Reg.No: **G.T.N.ARTS COLLEGE (Autonomous)** (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] **INTERNAL ASSESSMENT TEST – I** Class Date: 16.08.19 : II BCA (A&B) Course Code : 17UCAC31 Time: 12.00-01.00 PM Title of the Paper : Data Structure Max Marks: 30 Section A 6X1=6 Answer ALL the Questions 1. The set of operations AND, OR & NOT can be performed on data type. a) Integer b) Character c) Boolean d) Real 2. Array is an example of datastructures. a) Compound b) Primitive c) Non-Linear d) Native 3. The special delimiter character in string is a) \o b) | c). d) & 4. In C++ memory reallocation is done by a) release b) delete c) free d) exit 5. A ______ function returns the top element without removing it from the stack

a) showTop(s) c) showstack(s) d)display(s) b) pop(s)

6. Dynamic memory allocation can be done using.

a) Stack b) Static array d) Oueue c) Linked List

Answer ALL the following questions

7 a) Euclaim the Encoded type of matrices $(\Omega_{\rm m})$

Section B

b) Describe one dimensional array with example.	
8. a)Write a short note on Circular Linked List. b) Describe ADT stack operations with example	(Or)
Section C	
Answer ANY one of the following	
9. Explain Singly Linked List in detail. (OR)	

10. Explain linked list representation of stack in detail.



2X7=14

1X10=10

G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] **INTERNAL ASSESSMENT TEST – I** Class : II BCA (A&B) Date: 16.08.19 Course Code : 17UCAC31 Time: 12.00-01.00 PM Title of the Paper : Data Structure Max Marks: 30

Section A

Answer ALL the Que	stions		6X1=6
1. The set of operations	S AND, OR & NC	T can be performed	d on data type.
a) Integer	b) Character	c) Boolean	d) Real
2. Array is an example	of data	structures.	
a) Compound	b) Primitive	c) Non-Linear	d) Native
3. The special delimite	character in strin	ig is	-
a) \o	b) c) ,	d) &	
4. In C++ memory real	location is done b	У	
a) release	b) delete	c) free	d) exit
5. Afunction	returns the top el	ement without rem	oving it from the stack
a) showTop(s)	b) pop(s)	c) showstack(s)	d)display(s)
6. Dynamic memory a	location can be de	one using.	
a) Stack	b) Static array	/	
c) Linked Lis	t d)Queue		

Section B

Answer ALL the following questions 7. a) Explain the Special type of matrices. (Or)	2X7=14
b) Describe one dimensional array with example.	
8. a)Write a short note on Circular Linked List. (Or) b) Describe ADT stack operations with example	
Section C Answer ANY one of the following	1X10=10
9. Explain Singly Linked List in detail. (OR)	1/10-10

10. Explain linked list representation of stack in detail.

Reg.No:

Reg.No :	
G.T.N.ARTS COLLEGE (A	(utonomous)
(Affiliated to Madurai Kamaraj	
(Accredited by NAAC with 'B	
ODD SEMESTER [2019- INTERNAL ASSESSMENT T	
Class : II BCA (A&B)	Date: 19.08.19
Course Code : 17UCAC33	Time: 12.00-01.00 PM
Title of the Paper : Operating System	Max Marks: 30
Section A	
Answer ALL the Questions	6X1=6
1 is a software component that interacts directly with	hardware to perform requested
I/O operation.	NV/O
a) Device drivers b) Port c) System call	d)I/O manager
2. Which region has code that the processor executes?a) Datab) Stackc) Text	d) All
3. PID stands for	u) All
	tification Number
c) Process Identification Data d) Process Indef	
4. The PCB stores the register contents into	
a) Main Memory b) Registers	
c) Process table d) execution con	
5 process is indefinitely removed from contention	for time without being
destroyed. a) suspended b) aborted	
c) resumed d)blocked	
6 is an array of pointers to interrupt handler.	
a) Interrupt table b) Interrupt cycle	
c) Interrupt vector d) Interrupt processor	
Section B	
Answer ALL the following questions	2X7=14
7. a) Explain the goals and characteristics of the Operating S	ystem. (Or)
b) Describe about Inter Process Communication.	
8. a) Explain the process states in detail. (Or)b)Describe the necessary conditions for deadlock.	
Section C	

Section C

1X10=10

Answer ANY one of the following

9. Explain the various architectures of OS. (OR)

10. Describe the deadlock avoidance with Dijkstra's Banker's algorithm.

Reg.No :



W GOD VE TRUST CA	G.T.N.ARTS COLL ffiliated to Madurai Ka			
	(Accredited by NAAC	,		
ODD SEMESTER [2018-19]				
	INTERNAL ASSESSM	1ENT TEST - I		
Class	: II BCA (A&B)	Date: 19.08.19		
Course Code	: 17UCAC33	Time: 12.00-01.00 PM		
Title of the Paper	: Operating System	Max Marks: 30		
Section A Answer ALL the Ouestions 6X1=6				

Answer ALI	L the Questio	ons		6X1=6
1 is a	software con	nponent that in	teracts directly	with hardware to perform reques
I/O operation	on.			
a) De	evice drivers	b) Port c) Sys	tem call	d)I/O manager
2. Which regi	on has code t	hat the process	or executes?	
a) Da	ata	b) Stack	c) Text	d) All
3. PID stands	for			
a)Pro	ocess Index N	lumber	b) Process	Identification Number
c) Pr	cocess Identif	ication Data	d) Process In	ndefinite Number
4. The PCB st	ores the regi	ster contents in	.0	
a) M	ain Memory		b) Registers	
c) Pr	ocess table		d) execution	n content
51	process is ind	efinitely remov	ed from conten	tion for time without being
destroyed.				
a) su	spended	b) aborted		
c) re	sumed	d)blocked		
6	is an array of	pointers to inte	errupt handler.	
a) In	terrupt table	b) Inte	errupt cycle	
	-		errupt processor	r
	-			
		Section B		
Answer ALL	the followin	g questions		2X7=14
7. a) Explain	the goals and	characteristics	of the Operatin	g System. (Or)
b) Describe	about Inter l	Process Commi	inication	

7. a) Explain the goals and characteristics of the Operating System. (Or)
b) Describe about Inter Process Communication.
8. a) Explain the process states in detail. (Or)
b) Describe the necessary conditions for deadlock.

