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**G.T.N.ARTS COLLEGE (Autonomous)**  
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(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**

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**Section A**

**Answer ALL the Questions** **6X1=6**

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)      b) pop(s)      c) showstack(s)      d) display(s)
6. Dynamic memory allocation can be done using.  
a) Stack      b) Static array  
c) Linked List      d) Queue

**Section B**

**Answer ALL the following questions** **2X7=14**

7. a) Explain the Special type of matrices. (Or)  
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)
10. Explain linked list representation of stack in detail.



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**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**

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**ODD SEMESTER [2019-20]**

**INTERNAL ASSESSMENT TEST – I**

Class : **I 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**

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**Section A**

**Answer ALL the Questions**

**6X1=6**

1. \_\_\_\_\_ is a software component that interacts directly with hardware to perform requested I/O operation.  
a) Device drivers b) Port c) System call d) I/O manager
2. Which region has code that the processor executes?  
a) Data b) Stack c) Text d) All
3. PID stands for \_\_\_\_\_  
a) Process Index Number b) Process Identification Number  
c) Process Identification Data d) Process Indefinite Number
4. The PCB stores the register contents into \_\_\_\_\_.  
a) Main Memory b) Registers  
c) Process table d) execution content
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 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**

**1X10=10**

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



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**G.T.N.ARTS COLLEGE (Autonomous)**  
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**ODD SEMESTER [2018-19]**

**INTERNAL ASSESSMENT TEST – I**

Class : **I 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**

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**Section A**

**Answer ALL the Questions**

**6X1=6**

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**G.T.N.ARTS COLLEGE (Autonomous)**  
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**ODD SEMESTER [2019-20]**

**INTERNAL ASSESSMENT TEST – I**

**Programme : II BCA (A&B) Date: 17.08.2019**  
**Course Code : 17UCAC32 Time: 10:30 to 11:30am**  
**Course Title : Computer Graphics & Multimedia Max Marks: 30**

**Section A**

[Answer ALL the Questions]

**6X1=6**

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)  $m=x/y$
  - 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) stage
  - b) work space
  - c) paste board
  - d) properties panel
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]

**2X7=14**

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.

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**ODD SEMESTER [2019-20]**

**INTERNAL ASSESSMENT TEST – I**

**Programme : II BCA (A&B) Date: 17.08.2019**  
**Course Code : 17UCAC32 Time: 10:30 to 11:30am**  
**Course Title : Computer Graphics & Multimedia Max Marks: 30**

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**Section B**

[Answer ALL the following]

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**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 \_\_\_\_  
 a) quality      b)reliability      c) maintenance      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  
 a) 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**

- III. Answer any one of the following:** **1x10 = 10**
9. Explain the Quality and Productivity Factors in Software Engineering (OR)
  10. Explain Software Cost Estimation Techniques in detail.



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**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**

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**ODD SEMESTER [2019-20]**

INTERNAL ASSESSMENT TEST – I

Class : **III BCA A&B.** Date : 16.08.19  
Paper Code : **17UCAC51** Time : 12-1 PM  
Title of the Paper : **Dot Net Programming** Max Marks : **30**

**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      d) Ctrl + Shift + C
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 \_\_\_\_\_.  
a) Minutes      b) milliseconds      c) seconds      d) nanoseconds

**Section B**

[Answer **ALL** the questions]

[2 x 7 = 14]

- 7 a) Explain about tool box? (OR)  
b) Discusses 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?

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**ODD SEMESTER [2019-20]**

INTERNAL ASSESSMENT TEST – I

Class : **III BCA A&B.** Date : 16.08.19  
Paper Code : **17UCAC51** Time : 12-1 PM  
Title of the Paper : **Dot Net Programming** Max Marks : **30**

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**Section B**

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[2 x 7 = 14]

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**ODD SEMESTER [2019-20]**

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**

**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 approximately \_\_\_\_mm.  
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]

- a) Explain the uses of X-Ray? (OR)  
b) Describe the components of an Image Processing System?
- a) Explain sampling and quantization? (OR)  
b) What is light and electromagnetic spectrum?

