Reg. No: | 1 | 7 | B | C | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Class : **I BCA A&B.** Date : **17-08-18**
Paper Code : **17UCAC11** Time : **9am-10am**
Title of the Paper : **C PROGRAMMING** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1 Every C program requires a _____ function
a) symbolic b) main
c) sub program d) system

2 In the following which is not a keyword
a)for b) void
c)main d) else

3 The expression !(x!=y) can be replaced by the expression _____
a)x < y b)x > y c)x = = y d)x < = y

4 Keywords are of ___ types
(a)34 (b) 32 (c) 52 (d)2

5 C program can be viewed as a group of building blocks called _____
(a) Function (b) include (c) statement (d) definition

6 Which one of the following belongs to logical operator?
(a):: (b) $$ (c) && (d) —

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Explain the basic structure of c program **[OR]**
b) Discuss about any four operators in detail

8. a) Write in detail about printf() and scanf() functions **[OR]**
b) Write a c program for finding a biggest among three numbers

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. Explain about C Tokens
10. Write in detail about any two branching statement with example

Reg.No:

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Class : **I BCA A&B.** Date : **17-08-18**
Paper Code : **17UCAC11** Time : **9am-10am**
Title of the Paper : **C PROGRAMMING** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1 Every C program requires a _____ function
a) symbolic b) main
c) sub program d) system

2 In the following which is not a keyword
a)for b) void
c)main d) else

3 The expression !(x!=y) can be replaced by the expression _____
a)x < y b)x > y c)x = = y d)x < = y

4 Keywords are of ___ types
(a)34 (b) 32 (c) 52 (d)2

5 C program can be viewed as a group of building blocks called _____
(a) Function (b) include (c) statement (d) definition

6 Which one of the following belongs to logical operator?
(a):: (b) $$ (c) && (d) —

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Explain the basic structure of c program **[OR]**
b) Discuss about any four operators in detail

8. a) Write in detail about printf() and scanf() functions **[OR]**
b) Write a c program for finding a biggest among three numbers

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. Explain about C Tokens
10. Write in detail about any two branching statement with example

Reg.No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Programme : **II BCA (A&B)** Date: **17 .08.18**
Course code : **17UCAC32** Time: **10.30-11.30am**
Course name : **Computer Graphics and Multimedia** Max Marks: **30**

Section A

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

1. DDA stands for_____.
   a) Digital Diagram Analyzer **b)** Digital Differential Analyzer
   c) Different Diagram Analyzer d) Digital Different Analyzer
2. In circle if (x, y) is outside the circle boundary means the values of fc(x, y) is _____.
   a) =0 b) <0 c) ==0 d) >0
3. Presentation graphics is used to produce illustrations for_____.
   a) Design b) Reports c) display d) production
4. _____ is a transformation that produce a mirror image of an object.
   a) Shear b) Rotation c) Reflection d) Scaling

5._____ transformation alters the size of an object.
   a)Rotation b) Scaling c) Translation d) Move
6. Rotation transformation equation about the coordinate origin is written as_____
   a)P=R(Q)+P b) P'=RQ)+P c) P=R(Q).P' d) P'=R(Q).P

Section B

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

7. a) Explain in detail about DDA line drawing Algorithm.
   (Or)
   b) Explain in detail about Bresenham's Line drawing Algorithm.
8. a) What are the Basic transformation available in Computer Graphics?
   (Or)
   b) Write the steps and explain about other Transformations.

Section C

Answer ANY one of the following **1X10=10**

9. Explain in detail about Mid-point Circle Drawing Algorithm?
10. Write the steps and explain in detail about Composite Transformations.

Reg.No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Programme : **II BCA (A&B)** Date: **17.08.18**
Course Code : **17UCAC32** Time: **10.30-11.30 am**
Course name : **Computer Graphics and Multimedia** Max Marks: **30**

Section A

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

1. DDA stands for_____.
   a) Digital Diagram Analyzer **b)** Digital Differential Analyzer
   c) Different Diagram Analyzer d) Digital Different Analyzer
2. In circle if (x, y) is outside the circle boundary means the values of fc(x, y) is _____.
   a) =0 b) <0 c) ==0 d) >0
3. Presentation graphics is used to produce illustrations for_____.
   a) Design b) Reports c) display d) production
4. _____ is a transformation that produce a mirror image of an object.
   a) Shear b) Rotation c) Reflection d) Scaling

5._____ transformation alters the size of an object.
   a)Rotation b) Scaling c) Translation d) Move
6. Rotation transformation equation about the coordinate origin is written as_____
   a)P=R(Q)+P b) P'=RQ)+P c) P=R(Q).P' d) P'=R(Q).P

Section B

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

7. a) Explain in detail about DDA line drawing Algorithm.
   (Or)
   b) Explain in detail about Bresenham's Line drawing Algorithm.
8. a) What are the Basic transformation available in Computer Graphics?
   (Or)
   b) Write the steps and explain about other Transformations.

Section C

Answer ANY one of the following **1X10=10**

9. Explain in detail about Mid-point Circle Drawing Algorithm?
10. Write the steps and explain in detail about Composite Transformations.

