of the following statement is false?

- A. The expression *&a and a are the same.
- B. The expression *&a and &*a are the same.
- C. The expression int p = a is valid.
- D. printf("%d",*&a); will print value of a.
 - 12. Which of the following is not a C memory allocation function?

A.	malloc()	C.	calloc()
B.	realloc()	D.	alloc()

- 13.Indicate which of the following function call that return multiple values through pointer.
- A. j = sum (&i, &j);
- C. i = sum (10,34);
- B. i = sum(i, &j);
- D. j = sum (pi, pj);

14. Which of the following pointer expression is not wrong?

- A. y = *p1 * * p2;
- B. Comparison like: p1>p2, p1==p2, and p1!=p2
- C. sum+=*p2;
- D. z = 5* *p2 / *p1;

Short Questions unit 4

- 1. Define: indirection operator, pointer variable
- 2. Give the concept of pointers to array.
- 3. Differentiate between "and "and "arong operators in pointers."
- 4. Explain free() function.
- 5. Differentiate malloc() and calloc().
- 6. Explain how compile time and runtime memory allocation process differ?
- 7. Differentiate: a pointer and a pointer variable
- 8. List out 4 benefits of pointers.
- 9. List different pointer declaration style. Which one is preferable?
- 10. What is scale factor? Explain with example in brief.

Long Questions

- 1. Define pointer variable. How can we declare and initialize pointer variable? How can we access value of variable through pointer type variable?
- 2. What are pointers? How can they be used with arrays? Explain pointer to an array using appropriate examples.
- 3. Explain the importance of pointers in functions by taking suitable example. How pointers can be used to return multiple values to functions?
- 4. Write a note on Dynamic memory allocation.
- 5. Explain pointer arithmetic with example.
- 6. Write note on: pointer to pointer