**Section C**

[1 x 10 = 10]

[Answer **ANY ONE** question]

- Describe the fundamental steps in Digital Image Processing?
- Explain the structure of the human eye?

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**ODD SEMESTER [2019-20]**

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**

**Section A**

[6 x 1 = 6]

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**Section C**

[1 x 10 = 10]

[Answer **ANY ONE** question]

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- Explain the structure of the human eye?





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**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

**Section A**

[6 x 1 = 6]

[Answer **ALL** the questions]

- What does PHP stands for \_\_\_\_ .  
 a) Pre-processor Page b) Hypertext Pre-processor c) Protocol Page d) Home Page
- What will be the output of the following code.  
`<? Php $n=1; $m=2; print $n . "+" . $m;`  
 a) 3 b) 1+2 c) 1.+2 d) Error
- Which Statement will output \$X on the Screen.  
 a) Echo "\$X"; b) Echo "\$\$X"; c) Echo "\\$X"; d) Echo "X";
- 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()
- The date() function returns \_\_\_\_ representation of the current date and time.  
 a) Integer b) String c) Boolean d) Float
- Which one of the function is useful for producing a timestamp based on a given date and time.  
 a) time() b) mktime() c) mertime() d) mtime()

**Section B**

[2 x 7 = 14]

[Answer **ALL** the questions]

- Write about the unique features of PHP [ OR ]
  - Discuss the Data types in PHP
- Explain about Foreach statement in PHP. [ OR ]
  - Explain any 5 String Functions with Example

**Section C**

[1 x 10 = 10]

[Answer **ANY ONE** question]

- Write about the Operators used in PHP.
- Explain the concept of Arrays with an example

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**G.T.N.ARTS COLLEGE (Autonomous)**  
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**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

**Section A**

[6 x 1 = 6]

[Answer **ALL** the questions]

- What does PHP stands for \_\_\_\_ .  
 a) Pre-processor Page b) Hypertext Pre-processor c) Protocol Page d) Home Page
- What will be the output of the following code.  
`<? Php $n=1; $m=2; print $n . "+" . $m;`  
 a) 3 b) 1+2 c) 1.+2 d) Error
- Which Statement will output \$X on the Screen.  
 a) Echo "\$X"; b) Echo "\$\$X"; c) Echo "\\$X"; d) Echo "X";
- 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()
- The date() function returns \_\_\_\_ representation of the current date and time.  
 a) Integer b) String c) Boolean d) Float
- Which one of the function is useful for producing a timestamp based on a given date and time.  
 a) time() b) mktime() c) mertime() d) mtime()

**Section B**

[2 x 7 = 14]

[Answer **ALL** the questions]

- Write about the unique features of PHP [ OR ]
  - Discuss the Data types in PHP
- Explain about Foreach statement in PHP. [ OR ]
  - Explain any 5 String Functions with Example

**Section C**

[1 x 10 = 10]

[Answer **ANY ONE** question]

- Write about the Operators used in PHP.
- Explain the concept of Arrays with an example



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**G.T.N.ARTS COLLEGE (Autonomous)**  
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**ODD SEMESTER [2019-20]**

**INTERNAL ASSESSMENT TEST – II**

Programme : **IBCA (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. Allocating memory to arrays at run time is called \_\_\_\_\_.  
a) Static arrays    b) Dynamic arrays    c) Structure    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 two strings.  
a) strcat    b) strlen    c) strcmp    d) strstr
5. A \_\_\_\_\_ is a self contained block of code that performs 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.