Reg. No: | 1 | 7 | B | C | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Class : **II BCA** Date : **16-08-18**
Paper Code : **17UCAC31** Time :12-**1 pm**
Title of the Paper : **DATA STRUCTURE AND COMPTER ALGORITHMS** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1._____ is a data type in which the members of the data type are unknown to users of the type.
a)Real b)ADT c)Boolean d)Fraction

2._____ is a square matrix with all its non zero elements below the main diagonal.
a)upper triangle matrices b) lower triangle matrices
c) lower and upper triangle matrices d) tri diagonal matrices

3_____ field indicating end of the list.
a)data b)address c)null d)next

4.Which one is nonlinear data structure
a)stack b)queue c)tree d)all of the above

5._____ process all nodes of a tree by processing the root then recursively processing all left and right sub trees.
a)in order b)preorder c)post order d)level order

6._____ refers to processing every node of the tree once and only once.
a)traversal b)searching c)inserting d)viewing

7. Which one of the following belongs to logical operator?
(a):: (b) $$ (c) && (d) —

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Binary search is a divide and conquer method. Justify. **[OR]**
b) Write an algorithm for finding maximum and minimum
8. a) Explain linked list implementation of ADT **[OR]**
b) Explain various matrix representation

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. How does a quick sort perform? Explain with examples.
10. Explain one and two dimensional array with examples

Reg.No:

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Class : **II BCA** Date : **16-08-18**
Paper Code : **17UCAC31** Time : 12-**1 pm**
Title of the Paper : **DATA STRUCTURE AND COMPTER ALGORITHMS** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1._____ is a data type in which the members of the data type are unknown to users of the type.
a)Real b)ADT c)Boolean d)Fraction

2._____ is a square matrix with all its non zero elements below the main diagonal.
a)upper triangle matrices b) lower triangle matrices
c) lower and upper triangle matrices d) tri diagonal matrices

3_____ field indicating end of the list.
a)data b)address c)null d)next

4.Which one is nonlinear data structure
a)stack b)queue c)tree d)all of the above

5._____ process all nodes of a tree by processing the root then recursively processing all left and right sub trees.
a)in order b)preorder c)post order d)level order

6._____ refers to processing every node of the tree once and only once.
a)traversal b)searching c)inserting d)viewing

7. Which one of the following belongs to logical operator?
(a):: (b) $$ (c) && (d) —

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Binary search is a divide and conquer method. Justify. **[OR]**
b) Write an algorithm for finding maximum and minimum
8. a) Explain linked list implementation of ADT **[OR]**
b) Explain various matrix representation

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. How does a quick sort perform? Explain with examples.
10. Explain one and two dimensional array with examples

Reg.No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Programme : **II BCA (A&B)** Date : **20 .08.18**
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.

Reg.No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Programme : **II BCA (A&B)** Date: **20.08.18**
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
   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

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.

Reg.No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Programme : **II BCA (A&B)** Date: **18 .08.18**
Course code : **17UCAC33** Time: **12-1 pm**
Course name : **Operating System** Max Marks: **30**

Section A

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

1. To access the services of operating system, the interface is provided by the
   A. System calls B. API C. Assembly Instruction D. Library
2. The concept of running several programs at the same time is called _____
   A. Multiprocessing B. Multiprogramming C. Multitasking D. Multithreading
3. Process is _____
   A. Program in high level language B. Contents of main memory
   C. a program in execution D. a job in secondary memory
4. In _____ only one process at a time is allowed in its critical section, among all processes that have critical sections for the same resource.
   A. Mutual Exclusion B. Synchronization C. Deadlock D. Starvation
5. What are the basic process states in operating system?
   A. Create, Blocked, Destroy B. Ready, Running, and Resume
   C. Ready, Suspend, Resume D. Ready, Running, Blocked
6. In which type of operating system architecture kernel is small and isolated?
   A. Monolithic B. Layer C. Microkernel D. Network

Section B

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

7. a) Give a brief account on OS components and goals?
   (Or)
   b) Discuss on process states and state transitions with diagram.
8. a) What is interrupt and describe interrupt processing?
   (Or)
   b) Explain the Peterson's algorithm for mutual exclusion?

Section C

Answer ANY one of the following **1X10=10**

9. Give a detailed note on types of OS architecture?
10. Explain the Lamport's Bakery algorithm for N -thread mutual exclusion?

