



B.O.S – 2017 -18

(With effect from 2016-17 in accordance with CBCS)



DEPARTMENT OF COMPUTER SCIENCE
GIRRAJ GOVERNMENT COLLEGE (Autonomous)

College with Potential for Excellence

Nizamabad – 503001

Board of Studies
Dept. of Computer Science
Girraj Govt. College,
NIZAMABAD

PROCEEDINGS OF THE PRINCIPAL, GIRRAJ GOVT. COLLEGE (A)
Present: Sri P.Ram Mohan Reddy, M.Sc., M. Phil.,

Lr. No. / GGC-Nzb. / Comp. Sc / BOS – 17 -18 / dated 24-08-2017


Sub.: Constitution Board of Studies Members for the Dept. of Computer Science - Girraj Govt. College (A), Nizamabad.

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The following persons from the Telangana University, Girraj Govt. College, and outside Colleges are included as members for the Board of Studies in the Department of Computer Science, Girraj Govt. College, Nizamabad. The constitution of the BOS members will effect from this academic year and will be in effect till two academic years.

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4. **Sri. V. Subhash** Lecturer & Head Dept. of Computer Science,
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4. All Members, Dept. of Comp. Sc.

DEPARTMENT OF COMPUTER SCIENCE
GIRRAJ GOVERNMENT COLLEGE (Autonomous)
(College with Potential for Excellence)

Proposed Scheme for B.Sc. Computer Science under Choice Based Credit System.

Code	Course Title	Sem. Name	HPW	Credits
Theory Sessions (70 Marks)				
I Year				
BS101	Programming in C	Semester-I	4T+2P=6	4+1=5
BS102	Programming in C++	Semester-II	4T+2P=6	4+1=5
II Year				
BS203	Programming in Java	Semester-III	4T+2P=6	4+1=5
BS204	Programming in Java with D.S.	Semester-IV	4T+2P=6	4+1=5
III Year				
BS305(a)	Graph Theory	Semester-V	2	2
	Computer Organization & Assembly Language (COAL)		2	2
Modern Data Base Management System	3T+2P=5		3+1=4	
BS305(b)	Elective-A Operating System		3T+2P=5	3+1=4
	Elective-B Software Engineering		3T+2P=5	3+1=4
III Year				
BS306(a)	Graph Theory-2	Semester-VI	2	2
	Numerical Computing		2	2
Computer Networks - <u>V</u>	3T+2P=5		3+1=4	
BS307(b)	Elective-A: PHP with MySQL		3T+2P=5	3+1=4
	Elective-B: Web Technologies - <u>VIII</u>		3T+2P=5	3+1=4
Practical Lab Sessions (50 Marks)				
I Year	Programming in C	Semester-I	3	50
	Programming in C++	Semester-II	3	50
II Year	Programming in Java	Semester-III	3	50
	Prog. in Java with data structure	Semester-IV	3	50
III Year (Paper-III)	Major project-I	Semester-V	3	50
			3	50
			3	50
III Year (Paper-IV)	Major Project-II	Semester-VI	3	50
			3	50
			3	50
Internal Assessment (5+5+20=30)				
I Year	Internal Assessment (I & II)	Semester-I		20+5+5=30
	Internal Assessment (I & II)	Semester-II		20+5+5=30
II Year	Internal Assessment (I & II)	Semester-III		20+5+5=30
	Internal Assessment (I & II)	Semester-IV		20+5+5=30
III Year	Project Work	Semester-V		Grades(ABC)
	Project Work	Semester-VI		Grades(ABC)

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SYLLABUS FOR COMPUTER SCIENCE

Proposed scheme for B.Sc. MPCs & MSCs

(Choice Based Credit System - CBCS)