Section C
Answer ANY one of the following

9. Explain the various architectures of OS. (OR)10. Describe the deadlock avoidance with Dijkstra's Banker's algorithm.

1X10=10

Reg.No:



6X1=6

2X7=14

G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] **INTERNAL ASSESSMENT TEST – I** Date: 17.08.2019 Programme : II BCA (A&B) Time: 10:30 to 11:30am Course Code :17UCAC32 : Computer Graphics & Multimedia Max Marks: 30 **Course Title** Section A [Answer ALL the Questions] 1. CAD stands for a) Computer Aided Design b) Computer Art Design c) Computer Architectural Design d) Common Aided Design 2. Slope intercept for line drawing is a) y=mx+y b)m=x/yc) y=mx+bd) dy 3. _____ are the two types of boundary fill algorithms. a) 3 & 5 connected b) 4 & 8 connected c) 2&3 connected d) 1&2 connected 4. A algorithm can be used to re-color an object. a) Scan line filling b) Boundary fill c) Flood Fill d) Pattern Fill 5. A_____ is an area for all activities performed that the viewers see in Flash CS6. b) work space c) paste board d) properties panel a) stage 6. A____ tool is used to sharpen the edge of an object. a) smooth b) straighten c) snap d) gradient Section B [Answer ALL the following] 7. a. Discuss the concept of CAD and Image Processing. [OR] b. Write about DDA Algorithm for Line Drawing.

8. a. How to getting started Flash CS6 and explore the interface. [OR] b. Write about tools in Flash CS6 and explain it.

Section C

[Answer ANY one of the following] 1X10=10

9. Explain the steps for circle generating algorithm in detail.

10. Discuss the Boundary fill Algorithm in detail.

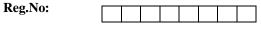


Reg.No:

G.T.N.ARTS COLLEGE (Autonomous)	
(Affiliated to Madurai Kamaraj University)	
(Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20]	
INTERNAL ASSESSMENT TEST - I	
Programme : II BCA (A&B) Date: 17.08.2019 Course Code : 17UCAC32 Time: 10:30 to 11:30an	
Course Title : Computer Graphics & Multimedia Max Marks: 30	1
Section A	
[Answer ALL the Questions] 6X: 1. CAD stands for	1=6
a) Computer Aided Design c) Computer Architectural Design d) Common Aided Design	
2. Slope intercept for line drawing is a) y=mx+y b)m=x/y c) y=mx+b d) dy	
3 are the two types of boundary fill algorithms. a) 3 & 5 connected b) 4 & 8 connected c) 2&3 connected d) 1&2 connected	
 4. A algorithm can be used to re-color an object. a) Scan line filling b) Boundary fill c) Flood Fill d) Pattern Fill 	
5. A is an area for all activities performed that the viewers see in Flash CS6.a) stageb) work spacec) paste boardd) properties panel	
6. A tool is used to sharpen the edge of an object.a) smooth b) straighten c) snap d) gradient	
Section B2X7=[Answer ALL the following]2X7=7. a. Discuss the concept of CAD and Image Processing.[OR]b. Write about DDA Algorithm for Line Drawing.[OR]	=14
8. a. How to getting started Flash CS6 and explore the interface. [OR]b. Write about tools in Flash CS6 and explain it.	
Section C[Answer ANY one of the following]1X109. Explain the steps for circle generating algorithm in detail.10. Discuss the Boundary fill Algorithm in detail.	=1(

	Reg.No: G.T.N.ARTS COLLEGE ((Affiliated to Madurai Kamara (Accredited by NAAC with ' ODD SEMESTER [2019 INTERNAL ASSESSMENT	j University) B' Grade) J-20]				
Programme : II BCA (A&B) Date: 20.08.19 Course code : 17UCAC34 Time: 10.30-11.30am						
Course		Max Marks: 30				
	Section A					
1.	Answer ALL the Questions Enhancing the capabilities of the product is one of	-				
•	a) quality b)reliability c) maintenance	, 0				
2.	A program is called when it uses on iteration types of constructs					
a)Unstructured b)Structured c) Object-oriented d) assembler3. In which metric, the project size is estimated by counting the number of source instructions in the developed program?						
4.	a) Function point b) LOC c) SR method is bottom-up estimation tool	S d)UFP				
5.	a) Expert Judgment b) Group consensus c)Work Theteam structure provide opportunity f contribute to decisions					
	a)Democratic b)Chief programmer c)Hierarc	hical d)All the above				
6.	Boehm suggests that maintenance effort can be est	imated by use of				
		ivity ratio d)FSP				
	Section B					
7.	Answer ALL the following questions a) Explain the Project size categories in Software	2X7=14 Engineering				
	(OR)					
8.	 b) Explain about the Project Team Structure in Software Engineering 8. a) Explain the Staffing Level Estimation (OR) 					
	b) Explain the Software Cost Factors in detail Section C					
9.	Answer any one of the following: Explain the Quality and Productivity Factors in So Explain Software Cost Estimation Techniques in d					