Reg.No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Programme : **II BCA (A&B)** Date: **18.08.18**
Course Code : **17UCAC33** Time: **12-1 pm**
Course name : **Operating System** Max Marks: **30**

Section A

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

1. To access the services of operating system, the interface is provided by the
   A. System calls B. API C. Assembly Instruction D. Library
2. The concept of running several programs at the same time is called _____
   A. Multiprocessing B. Multiprogramming C. Multitasking D. Multithreading
3. Process is _____
   A. Pro gram in high level language B. Contents of main memory
   C. a program in execution D. a job in secondary memory
4. In _____ only one process at a time is allowed in its critical section, among all processes that have critical sections for the same resource.
   A. Mutual Exclusion B. Synchronization C. Deadlock D. Starvation
5. What are the basic process states in operating system?
   A. Create, Blocked, Destroy B. Ready, Running, and Resume
   C. Ready, Suspend, Resume D. Ready, Running, Blocked
6. In which type of operating system architecture kernel is small and isolated?
   A. Monolithic B. Layer C. Microkernel D. Network

Section B

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

7. a) Give a brief account on OS components and goals?
   (Or)
   b) Discuss on process states and state transitions with diagram.
8. a) What is interrupt and describe interrupt processing?
   (Or)
   b) Explain the Peterson's algorithm for mutual exclusion?

Section C

Answer ANY one of the following **1X10=10**

9. Give a detailed note on types of OS architecture?
10. Explain the Lamport's Bakery algorithm for N -thread mutual exclusion?

Reg.No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Programme : **III BCA (A&B)** Date: **17 .08.18**
Course code : **SCAGC52** Time: **10.30-11.30 am**
Course name : **Data Communication and Computer Networks** Max Marks: **30**

Section A

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

1.----------Provides a basic electronic mail facility
A. MTP B. FTP C. Telnet D. SMTP

2. Frequency between 1 and 300 GHz are called ----------
A. Bandwidth B. Waves C. Frequency D. Microwaves

3. Two (or) more ground based microwave transmitter/receivers known as --------
A. Signals B. Station C. earth station D. ground station

4. CRC stands for----------
A. Cyclic Radio Circle B. Cyclic Redundancy Check
C. Cyclic Redundancy Circle D. Cyclic Ratio Check

5.A ---------- acts as a pathway, allowing data to flow one device on a segment to another
A. Passive hub B. Active hub C. hub D. Switching hub

6. ---------- divides the channels into distinct time slots.
A. TMDA B. TDMA C. TDA D. TADM

Section B

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

7. a) Give a brief account of STAR Topology.
(Or)
b) Explain in details of What are the categories of Network.

8. a) Explain in detail about LAN equipments.
(Or)
b) Explain in detail about WAN equipments.

Section C

Answer ANY one of the following **1X10=10**

9. Give a detailed note on OSI model?

10. What are the Types of Errors? Explain in detail.

Reg.No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Programme : **III BCA (A&B)** Date: **17.08.18**
Course Code :**SCAGC52** Time: 10.30-**11.30am**
Course name : **Data Communication and Computer Networks** Max Marks: **30**

Section A

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

1.----------Provides a basic electronic mail facility
A. MTP B. FTP C. Telnet D. SMTP

2. Frequency between 1 and 300 GHz are called ----------
A. Bandwidth B. Waves C. Frequency D. Microwaves

3. Two (or) more ground based microwave transmitter/receivers known as --------
A. Signals B. Station C. earth station D. ground station

4. CRC stands for----------
A. Cyclic Radio Circle B. Cyclic Redundancy Check
C. Cyclic Redundancy Circle D. Cyclic Ratio Check

5.A ---------- acts as a pathway, allowing data to flow one device on a segment to another
A. Passive hub B. Active hub C. hub D. Switching hub

6. ---------- divides the channels into distinct time slots.
A. TMDA B. TDMA C. TDA D. TADM

Section B

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

7. a) Give a brief account of STAR Topology.
(Or)
b) Explain in details of What are the categories of Network.

8. a) Explain in detail about LAN equipments.
(Or)
b) Explain in detail about WAN equipments.

Section C

Answer ANY one of the following **1X10=10**

9. Give a detailed note on OSI model?

10. What are the Types of Errors? Explain in detail.

Reg.No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Programme : **III BCA (A&B)** Date: **16 .08.18**
Course code : **SCAGC51** Time: **12-1 pm**
Course name : **Relational DataBase Management System** Max Marks: **30**

Section A

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

1.---------- is a collection of high level data description constructs that hide low level storage details.

A. Data B. Data model C. DBMS D. Relation

2. A description of data in terms of a data model is called a _____.

A. Schema B. Entity C. Relationships D. Attributes

3. UML stands for _____

A. Unity ModularityLevel B. Unified modeling Language
C. Unified Modularity Level D. Unity modularity Language

4. _____ is the number of tuples in the relation

A. Degree B. Cardinality C. Domain D. Arity

5. In Relation Algebra, the operator used to select the number of columns is ----------

A. π B. ← C. α D. ×

6. ---------- is a variable that ranges over the values in the domain of some attribute..

A. Domain variable B. Tuple variable C. Domain D. Entity

Section B

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

7. a) Explain the level of abstraction in a DBMS.

(Or)

b) Explain the structure of DBMS.

8. a) Write about the integrity constraints over relations.

(Or)

b) Explain Tuple Relational calculus .