With effect from 2016-17

Semester No. & Course Code	Course Title	Hours per Week	Credits
Semester - I BSC 106	Fundamentals of Computers Programming in C	4T+2P = 64	4 + 1 = 05
Semester - II BSC 206	Programming in C++	4T+2P = 64	4 + 1 = 05
Semester - III BSC 306	Data Structures with C++	4T+2P = 64	4 + 1 = 05
Semester - IV BSC 406	Database Management Systems	4T+2P = 64	4 + 1 = 05
Semester - IV BSC 506	Programming in Java	3T + 2P = 53	3 + 1 = 04
	Elective - A Operating System	3T + 2P = 53	3 + 1 = 04
	Elective - B Software Engineering	3T + 2P = 53	3 + 1 = 04
Semester - IV BSC 606	Computer Networks	3T + 2P = 53	3 + 1 = 04
	Elective - A: PHP with My-SQL	3T + 2P = 53	3 + 1 = 04
	Elective - B: Web Technologies	3T + 2P = 53	3 + 1 = 04

The above Syllabus will come into effect from the academic Year 2016-17 as:


2016 - 17: B.Sc. First Year MPCs & MSCs, Approval.

2017 - 18: B.Sc. Second Year MPCs & MSCs, Approval.

2018 - 19: B.Sc. Third Year MPCs & MSCs, Approval.



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DEPARTMENT OF COMPUTER SCIENCE
Girraj Govt. College (Autonomous)
B. Sc. I Year I Semester Syllabus
(Fundamentals of Computers and C Programming)

Max. Marks: 70 (Theory)
 Internal Assessment: 30

Unit - I**Chapter 1 Fundamentals of Programming Language:**

History of C Language, C Tokens, Constants, Variables, Data Types, Standard input and output functions, Structure C program, Sample program, operators in C language and Type conversion.

Chapter 2 Control Structures:

Introduction to C Control structures, conditional statements: Simple if, ifelse, if-else-if-else ladder, switch statement, nested switch, unconditional statements: goto, break and continue statements Loops: loops (Iterative statements): while loop, do-while loop, for loop, Nested Loops etc.,

Unit - II**Chapter 3 Array:**

Introduction to arrays, Advantages and disadvantages of arrays. Single Dimensional array, programs on single dimensional array, Bubble sort, Linear search, etc., Strings: String handling functions, character handling functions. Two Dimensional array.

Chapter 4 Functions:

Introduction to functions, Library functions, user defined functions, types of functions, function prototyping, Nested and recursive functions. Pointers: Use of pointers. Pass by Value and Pass by Reference.

Unit - III**Chapter 5 Structures:**

Introduction to structures, arrays in structures, pointers to structures. Nested structure, Array of Structure, passing structure object in functions: use of Pass by Values and Pass by reference.

Chapter 6 Unions:

Unions: declaration and use of unions, difference between structure and unions. Pre processor directives: Macros, typedef.

Unit -IV**Chapter 7 Enumerated Data types Storage classes**

Enumerated data types, storage classes: static storage class, automatic storage class, register storage class and external storage class. Global and Local Variable declaration.

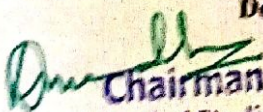
Chapter 8 Files

Files introduction to files using file handling functions: Creating a file, reading a file, Copying a file, deleting a file. Random Access to the file.

Prescribed Books:

1. ANSI C by E Balugur Swamy
2. Let us C by Yashwanth Kanithakar


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DEPARTMENT OF COMPUTER SCIENCE

Girraj Govt. College (Autonomous)

B. Sc. I Year I Semester (w.e.f. 2016-2017)

MODEL PAPER**Subject : Fundamentals of Computers and C Programming**

Max. Marks: 70 (Theory)

SECTION – A**Answer All Questions****4 X 2.5 = 10**

- Q.1 Unit-I
 Q.2 Unit-II
 Q.3 Unit-III
 Q.4 Unit-IV

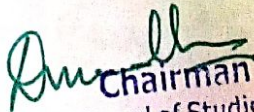
SECTION – B**Answer All the Questions (Internal choice)****4 X 5 = 20**