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G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] **INTERNAL ASSESSMENT TEST – I** Programme : II BCA (A&B) Date: 20.08.19 Course code : 17UCAC34 Time: 10.30-11.30am Course name : Software Engineering Max Marks: 30 Section A **Answer ALL the Questions** 6X1=6 1. Enhancing the capabilities of the product is one of the activity in Software c) maintenance a) quality b)reliability d) design 2. A program is called _____ when it uses only the sequence, selection and iteration types of constructs a)Unstructured b)Structured c) Object-oriented d) assembler 3. In which metric, the project size is estimated by counting the number of source instructions in the developed program? a) Function point b) LOC c) SRS d)UFP 4. _____ method is bottom-up estimation tool b) Expert Judgment b) Group consensus c)Work breakdown structures d)LOC 5. The team structure provide opportunity for each team member to contribute to decisions a)Democratic b)Chief programmer c)Hierarchical d)All the above 6. Boehm suggests that maintenance effort can be estimated by use of _ a)Adaptability b)Effort estimation c)Activity ratio d)FSP Section B Answer ALL the following questions 2X7=14 7. a) Explain the Project size categories in Software Engineering (OR)b) Explain about the Project Team Structure in Software Engineering 8. a) Explain the Staffing Level Estimation (OR) b) Explain the Software Cost Factors in detail Section C $1 \times 10 = 10$ III. Answer any one of the following: 9. Explain the Quality and Productivity Factors in Software Engineering (OR) 10. Explain Software Cost Estimation Techniques in detail.

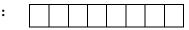
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Reg. No: 1 7 U C A Image: Solution of the Paper G.T.N.ARTS COLLEGE (Autonomous) GAffiliated to Madurai Kamaraj University) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] INTERNAL ASSESSMENT TEST – I Class : III BCA A&B. Paper Code : 17UCAC51 Title of the Paper : Dot Net Programming Max Marks : 30	Reg. No: 1 7 U C G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] INTERNAL ASSESSMENT TEST – I Class : III BCA A&B. Paper Code : 17UCAC51 Time : 12-1 PM Title of the Paper INTERNAL ASSESSMENT TEST – I
Section A [6 x 1 = 6] [Answer ALL the questions] 1. A(n) control allows user to select a single options from a list of options. a) Check box b) List box c) Option box d) Picture box 2. is the shortcut for browse through the clipboard ring. a) Ctrl + C b) Ctrl + V c) Ctrl + Shift + V 3. A is a control which is an interactive component that enables user to communicate with an application. a) Button b) Image c) Check box d) Option box 4. In the following which one is not a selection statement? a) If b) Switch c) Case d) Break 5. In the following which control doesn't have default event as click a) Button b) Image map c) Hyper link d) Check box 6. In timer control the value of interval property is	Section A [6 x 1 = 6] [Answer ALL the questions] 1. A(n) control allows user to select a single options from a list of options. b) Check box b) List box c) option box d) Picture box 2
Section B [Answer ALL the questions] [2 x 7 = 14] 7 a) Explain about tool box? (OR) b) Discuses about event handling? [2 x 7 = 14] 8 a) Explain about data types? (OR) b) Explain about debugger and break point? [1 x 10 = 10] Section C [1 x 10 = 10] 9 Explain about any four common controls with their properties? 10. Explain about selection statements with example?	Section B[2 x 7 = 14][Answer ALL the questions]7. a) Explain about tool box? (OR) b) Discuses about event handling?8 a) Explain about data types? (OR) b) Explain about debugger and break point?Section C[1 x 10 = 10][Answer ANY ONE question]9. Explain about any four common controls with their properties? 10. Explain about selection statements with example?

Reg. No: G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] INTERNAL ASSESSMENT TEST – I INTERNAL ASSESSMENT TEST – I Class : III BCA A&B Date : 20.08.19 Paper Code : 17UCAA52 Time :10.30-11.30AM Title of the Paper : Digital Image Processing Max Marks : 30	Reg. No:
Section A $[6 x 1 = 6]$ [Answer ALL the questions]	Section A $[6 x 1 = 6]$ [Answer ALL the questions]
 The amplitude of f at any pair of coordinates(x,y) is called the a) radiance b) intensity c) luminance d) brightness Bundle of energy is called a a) neutron b) proton c) photon d) electron Expand: TEM. a) Transmission Electron Microscope b) Transmission Energy Microscope c) Tracking Electron Microscope d) Tracking Energy Microscope The distance between the center of the lens and the retina along the visual axis is approximatelymm. a) 17 b) 18 c) 19 d) 20 Frequency is measured in a) volts b) hertz c) meters d) watt sensors widely used in digital cameras. a) BCD b) BCB c) CCD d) DDC 	 The amplitude of f at any pair of coordinates(x,y) is called the a) radiance b) intensity c) luminance d) brightness Bundle of energy is called a a) neutron b) proton c) photon d) electron Expand: TEM. a) Transmission Electron Microscope b) Transmission Energy Microscope c) Tracking Electron Microscope d) Tracking Energy Microscope The distance between the center of the lens and the retina along the visual axis is approximatelymm. a) 17 b) 18 c) 19 d) 20 Frequency is measured in a) volts b) hertz c) meters d) watt sensors widely used in digital cameras. a) BCD b) BCB c) CCD d) DDC
Section B[Answer ALL the questions][2 x 7 = 14]7a) Explain the uses of X-Ray?(OR)b) Describe the components of an Image Processing System?88a) Explain sampling and quantization?(OR)b) What is light and electromagnetic spectrum?000000000000000000000000000000000	Section B[Answer ALL the questions][2 x 7 = 14]7a) Explain the uses of X-Ray?(OR)b) Describe the components of an Image Processing System?8a) Explain sampling and quantization?(OR)b) What is light and electromagnetic spectrum?
Section C $[1 \times 10 = 10]$ [Answer ANY ONE question]	Section C $[1 \times 10 = 10]$ [Answer ANY ONE question]
9. Describe the fundamental steps in Digital Image Processing?10. Explain the structure of the human eye?	9. Describe the fundamental steps in Digital Image Processing?10. Explain the structure of the human eye?