Section C

Answer ANY one of the following **1X10=10**

9. Give a detailed note on additional features of ER model?
10. Explain the set operations on Relational Algebra.

Reg.No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Programme : III BCA (A&B) Date: 16 .08.18
Course code : SCAGC51 Time: 12-1 pm
Course name : Relational DataBase Management System Max Marks: 30

Section Section A

Answer ALL the Questions 6X1=6

1.---------- is a collection of high level data description constructs that hide low level storage details.

A. Data B. Data model C. DBMS D. Relation

2. A description of data in terms of a data model is called a _____.

A. Schema B. Entity C. Relationships D. Attributes

3. UML stands for _____

A. Unity ModularityLevel B. Unified modeling Language
C. Unified Modularity Level D. Unity modularity Language

4. _____ is the number of tuples in the relation

A. Degree B. Cardinality C. Domain D. Arity

5. In Relation Algebra, the operator used to select the number of columns is ----------

A. π B. ← C. α D. ×

6. ---------- is a variable that ranges over the values in the domain of some attribute..

A. Domain variable B. Tuple variable C. Domain D. Entity

Section B

Answer ALL the following questions 2X7=14

7. a) Explain the level of abstraction in a DBMS.

(Or)

b) Explain the structure of DBMS.

8. a) Write about the integrity constraints over relations.

(Or)

b) Explain Tuple Relational calculus .

Section C

Answer ANY one of the following 1X10=10

9. Give a detailed note on additional features of ER model?
10. Explain the set operations on Relational Algebra.

Reg.No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Programme : **III BCA (A&B)** Date: **18.08.18**
Course Code : **SCAGC53** Time: **12-1 pm**
Course name : **Operating System** Max Marks: **30**

Section A

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

1._____which determines when and how long a process executes on a processor.
A. IO manager B. Memory manager C. Process Scheduler
D. Memory manager

2. The concept of running several programs at the same time is called _____
A. Multiprocessing B. Multiprogramming C. Multitasking D. Multithreading

3. Process is _____
A. Program in high level language B. Contents of main memory
C. a program in execution D. a job in secondary memory

4. In _____ only one process at a time is allowed in its critical section, among all processes that have critical sections for the same resource.
A. Mutual Exclusion B. Synchronization C. Deadlock D. Starvation

5 What are the basic process states in operating system?
A. Create, Blocked, Destroy B. Ready, Running, and Resume
C. Ready, Suspend, Resume D. Ready, Running, Blocked

6. In which type of operating system architecture kernel is small and isolated?
A. Monolithic B. Layer C. Microkernel D. Network

Section B

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

7. a) Give a brief account on OS components and goals?
(Or)
b) Discuss on process states and state transitions with diagram.

8. a) Explain Inter process communication in detail.
(Or)
b) Explain the Peterson's algorithm for mutual exclusion?

Section C

Answer ANY one of the following **1X10=10**

9. Give a detailed note on types of OS architecture?

10. Explain the Dekker's algorithm for N -thread mutual exclusion?

Reg.No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2018-19]
INTERNAL ASSESSMENT TEST – I

Programme : **III BCA (A&B)** Date: **18.08.18**
Course Code : **SCAGC53** Time: **12-1 pm**
Course name : **Operating System** Max Marks: **30**

Section A

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

1._____which determines when and how long a process executes on a processor.
A. IO manager B. Memory manager C. Process Scheduler
D. Memory manager

2. The concept of running several programs at the same time is called _____
A. Multiprocessing B. Multiprogramming C. Multitasking D. Multithreading

3. Process is _____
A. Pro gram in high level language B. Contents of main memory
C. a program in execution D. a job in secondary memory

4. In _____ only one process at a time is allowed in its critical section, among all processes that have critical sections for the same resource.
A. Mutual Exclusion B. Synchronization C. Deadlock D. Starvation

5 What are the basic process states in operating system?
A. Create, Blocked, Destroy B. Ready, Running, and Resume
C. Ready, Suspend, Resume D. Ready, Running, Blocked

6. In which type of operating system architecture kernel is small and isolated?
A. Monolithic B. Layer C. Microkernel D. Network

Section B

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

7. a) Give a brief account on OS components and goals?
(Or)
b) Discuss on process states and state transitions with diagram.

8. a) Explain Inter process communication in detail.
(Or)
b) Explain the Peterson's algorithm for mutual exclusion?

Section C

Answer ANY one of the following **1X10=10**

9. Give a detailed note on types of OS architecture?

10. Explain the Dekker's algorithm for N -thread mutual exclusion?

Reg. No: | 1 | 7 | B | C | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]
INTERNAL ASSESSMENT TEST – II

Class : **I BCA A&B.** Date : **25-10-17**
Paper Code : **17UCAC11** Time : **9-10am**
Title of the Paper : **C PROGRAMMING** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1 An array is _____data type
a) derived b) fundamental
c) used defined d) primary

2 _____format specification to read in a string of character
a) %s b) %c
c) %h d) %f

3 Function header is consist of _____parts
a) 4 b) 2
c) 3 d) 5

4 A function declaration is also known as function____
a)name b) type
c)prototype d) definition

5 The ____ are integer oriented functions
a)putw() b) ftell()
c)fprintf() d) getc()

6 The function fscanf from the file____
a) ctype b) stdin
c) math d) ctype

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Explain about one dimension array **[OR]**
b) Explain about any four string handling function