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**ODD SEMESTER [2019-20]**

**INTERNAL ASSESSMENT TEST – II**

Programme : **IBCA (A&B)** Date: **22.10.19**  
Course Code : **17UCAC11** Time: **9- 10am**  
Course Title : **Programming in C** Max Marks: **30**

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**ODD SEMESTER [2019-20]**

**INTERNAL ASSESSMENT TEST – II**

Programme : **IBCA (A&B)** Date: **22.10.19**  
Course Code : **17UCAC11** Time: **9- 10am**  
Course Title : **Programming in C** Max Marks: **30**

**Section A**  
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**G.T.N.ARTS COLLEGE (Autonomous)**  
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**ODD SEMESTER [2019-20]**

**INTERNAL ASSESSMENT TEST – II**

Programme : **IBCA (A&B)** Date: **22.10.19**  
Course Code : **17UCAC11** Time: **9- 10am**  
Course Title : **Programming in C** Max Marks: **30**

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**[Answer ALL the Questions]**

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**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  
Title of the Paper : **SOFTWARE ENGINEERING** Max Marks: **30**

**Section A** [6 x 1 = 6]  
[Answer **ALL** the questions]

- \_\_\_\_\_ of a data flow diagram specifies processing activities.  
a) Nodes b) Arcs  
c) Graph d) Tree
- \_\_\_\_\_ is a process of isolating and correcting the cause of known errors.  
a) Testing b) Debugging  
c) Coding d) SQA
- In \_\_\_\_\_ coupling, one module relies on the internal working of another module.  
a) Content b) Control  
c) Stamp d) External
- The software requirements specification is based on \_\_\_\_\_.  
a) System definition b) Users manual  
c) Project plan d) Design
- The \_\_\_\_\_ board reviews and approves all change requests.  
a) Change control b) Review control  
c) Control review d) Review change
- \_\_\_\_\_ is concerted with tracking and controlling of the work products that constitute a software product.  
a) SQA b) Verification  
c) Configuration Management d) Metrics

**Section B** [2 x 7 = 14]  
[Answer **ALL** the questions]

- a) Explain the concept of Coupling and Cohesion [ **OR** ]  
b) Explain briefly about Fundamental design concepts.
- a) Write short notes on walkthroughs and Inspections [ **OR** ]  
b) Explain about Managerial aspects of Software Maintenance

**Section C** [1 x 10 = 10]  
[Answer **ANY ONE** question]

- Explain any **THREE** Design techniques
- Describe about the System Testing.



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**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  
Title of the Paper : **SOFTWARE ENGINEERING** Max Marks: **30**

**Section A** [6 x 1 = 6]  
[Answer **ALL** the questions]

- \_\_\_\_\_ of a data flow diagram specifies processing activities.  
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**Section B** [2 x 7 = 14]  
[Answer **ALL** the questions]

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[Answer **ANY ONE** question]

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**ODD SEMESTER [2019-20]**

**INTERNAL ASSESSMENT TEST – I**

Class : **I IBCA (A&B)** Date: **19.10.19**  
Course Code : **17UCAC31** Time: **12.00-01.00 PM**  
Title of the Paper : **Data Structures** Max Marks: **30**

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**Section A**

**Answer ALL the Questions**

**6X1=6**

1. \_\_\_\_\_ is a binary tree in which every node except the leaf has only one child node.  
a) complete binary tree      b)skew tree      c)tree traversal      d)threaded tree
2. Children nodes with same parent are called \_\_\_\_\_.  
a)root      b)siblings      C)child      D)Leaf
3. A strictly binary tree with n leaves will have \_\_\_\_\_ nodes.  
a)2n      b)n+1      c)2n+1      d)2n-1
4. The process of executing programs on sample data sets to determine faulty results and correct them is called as \_\_\_\_\_.  
a)profiling      b)debugging      c)sampling      d)analyzing
5. A finite set of instructions that if followed accomplishes a particular task is \_\_\_\_\_.  
a)linear search      b) effectiveness      c)algorithm      d)finiteness
6. \_\_\_\_\_ refers to processing every node of the tree only once.  
a)traversal      b)searching      c)inserting      d)viewing