Reg.No G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] INTERNAL ASSESSMENT TEST – I Class : III BCA A&B. Date : 17.08.2019 Paper Code : 17UCAC52 Time : 10.30-11.30 Title of the Paper : PHP and JavaScript Max Marks : 30	Reg.No G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] INTERNAL ASSESSMENT TEST – I INTERNAL ASSESSMENT TEST – I Class : III BCA A&B. Date : 17.08.2019 Paper Code : 17UCAC52 Time : 10.30 – 11.30 Title of the Paper : PHP and JavaScript Max Marks : 30
Section A [6 x 1 = 6] [Answer ALL the questions] 1. What does PHP stands for a) Pre-processor Page b) Hypertext Pre-processor c) Protocol Page d)Home Page 2. What will be the output of the following code. Php \$n=1; \$m=2; print \$n . "+" . \$m;</td a) 3 b) 1+2 c) 1.+.2 d)Error 3. Which Statement will output \$X on the Screen. a) Echo "\$X"; b) Echo "\$\$X"; c) Echo "\\$X"; d) Echo "X"; 4. Which In-Built Function will add a value to the end of an array a) Array_unshift() b)In_array() c)array_push() d)into_array() 5. The date() function returns representation of the current date and time. a) Integer b)String c) Boolean d) Float 6. Which one of the function is useful for producing a timestamp based on a given date and time. a) time() c) mrtime() d) mtime()	Section A[6 x 1 = 6][Answer ALL the questions]1. What does PHP stands fora)Pre-processor Page b) Hypertext Pre-processor c) Protocol Page d)Home Page2. What will be the output of the following code. Php \$n=1; \$m=2; print \$n . "+" . \$m;</td a)3 b) 1+2 c) 1.+.2 d)Error3. Which Statement will output \$X on the Screen.a)Echo "\$X"; b) Echo "\$\$X"; c) Echo "\\$X"; d) Echo "X";4. Which In-Built Function will add a value to the end of an arraya)Array_unshift() b)In_array() c)array_push() d)into_array()5. The date() function returns representation of the current date and time.a)Integer b)String c) Boolean d) Float6. Which one of the function is useful for producing a timestamp based on a given date and time.a)time() b)mktime() c) mrtime() d) mtime()
Section B [2 x 7 = 14] [Answer ALL the questions] [0 R] 7. a) Write about the unique features of PHP [OR] b. Discuss the Data types in PHP 8. a) Explain about Foreach statement in PHP. [OR] b) Explain any 5 String Functions with Example	Section B [2 x 7 = 14] [Answer ALL the questions] [2 x 7 = 14] 7. a) Write about the unique features of PHP [OR] b. Discuss the Data types in PHP 8. a) Explain about Foreach statement in PHP. [OR] b) Explain any 5 String Functions with Example
Section C [Answer ANY ONE question][1 x 10 = 10]9.Write about the Operators used in PHP. 10.Explain the concept of Arrays with an example	Section C [Answer ANY ONE question][1 x 10 = 10]9.Write about the Operators used in PHP. 10.Explain the concept of Arrays with an example

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G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] Π

	INTERNAL ASSESSMENT	TEST – II
Programme	: I BCA (A&B)	Date: 22.10.19
Course Code	: 17UCAC11	Time: 9- 10am
Course Title	: Programming in C	Max Marks: 30

Section A [Answer ALL the Questions]

6X1=6

1. An is a fixed size sequenced collection of elements of the same data type.							
	a) Structures b) Union c) Functions d) Array						
2. Alloca	ating memory to	arrays at run time	is called				
	a) Static arrays	b) Dynamic arr	rays c) Str	ucture d) Union			
3	function is used	to write strings to	screen.				
	a) scanf	b) print	c) write	d) printf			
		o compare any tw					
	a) strcat	b) strlen	c) strcmp	d) strstr			
5. A is a self contained block of code that performs a specific task.							
	,	b) union	· · · · · · · · · · · · · · · · · · ·	· 1			
6. The operator is used to give the size of any variable.							
	a) malloc	b) sizeof	c) & d) %				

Section **B**

[Answer ALL the following]

2X7=14

1X10=10

7. a. What is an array? How to declare and initialize an array. Explain in detail. (OR)

b. What is an array of structures. Explain in detail.

8. a. Discuss about unions.

(OR)

b. How to access a variable through its pointers.

Section C

[Answer ANY one of the following]

9. Explain in detail about string handling functions.

10. Explain the category of functions.



Reg. No :

G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] **INTERNAL ASSESSMENT TEST – II** Programme : I BCA (A&B) Date: 22.10.19 Course Code :17UCAC11 Time: 9- 10am : Programming in C Course Title Max Marks: 30

Section A [Answer ALL the Questions]

6X1=6

1. Anis a fixed size sequenced collection of elements of the same data type.					
:	a) Structures	b) Union	c) Functions	d) Array	
2. Alloca	ting memory to a	rrays at run time	is called		
:	a) Static arrays	b) Dynamic arr	ays c) Strue	cture d) Union	
3	function is used	to write strings to	screen.		
:	a) scanf	b) print	c) write	d) printf	
4	is used to	compare any tw	o strings.		
:	a) strcat	b) strlen	c) strcmp	d) strstr	
5. A	is a self co	ntained block of a	code that performs	s a specific task.	
:	a) structure	b) union	c) Function	d) pointers	
6. The operator is used to give the size of any variable.					
:	a) malloc	b) sizeof	c) & d) %		

Section B

[Answer ALL the following]

2X7=14

7. a. What is an array? How to declare and initialize an array. Explain in detail. (OR) b. What is an array of structures. Explain in detail. 8. a. Discuss about unions. (OR)

b. How to access a variable through its pointers.