8. a) Discuss about function declaration **[OR]**
b) Discuss about defining and opening file

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. Explain about definition of functions
10. Explain input output operation on files

Reg. No: | 1 | 7 | B | C | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]
INTERNAL ASSESSMENT TEST – II

Class : **I BCA A&B.** Date : **25-10-17**
Paper Code : **17UCAC11** Time : **9-10am**
Title of the Paper : **C PROGRAMMING** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1 An array is _____data type
a) derived b) fundamental
c) used defined d) primary

2 _____format specification to read in a string of character
a) %s b) %c
c) %h d) %f

3 Function header is consist of _____parts
a) 4 b) 2
c) 3 d) 5

4 A function declaration is also known as function____
a)name b) type
c)prototype d) definition

5 The ____ are integer oriented functions
a)putw() b) ftell()
c)fprintf() d) getc()

6 The function fscanf from the file____
a) ctype b) stdin
c) math d) ctype

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Explain about one dimension array **[OR]**
b) Explain about any four string handling function

8. a) Discuss about function declaration **[OR]**
b) Discuss about defining and opening file

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. Explain about definition of functions
10. Explain input output operation on files

Reg. No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]
INTERNAL ASSESSMENT TEST – II

Class : **II B.Sc MATHS** Date : **23-10-17**
Paper Code : **17UMAA31** Time :**12-1 pm**
Title of the Paper : **C PROGRAMMING** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1 _____ function joins two strings together
a) strcpy() b) strcmp()
c) strlen() d) strcat()

2 _____format specification to read in a string of character
a) %s b) %c
c) %h d) %f

3 function header is consist of _____parts
a) 4 b) 2
c) 3 d) 5

4 A function declaration is also known as function____
a) name b) type
c) prototype d) definition

5 The structure keyword is_____
a) structure b) struct
c) char d) int

6 The structure name is called as a_____
a) main() b) tag name
c) pointer name d) struct name

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Explain about **one dimension array** **[OR]**
b) Explain about any **four string handling** function

8. a) Discuss about **recursive function** with an example **[OR]**
b) Write a program for **matrix multiplication**

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. Explain about **structures** with an example
10. Explain about **function categories** with an example

Reg. No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]
INTERNAL ASSESSMENT TEST – II

Class : **II B.Sc MATHS** Date : **23-10-17**
Paper Code : **17UMAA31** Time : **12-1pm**
Title of the Paper : **C PROGRAMMING** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1 _____ function joins two strings together
a) strcpy() b) strcmp()
c) strlen() d) strcat()

2 _____format specification to read in a string of character
a) %s b) %c
c) %h d) %f

3 function header is consist of _____parts
a) 4 b) 2
c) 3 d) 5

4 A function declaration is also known as function____
a) name b) type
c) prototype d) definition

5 The structure keyword is_____
a) structure b) struct
c) char d) int

6 The structure name is called as a_____
a) main() b) tag name
c) pointer name d) struct name

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Explain about **one dimension array** **[OR]**
b) Explain about any **four string handling** function

8. a) Discuss about **recursive function** with an example **[OR]**
b) Write a program for **matrix multiplication**

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. Explain about **structures** with an example
10. Explain about **function categories** with an example

Reg. No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]
INTERNAL ASSESSMENT TEST – I

Class : **II B.com (CA)** Date : **23-08-17**
Paper Code : **CCADC31** Time : **9- 10 am**
Title of the Paper : **DATABASE APPLICATIONS** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1 What is refined data?
a) information b) knowledge
c) statistics d) all of the above

2 Which one of the following is top down process?
a) Generalization b) specialization
c) Categorization d) all of the above

3 Which one of the following has the ability to handle m: m relationship?
a) ER model b) network model
c) both d) None of the above

4 SQL stands for
a) structure query language b) sequence queue language
c) sequence query language d) storage query language

5 _____schema defines how and where data are organized in physical storage area.
a) Internal Schema b)External Schema
c) external Schema d) Both (a) and (b)

6 Which one of the following is high level conceptual data model?
a) ER model b) relational model
c) Network model d) all of the above

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Illustrate the characteristics of data in database. **[OR]**
b) Write a short note on importance of information quality in data base management system.

8. a) Explain the basic structure of SQL queries with suitable examples. **[OR]**
b) Explain the various built in data types in SQL.

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. Explain briefly about the network and hierarchical data model with its advantages and disadvantages.