**Section B**

**Answer ALL the following questions**

**2X7=14**

7. a) Explain Expression Trees in detail. (OR)  
b) Write a short note on Huffman coding.
8. a) Write a short note on Performance Analysis. (OR)  
b) Describe Merge Sort with implementation

**Section C**

**Answer ANY one of the following**

**1X10=10**

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



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**ODD SEMESTER [2019-20]**

**INTERNAL ASSESSMENT TEST – I**

Class : **I IBCA (A&B)** Date: **19.10.19**  
Course Code : **17UCAC31** Time: **12.00-01.00 PM**  
Title of the Paper : **Data Structures** Max Marks: **30**

---

**Section A**

**Answer ALL the Questions**

**6X1=6**

1. \_\_\_\_\_ is a binary tree in which every node except the leaf has only one child node.  
a) complete binary tree      b)skew tree      c)tree traversal      d)threaded tree
2. Children nodes with same parent are called \_\_\_\_\_.  
a)root      b)siblings      C)child      D)Leaf
3. A strictly binary tree with n leaves will have \_\_\_\_\_ nodes.  
a)2n      b)n+1      c)2n+1      d)2n-1
4. The process of executing programs on sample data sets to determine faulty results and correct them is called as \_\_\_\_\_.  
a)profiling      b)debugging      c)sampling      d)analyzing
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a)linear search      b) effectiveness      c)algorithm      d)finiteness
6. \_\_\_\_\_ refers to processing every node of the tree only once.  
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**Section B**

**Answer ALL the following questions**

**2X7=14**

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**ODD SEMESTER [2019-20]**

**INTERNAL ASSESSMENT TEST – II**

Class : **I BCA (A&B)** Date: **22.10.19**  
Course Code : **17UCAC33** Time: **12.00-1.00 PM**  
Title of the Paper : **Operating System** Max Marks: **30**

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**Section A**

**Answer ALL the Questions**

**6X1=6**

1. A monitor is characterized by \_\_\_\_\_  
A. a set of programmer defined operators      B. an identifier  
C. the number of variables in it                  D. a protocols
2. Semaphores are mostly used to implement \_\_\_\_\_  
A. System calls    B. IPC Mechanism    C. System protection    D. Interrupts
3. A minimum of \_\_\_\_\_ variables are required to be shared between processes to solve the critical section problem.  
A. One                  B. Two                  C. Three                  D. Four
4. In \_\_\_\_\_ policy, when the last track has been visited in one direction, the arm is returned to the opposite end of the disk and scan begins again.  
A. Last in first out    B. Shortest service time first    C. SCAN    D. Circular SCAN
5. Random access in magnetic tapes is \_\_\_\_\_ compared to magnetic disks.  
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 the track is known as \_\_\_\_\_  
A. Seek time                  B. Rotational delay                  C. Access time    D. Transfer time

**Section B**

**Answer ALL the following questions**

**2X7=14**

7. a) Explain any two hardware solutions to Mutual Exclusion. (Or)  
b) Write a short note on Monitors.
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 following**

**1X10=10**

9. Explain the role of Semaphores in Mutual Exclusion. (OR)
10. Explain briefly any three Disk Scheduling algorithms.



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**ODD SEMESTER [2019-20]**

**INTERNAL ASSESSMENT TEST – II**

Class : **I BCA (A&B)** Date: **22.10.19**  
Course Code : **17UCAC33** Time: **12.00-1.00 PM**  
Title of the Paper : **Operating System** Max Marks: **30**

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**Section A**

**Answer ALL the Questions**

**6X1=6**

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**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**

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]** **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.
10. Discuss Cohen-Sutherland Line Clipping method.



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**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**

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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]** **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.
10. Discuss Cohen-Sutherland Line Clipping method.