Section C

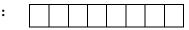
[Answer ANY one of the following]

1X10=10

9. Explain in detail about string handling functions.

10. Explain the category of functions.

Reg.No:





G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] Π

	INTERNAL ASSESSMENT	TEST – II
Programme	: I BCA (A&B)	Date: 22.10.19
Course Code	: 17UCAC11	Time: 9- 10am
Course Title	: Programming in C	Max Marks: 30

Section A [Answer ALL the Questions]

6X1=6

1. An is a fixed size sequenced collection of elements of the same data type.							
	a) Structures b) Union c) Functions d) Array						
2. Alloca	ating memory to	arrays at run time	is called				
	a) Static arrays	b) Dynamic arr	rays c) Str	ucture d) Union			
3	function is used	to write strings to	screen.				
	a) scanf	b) print	c) write	d) printf			
		o compare any tw					
	a) strcat	b) strlen	c) strcmp	d) strstr			
5. A is a self contained block of code that performs a specific task.							
	,	b) union	· · · · · · · · · · · · · · · · · · ·	· 1			
6. The operator is used to give the size of any variable.							
	a) malloc	b) sizeof	c) & d) %				

Section **B**

[Answer ALL the following]

2X7=14

1X10=10

7. a. What is an array? How to declare and initialize an array. Explain in detail. (OR)

b. What is an array of structures. Explain in detail.

8. a. Discuss about unions.

(OR)

b. How to access a variable through its pointers.

Section C

[Answer ANY one of the following]

9. Explain in detail about string handling functions.

10. Explain the category of functions.



Reg. No :

G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] **INTERNAL ASSESSMENT TEST – II** Programme : I BCA (A&B) Date: 22.10.19 Course Code :17UCAC11 Time: 9- 10am : Programming in C Course Title Max Marks: 30

Section A [Answer ALL the Questions]

6X1=6

1. Anis a fixed size sequenced collection of elements of the same data type.					
:	a) Structures	b) Union	c) Functions	d) Array	
2. Alloca	ting memory to a	rrays at run time	is called		
:	a) Static arrays	b) Dynamic arr	ays c) Strue	cture d) Union	
3	function is used	to write strings to	screen.		
:	a) scanf	b) print	c) write	d) printf	
4	is used to	compare any tw	o strings.		
:	a) strcat	b) strlen	c) strcmp	d) strstr	
5. A	is a self co	ntained block of a	code that performs	s a specific task.	
:	a) structure	b) union	c) Function	d) pointers	
6. The operator is used to give the size of any variable.					
:	a) malloc	b) sizeof	c) & d) %		

Section B

[Answer ALL the following]

2X7=14

7. a. What is an array? How to declare and initialize an array. Explain in detail. (OR) b. What is an array of structures. Explain in detail. 8. a. Discuss about unions. (OR)

b. How to access a variable through its pointers.

Section C

[Answer ANY one of the following]

1X10=10

9. Explain in detail about string handling functions.

10. Explain the category of functions.

Reg. No:	Reg. No:
G.T.N.ARTS COLLEGE (Autonomous) Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [NOV, 2019] INTERNAL ASSESSMENT TEST – II Class : II BCA A & B Date:23.10.19 Paper Code : 17UCAC34 Time: 10.30-11.30 AM	G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [NOV, 2019] INTERNAL ASSESSMENT TEST – II Class : IIBCAA & B Date: 23.10.19 Paper Code : 17UCAC34 Time: 10.30-11.30 AM
Paper Code: 17UCAC34Time: 10.30-11.30 AMTitle of the Paper: SOFTWARE ENGINEERINGMax Marks: 30	Paper Code: 17UCAC34Time: 10.30-11.30 AMTitle of the Paper: SOFTWARE ENGINEERINGMax Marks: 30
Section A [6 x 1 = 6] [Answer ALL the questions] [6 x 1 = 6] []of a data flow diagram specifies processing activities. a) Nodes b) Arcs a) Nodes b) Arcs c) Graph d) Tree 2is a process of isolating and correcting the cause of known errors. a) Testing b) Debugging c) Coding d) SQA 3. In coupling, one module relies on the internal working of another module. a) Content b) Control c) Stamp d) External 4. The software requirements specification is based on	Section A $[6 x 1 = 6]$ [Answer ALL the questions]1 of a data flow diagram specifies processing activities.a) Nodesb) Arcsc) Graphd) Tree2 is a process of isolating and correcting the cause of known errors.a) Testingb) Debuggingc) Codingd) SQA3. In coupling, one module relies on the internal working of another module.a) Contentb) Controlc) Stampd) External4. The software requirements specification is based on
Section C[1 x 10 = 10][Answer ANY ONE question]9. Explain any THREE Design techniques10. Describe about the System Testing.	Section C [1 x 10 = 10] [Answer ANY ONE question] 9. Explain any THREE Design techniques 10. Describe about the System Testing.

Class Course Code Title of the Paper	Affiliated to (Accredite ODD INTERN : IIBCA (Ad : 17UCAC31) Madurai Ka ed by NAAC) SEMESTER AL ASSESSM &B) l	EGE (Autono amaraj Unive with 'B' Grac [2019-20] MENT TEST – Date: 1 Time: 1	rsity) le)
		Section A		
Answer ALL th	e Questions	Section A		6X1=6
		ree in which ever	y node except the l	eaf has only one child
node.				,
a) complete bina			c)tree traversal	d)threaded tree
2. Children nodes				D)L cof
a)root	b)siblings	C)chil		D)Leaf
3. A strictly binar	•			
a)2n	b)n+1	c)2n+1	d)2n-1	. fourless an outless and
1	called as	1	ta sets to determine	e faulty results and
			d)onolyging	
· · · ·		c)sampling		ticular task is
a)linear search			orithm d)finite	
,	,	, 0	the tree only once.	11085
a)traversal	b)seard	• •	c)inserting	d)viewing
ajuavei sai	<i>b)searc</i>	Jung	e/mserung	ajviewing
Answer ALL the 7. a) Explain Exp b) Write a shor		detail. (OR)		2X7=14

8. a)Write a short note on Performance Analysis. (OR)b) Describe Merge Sort with implementation

Section C

1X10=10

Answer ANY one of the following

9. Explain any two tree traversal algorithms with implementation. (OR) 10. Explain ADT operations on Queue in detail with example.