10. Explain in detail about the components and symbols in ER model with suitable examples.

Reg. No: | | | | | | | | |

N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]
INTERNAL ASSESSMENT TEST – I

Class : **II B.com (CA)** Date : **23-08-17**
Paper Code : **CCADC31** Time : **9- 10 am**
Title of the Paper : **DATABASE APPLICATIONS** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1 What is refined data?
a) information b) knowledge
c) statistics d) all of the above

2 Which one of the following is top down process?
a) Generalization b) specialization
c) Categorization d) all of the above

3 Which one of the following has the ability to handle m: m relationship?
a) ER model b) network model
c) both d) None of the above

4 SQL stands for
a) structure query language b) sequence queue language
c) sequence query language d) storage query language

5 _____schema defines how and where data are organized in physical storage area.
a) Internal Schema b)External Schema
c) external Schema d) Both (a) and (b)

6 Which one of the following is high level conceptual data model?
a) ER model b) relational model
c) Network model d) all of the above

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Illustrate the characteristics of data in database. **[OR]**
b) Write a short note on importance of information quality in data base management system.

8. a) Explain the basic structure of SQL queries with suitable examples. **[OR]**
b) Explain the various built in data types in SQL.

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. Explain briefly about the network and hierarchical data model with its advantages and disadvantages.

10. Explain in detail about the components and symbols in ER model with suitable examples.

Reg. No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]
INTERNAL ASSESSMENT TEST – I

Class : **II B.Com.** Date : **23-08-17**
Paper Code : **CCRDS31** Time : **9- 10 am**
Title of the Paper : **FUNDAMENTALS OF COMPUTER** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1 _____ is not a characteristic of computer
a) High cost b) Speed
c) Accuracy d) Flexibility

2 _____ were used in first generation of Computers.
a) Transistors b) Vacuum tube
c) VLSI d) Integrated circuit

3 Group of 8 bits is called
a) Octet b) Quad
c) Nibble d) Byte

4 The equivalent decimal number of a maximum binary number of length 4 bit is
a) 2 b) 5
c) 4 d) 15

5 Who is the father of the computer?
a) Charles Babbage b) John Napier
c) Blaise Pascal d) Lady Ada Lovelace

6 Binary Equivalent for $(A5)_{16}=(?)_2$
a)1010 0101 b)11100110
c)01011010 d)10101011

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) What are the capabilities of computer? Explain them. **[OR]**
b) Discuss the different generation of computers in details.

8. a) Explain the method for converting Binary to Decimal with example. **[OR]**
b) What are the advantages of using Decimal number System?

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. Discuss the different types of computers on the basis of processing data.

10. Perform the following:
a) $(11000.0011)_2=(?)_{10}$ b) $(87.8125)_{10}=(?)_2$

Reg. No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]
INTERNAL ASSESSMENT TEST – I

Class : **II B.Com.** Date : **23-08-17**
Paper Code : **CCRDS31** Time : **9- 10 am**
Title of the Paper : **FUNDAMENTALS OF COMPUTER** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1 _____ is not a characteristic of computer
a) High cost b) Speed
c) Accuracy d) Flexibility

2 _____ were used in first generation of Computers.
a) Transistors b) Vacuum tube
c) VLSI d) Integrated circuit

3 Group of 8 bits is called
a) Octet b) Quad
c) Nibble d) Byte

4 The equivalent decimal number of a maximum binary number of length 4 bit is
a) 2 b) 5
c) 4 d) 15

5 Who is the father of the computer?
a) Charles Babbage b) John Napier
c) Blaise Pascal d) Lady Ada Lovelace

6 Binary Equivalent for $(A5)_{16}=(?)_2$
a)1010 0101 b)11100110
c)01011010 d)10101011

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) What are the capabilities of computer? Explain them. **[OR]**
b) Discuss the different generation of computers in details.

8. a) Explain the method for converting Binary to Decimal with example. **[OR]**
b) What are the advantages of using Decimal number System?

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. Discuss the different types of computers on the basis of processing data.

10. Perform the following:
a) $(11000.0011)_2=(?)_{10}$ b) $(87.8125)_{10}=(?)_2$

Reg. No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]
INTERNAL ASSESSMENT TEST – I

Class : **II BCA A& B** Date : **21-08-17**
Paper Code : **UCA16A31** Time : **12-1pm**
Title of the Paper : **Computer Based Financial Accounting** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1. Accounting principles are generally based on ----------
   a) practicability b) subjectivity c) necessity d) convenience in recording
2. Dual aspect concept result in the accounting equation.
   a) Capital = Assets+ Liabilities b) Capital = Assets - Liabilities
   c) Assets = Capital – Liabilities d)Liabilities = Assets + Capital
3. As per the business entity concept business is different from the ----------
   a) owner b) banker c) government d) debtor
4. -------- is a book of original entry.
   a) ledger b)journal c) balance sheet d) trial balance
5. Trial balance is prepared to fid out the----------
   a) profit or loss b)financial position c) arithmetical accuracy d) none of these
6. Posting on the credit side of an account is written as -------
   a) To b) By c) Being d) none

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Explain the accounting concepts in detail. **[OR]**
   b) what are the types of accounting and mention the accounting rules.
8. a) Journalize the following transactions of Mr. Moorthy:-

2015		₹
Feb 3	Received cash from Ram Kumar	60000
4	Purchased goods for cash	15000
11	Soldgoods to Damodaran	22000
13	Paid to Ram Kumar	40000
17	Received from Damodaran	20000
20	Bought furniture from Jegadeesan	5000
27	Paid rent	1200
29	Paid salary	2500