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**G.T.N.ARTS COLLEGE (Autonomous)**  
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**ODD SEMESTER [2019-20]**

INTERNAL ASSESSMENT TEST – II

Class : III BCA A&B. Date : 21.10.2019  
 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]

- PHP recognizes constructors by the name \_\_\_\_ .  
 a) \_const() b) function\_cons() c) function\_Constructor() d) class name
- Which keyword is used to refer to the properties or methods within the class itself  
 a) private b) public c) protected d) \$this
- In PHP Cookies are set by using the \_\_\_\_  
 a) Set Cookie() function b) Set() c) Cookie() d) Set Session()
- In JavaScript, object properties can be accessed through the use of \_\_\_\_  
 a) + operator b) (.) operator c) can't access d) \* operator
- The \_\_\_\_ method of the document object allows you to get an element by the value of its id attribute.  
 a) getElementByClassName() b) CreateElement  
 c) getSelection() d) getElementById()
- 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]

- How can you create User defined functions in PHP [ **OR** ]  
 b) How can you create cookies in PHP
- Write any five properties of the Document object [ **OR** ]  
 b) Write a Javascript program for Recursion .

**Section C**

[1 x 10 = 10]

[Answer **ANY ONE** question]

- Write about Sessions in PHP.
- Explain some methods of Document Object.

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[2 x 7 = 14]

[Answer **ALL** the questions]

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- Write any five properties of the Document object [ **OR** ]  
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**Section C**

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**ODD SEMESTER [NOV, 2019]**

**INTERNAL ASSESSMENT TEST – II**

Class : **III BCA A & B** Date: 23.10.19  
Paper Code : **17CBCA51** Time: 12-1 PM  
Title of the Paper : **WEB DESIGN USING HTML** Max Marks: **25**

**Section A** [3 x 2 = 6 ]  
[Answer **ALL** the questions]

1. What is internet?
2. What is www?
3. What is html?

**Section B** [2 x 5 = 10]  
[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

**Section C** [1 x 9 = 9]  
[Answer **ANY ONE** question]

6. Explain about five golden rules of web designing.
7. Explain about basic structure of HTML document.

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**ODD SEMESTER [NOV, 2019]**

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[Answer **ALL** the questions]

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**Section B** [2 x 5 = 10]  
[Answer **ALL** the questions]

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[Answer **ANY ONE** question]

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**ODD SEMESTER [2019-20]**

**INTERNAL ASSESSMENT TEST – II**

Class : **III BCA A&B** Date : 23.10.19  
Paper Code : **17UCAA52** Time : 10.30-11.30AM  
Title of the Paper : **Digital Image Processing** Max Marks : **30**

**Section A**

[6 x 1 = 6]

[Answer **ALL** the questions]

1. The exponent in the power-law equation is referred to as \_\_\_\_\_.  
a) beta b) gamma c) alpha d) delta
2. \_\_\_\_\_ is a process that expands the range of intensity levels in an image so that it spans the full intensity range of the recording medium or display device.  
a) brightness stretching b) color stretching c) contrast stretching  
d) saturation stretching
3. The intensity of each pixel in a 256-level gray-scale image is composed of \_\_\_\_ bits.  
a) 8 b) 16 c) 32 d) 64
4. \_\_\_\_\_ is the process of moving a filter mask over the image and computing the sum of products at each location.  
a) Correlation b) convolution c) masking d) foundation
5. Gaussian noise is also called as \_\_\_\_\_.  
a) Difficult noise b) simple noise c) complex noise d) normal noise
6. If either  $P_a$  or  $P_b$  is zero, the impulse noise is called \_\_\_\_\_.  
a) quadpolar b) tripolar c) bipolar d) unipolar

**Section B**

[Answer **ALL** the questions]

[2 x 7 = 14]

(OR)

- 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?

**Section C**

[1 x 10 = 10]

[Answer **ANY ONE** question]

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

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**ODD SEMESTER [2019-20]**

**INTERNAL ASSESSMENT TEST – II**

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