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G.T.N.ARTS COLLEGE (Autonomous)						
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) SEMESTER		т		
Class		AL ASSESSM		1 9.10.19		
Class Course Code	(9.10.19 12.00-01.00 PM		
Title of the Paper				arks: 30		
	· Data Sti u		With Wi	urko. 50		
		Section A				
Answer ALL the	Questions			6X1=6		
1	is a binary t	ree in which every	node except the l	eaf has only one child		
node.						
		b)skew tree		d)threaded tree		
		ent are called				
a)root	b)siblings	C)child	1	D)Leaf		
3. A strictly binar	y tree with n lea	aves will have	nodes.			
a)2n	b)n+1	c)2n+1	d)2n-1			
4. The process of	executing progr	rams on sample dat	a sets to determine	e faulty results and		
correct them is	called as	·		-		
a)profiling	b)debugging	c)sampling	d)analyzing			
· • •		hat if followed ac	• • •	ticular task is		

a)linear search	b) effectiveness	c)algorithm	d)finiteness	
6 1	refers to processing even	ry node of the tree of	only once.	

a)traversal	b)searching	c)inserting	d)viewing
-------------	-------------	-------------	-----------

Section B Answer ALL the following questions 7. a) Explain Expression Trees in detail. (OR) b) Write a short note on Huffman coding.	2X7=14
8. a)Write a short note on Performance Analysis. (OR)b) Describe Merge Sort with implementation	
Section C Answer ANY one of the following 9. Explain any two tree traversal algorithms with implementation. (OR) 10. Explain ADT operations on Queue in detail with example.	1X10=10

(A I Class : Course Code :	Reg.N G.T.N.ARTS COL liated to Madurai H Accredited by NAAC ODD SEMESTE NTERNAL ASSESS II BCA (A&B) 17UCAC33 Operating System	LEGE (Autonor Kamaraj Univer With 'B' Grad R [2019-20] MENT TEST – Date: 2 Time: 1	rsity) le)
	Section A		
Answer ALL the Qu		-	6X1=6
	cterized by		
	nmer defined operators	B. an identifier	
C. the number of v		D. a protocols	
-	ostly used to implement		
•		v 1	D. Interrupts
	variables are r	equired to be shared l	between processes to
solve the critical secti	-		
A. One		hree D. Four	
	policy, when the last track		e direction, the arm is
	te end of the disk and scan		
A. Last in first out	B. Shortest service tim		
	magnetic tapes is		
A. fast	B. very fast	C. slow	D. very slow
6. On a movable head	system, the time it takes to	position the head at t	the track 1s known as
A. Seek time	B. Rotational delay	C. Access time	D Transfor time
A. SEEK UIIIE	B. Rotational delay Section B	C. Access time	D. Mansiel time
Answer ALL the foll			2X7=14
	hardware solutions to Mutu	al Exclusion. (Or)	2217-14
b) Write a short no			
· 1	acteristics of Disk Scheduli te on Rotational Optimizati	0	
	Section C		
	Section		
Answer ANY one of	the following		1X10=10
Answer ANY one of 9. Explain the role of	the following Semaphores in Mutual Excl	lusion. (OR)	1X10=10

G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] INTERNAL ASSESSMENT TEST -II : II BCA (A&B) Date: 22.10.19

ODD SEMESIER [2019-20]					
	INTERNAL ASSESS	MENT TEST –	II		
Class	: II BCA (A&B)	Date: 2	2.10.19		
Course Code	: 17UCAC33	Time: 1	12.00-1.00 PM		
Title of the Paper	: Operating System	Max M	larks: 30		
	Section A				
Answer ALL the	-		6X1=6		
1. A monitor is cha	aracterized by				
A. a set of progr	ammer defined operators	B. an identifier			
C. the number of	f variables in it	D. a protocols			
2. Semaphores are	mostly used to implement	-			
-	B. IPC Mechanism C. S		D. Interrupts		
•	variables are re		-		
solve the critical se		equiled to be shared	between processes to		
	-	D F			
A. One	B. Two C. Three	D. Fou	-		
4. In	policy, when the last track h	has been visited in or	ne direction, the arm is		
returned to the opp	osite end of the disk and scan b	begins again.			
A. Last in first of	B. Shortest service tim	e first C. SCAN	D. Circular SCAN		
5. Random access	in magnetic tapes is	compared to m	agnetic disks.		
A. fast	B. very fast	C. slow	D. very slow		
6. On a movable he	ead system, the time it takes to	position the head at	the track is known as		
A. Seek time	B. Rotational delay	C. Access time	D. Transfer time		
	Section B				

Answer ALL the following questions2X7=147. a) Explain any two hardware solutions to Mutual Exclusion. (Or)
b) Write a short note on Monitors.2

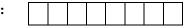
8. a) Explain the characteristics of Disk Scheduling Policies. (Or)b) Write a short note on Rotational Optimization.

Section C

Answer ANY one of the following1X10=109. Explain the role of Semaphores in Mutual Exclusion. (OR)10. Explain briefly any three Disk Scheduling algorithms.