[OR]

P.T.O

Reg. No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]
INTERNAL ASSESSMENT TEST – I

Class : **II BCA A& B** Date : **21-08-17**
Paper Code : **UCA16A31** Time : **12-1pm**
Title of the Paper : **Computer Based Financial Accounting** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1. Accounting principles are generally based on ----------
   a) practicability b) subjectivity c) necessity d) convenience in recording
2. Dual aspect concept result in the accounting equation.
   a) Capital = Assets+ Liabilities b) Capital = Assets - Liabilities
   c) Assets = Capital – Liabilities d)Liabilities = Assets + Capital
3. As per the business entity concept business is different from the ----------
   a) owner b) banker c) government d) debtor
4. -------- is a book of original entry.
   a) ledger b)journal c) balance sheet d) trial balance
5. Trial balance is prepared to fid out the----------
   a) profit or loss b)financial position c) arithmetical accuracy d) none of these
6. Posting on the credit side of an account is written as -------
   a) To b) By c) Being d) none

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Explain the accounting concepts in detail. **[OR]**
   b) what are the types of accounting and mention the accounting rules.
8. a) Journalize the following transactions of Mr. Moorthy:-

2015		₹
Feb 3	Received cash from Ram Kumar	60000
4	Purchased goods for cash	15000
11	Soldgoods to Damodaran	22000
13	Paid to Ram Kumar	40000
17	Received from Damodaran	20000
20	Bought furniture from Jegadeesan	5000
27	Paid rent	1200
29	Paid salary	2500

[OR]

P.T.O

b) Record the following transactions in the ledger of Mr. Radha and balance the same:

2009		₹
Jan 1	Radha commenced business with cash	15000
3	Paid into bank	5000
5	Bought goods for	3600
10	Sold goods for	2500
11	Withdrew cash from bank	600

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9.Prepare Trial balance of Gopal Traders as on 30th June 2008, from the following details:- Capital - 50000 ; Cash at bank - 2000 ; Cash in hand - 500 ; Loan - 10000 ; Land - 13500 ; Sundry Creditors - 12200 ; Printing - 1200 ; Carriage - 800 ; Insurance - 800 ; Drawings - 6000 ; Sundry Debtors - 15000 ; Discount (cr) - 2400 ; Buildings - 30000 ; Wages - 15000 ; Salaries - 10000 ; Sales - 125000 ; Coal - 2200 ; Rent - 1800 ; Closing Stock - 8000 ; Purchase - 70000 ; Machinery - 12000 ; Discount (Dr) - 3800 ; Furniture - 7000.

10.Journalize the following transactions in the books of Anbu:- 2014

				Rs
Jan	1	Started business with cash		9000
	1	Paid into bank		5000
	2	Goods purchased for cash		3000
	3	Purchase of furniture and payment by cheque		1000
	5	Sold goods to Balaram for cash		1200
	8	Sold goods to Arun		800
	10	Goods taken over by Anbu for personal use		500
	10	Goods purchased from Anand	4000	
	15	Received cash from Arun 790 and discount allowed to him		10
	20	Cash paid to Anand 3950 in full settlement of his account.		

b) Record the following transactions in the ledger of Mr. Radha and balance the same:

2009		₹
Jan 1	Radha commenced business with cash	15000
3	Paid into bank	5000
5	Bought goods for	3600
10	Sold goods for	2500
11	Withdrew cash from bank	600

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9.Prepare Trial balance of Gopal Traders as on 30th June 2008, from the following details:- Capital - 50000 ; Cash at bank - 2000 ; Cash in hand - 500 ; Loan - 10000 ; Land - 13500 ; Sundry Creditors - 12200 ; Printing - 1200 ; Carriage - 800 ; Insurance - 800 ; Drawings - 6000 ; Sundry Debtors - 15000 ; Discount (cr) - 2400 ; Buildings - 30000 ; Wages - 15000 ; Salaries - 10000 ; Sales - 125000 ; Coal - 2200 ; Rent - 1800 ; Closing Stock - 8000 ; Purchase - 70000 ; Machinery - 12000 ; Discount (Dr) - 3800 ; Furniture - 7000.

10.Journalize the following transactions in the books of Anbu:- 2014

				Rs
Jan	1	Started business with cash		9000
	1	Paid into bank		5000
	2	Goods purchased for cash		3000
	3	Purchase of furniture and payment by cheque		1000
	5	Sold goods to Balaram for cash		1200
	8	Sold goods to Arun		800
	10	Goods taken over by Anbu for personal use		500
	10	Goods purchased from Anand	4000	
	15	Received cash from Arun 790 and discount allowed to him		10
	20	Cash paid to Anand 3950 in full settlement of his account.		