- Q.5 a) Unit-I
 OR
 b) Unit-I
 Q.6 a) Unit-II
 OR
 b) Unit-II
 Q.7 a) Unit-III
 OR
 b) Unit-III
 Q.8 a) Unit-IV
 OR
 b) Unit-IV

SECTION – C**Answer all Questions (Internal Choice)****4 X 10 = 40**

- Q.9 (a). Unit-I
 OR
 (b) Unit-I
 Q.10 (a). Unit-II
 OR
 (b) Unit-II
 Q.11 (a). Unit-III
 OR
 (b) Unit-III
 Q.12 (a). Unit-IV
 OR
 (b) Unit-IV


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**DEPARTMENT OF COMPUTER SCIENCE,
Girraj Govt. College (Autonomous)
B. Sc. I Year II Semester Syllabus
(Object Oriented Programming with C++)**

*Max. Marks: 75 (Theory)
Internal Assessment: 10*

Unit - I

Chapter 1 Introduction to OOPs:

Basic Concepts of OOPs: Abstraction, Encapsulation, Polymorphism and inheritance. Classes, objects, difference between C and C++, Benefits of C++, Applications of C++ & Limit of procedure oriented programming. Object Oriented programming Paradigm.

Chapter 2 Introduction to C++:

A Simple C++ Program using input-output streams, Structure of C++ program, an example with class, Tokens of C++: Keywords, Identifiers (Variables), Constants, Basic Data types, Primitive data types, Derived data types and user defined data types, Operators. Example programs on basic types with the use of operators, Type casting.

Unit - II

Chapter 3 Arrays:

Introduction to arrays, types of arrays, use of arrays in C++, programs on arrays using One Dimension: Sorting-Bubble Sort, Searching, Linear Search, Two Dimensional Arrays: Traversal of matrix, Matrix addition & Matrix Multiplication.

Chapter 4 Functions and Classes:

The main function. Function prototype, Pass by Value, Pass by reference & Call by reference. Introduction to classes, creating classes, creating objects, using functions, inline functions, friend function, recursive function, constructors: Default constructor, Overloaded constructor, Parameterised Constructor, Copy constructor, destructors. new, delete operators

Unit - III

Chapter 4 Inheritance:

Introduction to Inheritance: Extending classes, Example of Inheritance, Types of Inheritance: Single, Multiple, Multi level, Hierarchical and Hybrid Inheritance, Abstract classes, Virtual Base class.

Chapter 5 Polymorphism:

Introduction to Polymorphism, Definition of polymorphism, Types of Polymorphism: Compile Time Polymorphism (Static binding, static linking, early binding) - Overloading of function, overloading operators, Run Time Polymorphism (Dynamic Binding, Dynamic Linking & Late binding) using Virtual function,

Unit - IV

Chapter 7 Exceptions:

Introduction to Exceptions, Exceptional handling in C++, use of try, catch and Throw keywords. new, delete operators

Chapter 8 Files and Streams:

Introduction to Files, Creating file using I/O Streams, reading file. Writing objects into file, reading object from File, Random Access to the File.

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DEPARTMENT OF COMPUTER SCIENCE

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B. Sc. I Year II Semester

MODEL PAPER

(OOPS With C++ Programming)

Max. Marks: 70 (Theory)

SECTION - A

Answer All Questions

4 X 2.5 = 10

- 1.
- 2.
- 3.
- 4.