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G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] INTERNAL ASSESSMENT TEST – II Programme : II BCA (A&B) Date: 21.10.19 Course Code : 17UCAC32 Time: 10:30-11:30am Course Title : Computer Graphics and Multimedia Max Marks: 30

Section A [Answer ALL the Questions]

6X1=6

_transformation alters the size of an object. 1. A b) translation a) Shear c) scaling d) rotation 2. Forming products of transformation matrices is referred as a) Concatenation b) Homogenous c) Multiple d) Pivot 3. A is a transformation that produces a mirror image of an object. b) reflection a) Translation c) shear d) scaling 4. A world coordinate area selected for display is called a a) Viewport b) workstation c) temporary d) window 5. The region against which an object is clipped is called as a) Drawing window b) Clip Window c) Viewport d) display screen 6. An area on a display device to which a window is mapped is called a b) workstation c) temporary a) Viewport d) window

Section B

[Answer ALL the following]	2X7=14
7. a. Explain the homogenous matrix transformations.	
(OR)	
b. Discuss about Reflection	
8. a. Explain Window to Viewport transformation.	
(OR)	
b. Discuss Sutherland-Hodgeman Polygon Clipping.	
Section C	
[Answer ANY one of the following]	1X10=10
9 What are the basic transformations in graphics? Discuss them	

9. What are the basic transformations in graphics? Discuss them.

10. Discuss Cohen-Sutherland Line Clipping method.

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Programme Course Code Course Title

1				

G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] INTERNAL ASSESSMENT TEST – II ne : II BCA (A&B) Date: 21.10.19 ode : 17UCAC32 Time: 10:30- 11:30am Title : Computer Graphics and Multimedia Max Marks: 30

Section A [Answer ALL the Questions]

Reg. No

6X1=6

2X7=14

1X10=10

1. A transformation alters the size of an object. a) Shear b) translation c) scaling d) rotation 2. Forming products of transformation matrices is referred as a) Concatenation b) Homogenous c) Multiple d) Pivot 3. A is a transformation that produces a mirror image of an object. a) Translation b) reflection c) shear d) scaling 4. A world coordinate area selected for display is called a a) Viewport b) workstation c) temporary d) window 5. The region against which an object is clipped is called as a) Drawing window b) Clip Window c) Viewport d) display screen 6. An area on a display device to which a window is mapped is called a a) Viewport b) workstation c) temporary d) window

Section B

[Answer ALL the following] 7. a. Explain the homogenous matrix transformations. (OR) b. Discuss about Reflection

8. a. Explain Window to Viewport transformation. (OR)b. Discuss Sutherland-Hodgeman Polygon Clipping.

Section C

[Answer ANY one of the following]

9. What are the basic transformations in graphics? Discuss them.

10. Discuss Cohen-Sutherland Line Clipping method.

Reg. No:		Re	g. No:
G.T.N.ARTS COLLEGE (Auton Madurai Kamaraj Univers (Accredited by NAAC with 'B' ODD SEMESTER [NOV, 20 INTERNAL ASSESSMENT TES : III BCA A & B	ity) Grade))19]	(Affiliated to Mad (Accredited by ODD SEME	OLLEGE (Autonomous) lurai Kamaraj University) NAAC with 'B' Grade) CSTER [NOV, 2019] SSESSMENT TEST – II Date:19.10.19
Paper Code : 17UCAC51 Title of the Paper : ASP .NET	Time: 12-1 PM Max Marks: 30	Paper Code : 17UCAC51 Title of the Paper : ASP .NET	Time: 12-1 PM Max Marks: 30
Section A [Answer ALL the questions] 1.A is a small pop up window that displays some inf a control	$[6 \ge 1 = 6]$		on A [6 x 1 = 6] r ALL the questions] that displays some information when you rollover on
a) Tooltipb) tooc) Graphd) Tree2. SDI stands for	ee	a) Tooltipc) Graph2. SDI stands for	b) tool box d) Tree
c) Second Document Interface d) Str 3. The DoEvents function returns a(n)	ngle Document Interface eam Document Interface Float	 a) Super Document Interface c) Second Document Interface 3. The DoEvents function returns a(n) a) String 	b) Single Document Interface d) Stream Document Interface b) Float
c) Integer d) (4. A relation is usually called a database	Char Record	 c) Integer 4. A relation is usually called a database _ a) Relationship 	d) Char
5. A database is any object in a database that used to stor	reference	 c) Files 5. A database is any object in a dat a) dictionary c) table 	 d) Table abase that used to store or reference data. b) reference d) object
6 control eliminates the need to design forms to execu actual business flow. a) Wizard b) grid	ite a step by step process in the		design forms to execute a step by step process in the b) gridview
c) Button d) rep Section B [Answer ALL the questions]	[2 x 7 = 14]		d) report on B $[2 \times 7 = 14]$ L the questions]
 7. a) Explain the concept of exception handling and its keywor b Explain briefly about reading and writing a file. 8. a) Write short notes tables in asp .net[OR] 	rds [OR]	7. a) Explain the concept of exception ha b Explain briefly about reading and wr8. a) Write short notes tables in asp .net[riting a file. OR]
b) Explain about styling a datagrid view control. Section C [Answer ANY ONE question]	[1 x 10 = 10]	[Answer AN	ion C $[1 \ x \ 10 = 10]$ Y ONE question]
 Discuss about graphics object in detail Describe about dataset in C#. 		 Discuss about graphics object in detail Describe about dataset in C#. 	