Reg. No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]
INTERNAL ASSESSMENT TEST – II

Class : **II B.C.A.** Date : **24-10-17**
Paper Code : **SCAGC31** Time : **12- 1 pm**
Title of the Paper : **JAVA PROGRAMMING** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1 The first thread to be executed is _____ thread.
a) Main b) alive
c) Child d) first

2 The_____ method is the first method to be called.
a) init() b) start()
c) load() d) run()

3 The _____ executes a call to run()
a) try b) catch
c) start() d) thread

4 An exception is an abnormal condition that arise in code sequence at _____time.
a) design b) run
c) compile d) testing

5 Program statements that you want to monitor for exceptions are contained within a_____ block.
a) catch b) try
c) throw d) finally

6 The _____reader class allows one or more character to be returned to the input stream.
a) file b) pushback
c) character d) byte

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Explain the **wrapper class types**. **[OR]**
b) Write notes on **string buffer class.**

8. a) Explain the **iostreams** in java. **[OR]**
b) Write a program for **random access** file.

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. Explain **exception in java** with an example.
10. Discuss about **threads** with an example

Reg. No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]
INTERNAL ASSESSMENT TEST – II

Class : **II B.C.A.** Date : **24-10-17**
Paper Code : **SCAGC31** Time : **12- 1 pm**
Title of the Paper : **JAVA PROGRAMMING** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1 The first thread to be executed is _____ thread.
a) Main b) alive
c) Child d) first

2 The_____ method is the first method to be called.
a) init() b) start()
c) load() d) run()

3 The _____ executes a call to run()
a) try b) catch
c) start() d) thread

4 An exception is an abnormal condition that arise in code sequence at _____time.
a) design b) run
c) compile d) testing

5 Program statements that you want to monitor for exceptions are contained within a_____ block.
a) catch b) try
c) throw d) finally

6 The _____reader class allows one or more character to be returned to the input stream.
a) file b) pushback
c) character d) byte

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Explain the **wrapper class types**. **[OR]**
b) Write notes on **string buffer class.**

8. a) Explain the **iostreams** in java. **[OR]**
b) Write a program for **random access** file.

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. Explain **exception in java** with an example.
10. Discuss about **threads** with an example

Reg. No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]
INTERNAL ASSESSMENT TEST – II

Class : **II B.C.A.** Date : **25-10-17**
Paper Code : **SCAGA31** Time : **12- 1 pm**
Title of the Paper : **Digital Principles and Computer Programming** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1 Subtract the following : 01001111- 00000101
a) 01001010 b) 10101010
c) 01001100 d)101101010

2 What is the 2's complement representation of 11010110?
a) 00101001 b) 00101001
c)11110110 d)01101001

3 A logic circuit with three inputs and two outputs is _____
a) Full adder b) Half adder
c) Look ahead carry d) Parallel adder

4 The instruction read from memory is placed in the _____
a)AR b) AC
c)IR d) TR

5 _____ the control logic is implemented with gates, flip flops, decoder and other circuits.
a) Multiplexer b) Hardwired control
c) micro programmed control d) computer instructions

6 A sequence of micro instructions constitutes a_____
a) Micro Operation b) Micro Instruction
c) Micro Program d) Control memory

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Show how to add 150_{10} and 85_{10} with unsigned 8 bit numbers. **[OR]**
b)Draw circuit for Half adder and Explain it.

8. a) What is the difference between a direct and indirect address instruction?
[OR]
b) Describe about Instruction cycle.

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. Convert the following sign magnitude numbers into decimal equivalents
a)00110110 b)10100001
c)11111000 d)1000110001110101

10. Explain in details about Micro Programmed Control

Reg. No: | | | | | | | | |

G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]
INTERNAL ASSESSMENT TEST – II

Class : **II B.C.A.** Date : **25-10-17**
Paper Code : **SCAGA31** Time : **12- 1 pm**
Title of the Paper : **Digital Principles and Computer Programming** Max Marks : **30**

Section A [6 x 1 = 6]

[Answer **ALL** the questions]

1 Subtract the following : 01001111- 00000101
a) 01001010 b) 10101010
c) 01001100 d)101101010

2 What is the 2's complement representation of 11010110?
a) 00101001 b) 00101001
c)11110110 d)01101001

3 A logic circuit with three inputs and two outputs is _____
a) Full adder b) Half adder
c) Look ahead carry d) Parallel adder

4 The instruction read from memory is placed in the _____
a)AR b) AC
c)IR d) TR

5 _____ the control logic is implemented with gates, flip flops, decoder and other circuits.
a) Multiplexer b) Hardwired control
c) micro programmed control d) computer instructions

6 A sequence of micro instructions constitutes a_____
a) Micro Operation b) Micro Instruction
c) Micro Program d) Control memory

Section B [2 x 7 = 14]

[Answer **ALL** the questions]

7. a) Show how to add 150_{10} and 85_{10} with unsigned 8 bit numbers. **[OR]**
b)Draw circuit for Half adder and Explain it.

8. a) What is the difference between a direct and indirect address instruction?
[OR]
b) Describe about Instruction cycle.

Section C [1 x 10 = 10]

[Answer **ANY ONE** question]

9. Convert the following sign magnitude numbers into decimal equivalents
a)00110110 b)10100001
c)11111000 d)1000110001110101

10. Explain in details about Micro Programmed Control