SECTION - B

Answer All Questions

4 X 5 = 20

- 5 (a).
OR
(b)
- 6 (a).
OR
(b)
- 7 (a).
OR
(b)
- 8 (a).
OR
(b)

SECTION - C

Answer All Questions

4 X 10 = 40

- 5 (a).
OR
(b)
- 6 (a).
OR
(b)
- 7 (a).
OR
(b)
- 8 (a).
OR
(b)

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DEPARTMENT OF COMPUTER SCIENCE
Girraj Govt. College (Autonomous)
B. Sc. I Year II Semester
INTERNAL ASSESMENT
(OOPs with C++ Programming)

Max. Marks: (20+10)

The 30 marks internal assessment is divided into two segments as follows

Segment - I Internal Exam (20 Marks)

(Each semester two internal exams are conducted and average of two is considered)

Segment - II Seminar and Assignments (5 + 5 = 10 Marks)

Segment - I Internal Exam Paper Pattern:

SECTION - A : Multiple Choice Questions 5 X 1=5

Q.1

Q.2

Q.3

Q.4

Q.5

SECTION - B : Fill in the Blanks 5 X 1 =5

Q.1

Q.2

Q.3

Q.4

Q.5

SECTION - C : Match the Following 5 X 1=5

Q.1

Q.2

Q.3

Q.4

Q.5

SECTION - D : One word Answers 5 X 1=5

Q.1

Q.2

Q.3

Q.4

Q.5

Segment - II:

a) Seminars


1 X 5=5


(Every student has to present a seminar and submit a hard copy of the same to the dept.)

b) Assignments

1 X 5=5

(Every student has to prepare assignment and submit to the lecturer concerned)


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DEPARTMENT OF COMPUTER SCIENCE

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B. Sc. I Year I Semester (w.e.f. 2016-17)

INTERNAL ASSESSMENT (Model Paper)

Subject: Fundamental of Computers & C Programming

Max. Marks: 30

SECTION - A

Multiple Choice Questions 5 X1=5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION - B

Fill in the Blanks 5 X1 =5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION - C

Match the Following 5 X1=5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION - D

One word Answers 5 X1=5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION - E

Seminars 1 X5=5

SECTION - E

Assignments 1 X5=5

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DEPARTMENT OF COMPUTER SCIENCE
Girraj Govt. College (Autonomous)
B. Sc. I Year (I & II Semester)
PRACTICAL EXAM MODEL

Semester – I : C Programming 50 Marks
 (To be conducted at end of the semester) Max. Marks: 50 (Theory)

Semester - II : C++ Programming 50 Marks
 (To be conducted at end of the semester)

Exam Pattern:

SECTION – A

Answer All Questions 2 X 10 = 20

- 1.
- 2.

SECTION – B

VIVA 10 X 2 = 20

SECTION – C

RECORD BOOK 10

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DEPARTMENT OF COMPUTER SCIENCE
Girraj Govt. College (Autonomous)
B. Sc. II Year III Semester Syllabus
(Data structures with C++)

Max. Marks: 70 (Theory)
 Internal Assessment: 30

Theory	4 Hours/Week	4 credits
Practical	2 Hours/Week	1 credit

Unit – I

Fundamental Concepts: Introduction to Data Structures, Types of Data Structures, Introduction to Algorithm, Pseudo-code, Flow Chart, Analysis of Algorithms.

Linear Data Structure Using Arrays: 1-D Arrays, 2-D Arrays, N-D Arrays, (Memory Representation and Address Calculation of 1-D, 2-D, N-D Arrays), (String Manipulation, Pros) and Cons of Arrays.

Stacks: Concept, Primitive Operations, Abstract Data Type, Representation Stacks Using Arrays, Prefix, Infix, Postfix Notations for Arithmetic Expression, Applications of Stacks– Converting Infix Expression to Postfix Expression, Evaluating the Postfix Expression, (Checking Well-formed (Nested) Parenthesis) Processing of Function Calls, Reversing a String.

Unit – II

Recursion: Introduction, Recurrence, Use of Stack in Recursion, Variants of Recursion, Execution of Recursive Calls, Recursive Functions, Iteration versus Recursion.

Queues: Concept, Primitive Operations, Abstract Data Type, Representation Queues Using Arrays, Circular Queue, Double-Ended Queue, Applications of Queues.

Linked Lists: Introduction, Concept, Terminology, Primitive Operations-creating, inserting, deleting, traversing, Representation of Linked Lists, Linked List Abstract Data Type, Linked List Variants – Singly Linked List, Doubly Linked List, Linear and Circular Linked List. Application of Linked List (Garbage Collection.)