Reg.No	Reg.No
G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] INTERNAL ASSESSMENT TEST – IIClass: III BCA A&B.Paper Code: 17UCAC52Title of the Paper: PHP and JavaScriptMax Marks : 30	G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2019-20] INTERNAL ASSESSMENT TEST – IIClass: III BCA A&B.Date : 21.10.2019 Time : 10.30 – 11.30 Max Marks : 30
Section A [6 x 1 = 6] [Answer ALL the questions] 1. PHP recognizes constructors by the name a)_const() b) function_cons() c) function_Constructor() d)class name 2. Which keyword is used to refer to the properties or methods within the class itself a) private b) public c) protected d)\$this 3. In PHP Cookies are set by using the a) Set Cookie() function b) Set() c) Cookie() d) Set Session() 4. In JavaScript, object properties can be accessed through the use of a) + operator b)(.) operator c)can't access d)* operator 5. Themethod of the document object allows you to get an element by the value of its id attribute. a) getElementByClassName() b)CreateElement c) getSelection() d) getElement byId() 6. Which property returns the complete URL of the current document? a) domain b)referrer c)URL d) title	Section A [6 x 1 = 6] [Answer ALL the questions] 1. PHP recognizes constructors by the name a)_const() b) function_cons() c) function_Constructor() d)class name 2. Which keyword is used to refer to the properties or methods within the class itself a)private b) public c) protected d)\$this 3.In PHP Cookies are set by using the a)Set Cookie() function b) Set() c) Cookie() d) Set Session() 4. In JavaScript, object properties can be accessed through the use of a)+ operator b)(.) operator c)can't access d)* operator 5. Themethod of the document object allows you to get an element by the value of its id attribute. a)getElementByClassName() b)CreateElement c) getSelection() d) getElement byId() 6. Which property returns the complete URL of the current document? a)domain b)referrer c)URL d) title
Section B [2 x 7 = 14] [Answer ALL the questions] [2 x 7 = 14] 7. a) How can you create User defined functions in PHP [OR] b. b. How can you create cookies in PHP [OR] 8. a) Write any five properties of the Document object [OR] b) Write a Javascript program for Recursion . [I x 10 = 10]	Section B[2 x 7 = 14][Answer ALL the questions]7. a How can you create User defined functions in PHP [OR]b How can you create cookies in PHP8. a) Write any five properties of the Document object[OR]b) Write a JavaScript program for Recursion.[OR]
 [Answer ANY ONE question] 9. Write about Sessions in PHP. 10. Explain some methods of Document Object. 	Section C[1 x 10 = 10][Answer ANY ONE question]9.9.Write about Sessions in PHP.10.Explain some methods of Document Object.

Reg. No:		Reg. No:	
Paper Code : 17CBCA51 Tin		Paper Code : 17CBCA51	Sity) 2)
Section A [Answer ALL the questions] 1. What is internet? 2. What is www?	$[3 \times 2 = 6]$	Section A [Answer ALL the questions] 1. What is internet? 2. What is www? 3. What is html?	[3 x 2 = 6]
 3. What is html? Section B [Answer ALL the questions] 4. a) Explain planning process of web design (OR) b) Write about history of internet 5. a) Write about heading tag with example. (OR) b)How to working with hyperlink. Explain with example 	[2 x 5 = 10]	Section B [Answer ALL the questions] 4. a) Explain planning process of web design (OR) b) Write about history of internet 5. a) Write about heading tag with example. (OR) b) How to working with hyperlink. Explain with example	[2 x 5 = 10]
Section C [Answer ANY ONE question] 6. Explain about five golden rules of web designing. 7. Explain about basic structure of HTML document.	[1 x 9 = 9]	Section C [Answer ANY ONE question] 6. Explain about five golden rules of web designing. 7. Explain about basic structure of HTML document.	[1 x 9 = 9]

	23.10.19 10.30-11.30AM arks : 30	Reg. No: G.T.N.ARTS COLLEGE (Aut (Affiliated to Madurai Kamaraj (Accredited by NAAC with 'H ODD SEMESTER [2019 INTERNAL ASSESSMENT T : III BCA A&B : 17UCAA52 Paper : Digital Image Processing	University) 3'Grade) -20]
Section A [6 x [Answer ALL the questions]	x 1 = 6]	Section A [Answer ALL the questions]	[6 x 1 = 6]
 The exponent in the power-law equation is referred to as a) beta b) gamma c) alpha d) delta is a process that expands the range of intensity levels in an im spans the full intensity range of the recording medium or display device a) brightness stretching b) color stretching c) contrast stretching d) saturation stretching The intensity of each pixel in a 256-level gray-scale image is composed a) 8 b) 16 c) 32 d) 64 is the process of moving a filter mask over the image and consum of products at each location. a) Correlation b) convolution c) masking d) foundation Gaussian noise is also called as a) Difficult noise b) simple noise c) complex noise d) normal G. If either P_a or P_b is zero, the impulse noise is called 	a) b a) b a) b a) b bits. a) b c spans a) b d) d) d of bits. bits. a) b d) d) d) d) d) f c spans a) b d) d) d) c spans a) b d) d) d) c spans a) b c d) d) c spans a) b c d) c spans a) b c d) c spans a) b c d) c spans a) b c c spans a) b c spans a) b c spans a) b c spans a) c spans a) c a) c	xponent in the power-law equation is referred to a beta b) gamma c) alpha d) delta is a process that expands the range of intensity the full intensity range of the recording medium of rightness stretching b) color stretching c) constaturation stretching ntensity of each pixel in a 256-level gray-scale im 8 b) 16 c) 32 d) 64 is the process of moving a filter mask over the oducts at each location. Correlation b) convolution c) masking sian noise is also called asDifficult noise ter Pa or Pb is zero , the impulse noise is called uadpolar b) tripolar c) bipolar d) unipolar	 a y levels in an image so that it or display device. antrast stretching anage is composed of bits. be image and computing the sum d) foundation bise
Section B [Answer ALL the questions] 7 a) Explain the any 2 piecewise-linear transformation functions? b) Describe the Power-law transformation in detail. 8 a) Explain the process of histogram equalization? (OR) b) Explain the process of image degradation and restoration?	b) I 8 a) E	Section B [Answer ALL the questions] Explain the any 2 piecewise-linear transformation Describe the Power-law transformation in detail. Explain the process of histogram equalization? Explain the process of image degradation and rest	(OR)
Section C [Answer ANY ONE question]	$[1 \times 10 = 10]$	Section C [Answer ANY ONE question]	$[1 \times 10 = 10]$

9. Describe the fundamentals of spatial filtering?10. Explain various noise models in detail?

9. Describe the fundamentals of spatial filtering?10. Explain various noise models in detail?