Unit – III

Trees: Introduction, Representation of a General Tree, Binary Tree Introduction, Binary Tree Abstract Data Type, Implementation of Binary Trees, Binary Tree Traversals – Preorder, Inorder, Postorder Traversals, Applications of Binary Trees Briefly.

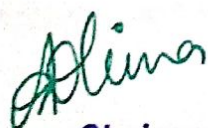
Graphs: Introduction, Graph Abstract Data Type, Representation of Graphs, Graph Traversal – Depth-First Search, Breadth-First Search, Spanning Tree

Unit – IV

Searching and Sorting: Sequential (Linear) Search, Binary Search, Bubble Sort, Insertion Sort, Selection Sort, Quick Sort, Merge Sort, and Comparison of Sorting Techniques.

Text Books:

- 1) H. Patil, Data Structures Using C++ References Nell Dale,
- 2) C++ Plus Data Structures Seymour Lipschutz, Data Structures (Revised 1e)
- 3) Adam Drozdek, Data Structures and Algorithms in C++
- 4) Mark Allen Weiss, Data structures and Algorithm Analysis in C++ (4e)
- 5) D.S. Malik, C++ Programming: Program Design Including Data Structures (6e)



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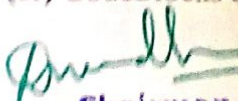
DEPARTMENT OF COMPUTER SCIENCE
Girraj Govt. College (Autonomous)
B. Sc. II Year III Semester Syllabus
(Data structures with C++)

Practical 2 Hours/Week 1 credit

- 1 Write programs to implement the following using an array: a) Stack ADT b) Queue ADT.
- 2 Write a program to convert the given infix expression to postfix expression using stack.
- 3 Write a program to evaluate a postfix expression using stack.
- 4 Write a program to ensure the parentheses are nested correctly in an arithmetic expression.
- 5 Write a program to find following using Recursion a) Factorial of +ve Integer b) nth term of the Fibonacci Sequence c) GCD of two +ve integers.
- 6 Write a program to create a single linked list and write functions to implement the following operations.
 - a) Insert an element at a specified position
 - b) Delete a specified element in the list
 - c) Search for an element and find its position in the list
 - d) Sort the elements in the list ascending order
- 7 Write a program to create a double linked list and write functions to implement the following operations.
 - a) Insert an element at a specified position
 - b) Delete a specified element in the list
 - c) Search for an element and find its position in the list
 - d) Sort the elements in the list ascending order
- 8 Write a program to create singular circular linked lists and function to implement the following operations.
 - a) Insert an element at a specified position
 - b) Delete a specified element in the list
 - c) Search for an element and find its position in the list
- 9 Write programs to implement the following using a single linked list: a) Stack ADT b) Queue ADT.
- 10 Write a program to implement Binary search technique using Iterative method and Recursive methods.
- 11 Write a program for sorting the given list numbers in ascending order using the following technique: Bubble sort and Selection sort
- 12 Write a program for sorting the given list numbers in ascending order using the following technique: Insertion sort and Quick sort
- 13 Write a program for sorting the given list numbers in ascending order using the following technique: Merge sort and Heap sort
- 14 Write a program to traverse a binary tree in following way.
 - a) Pre-order b) In-order c) Post-order
- 15 Write a program to the implementation graph traversals – BFS and DFS.
- 16 Write a program to find the minimum spanning tree for a weighted graph using
 - a) Prim's Algorithm b) Kruskal's Algorithm.

Note: Write the Pseudo Code for the above programs. Recommended to use Open Source Software such as GCC on Linux; DevC++ (or) CodeBlocks on Windows.


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DEPARTMENT OF COMPUTER SCIENCE
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B. Sc. II Year III Semester
MODEL PAPER
(Data structures with Java C++)

Max. Marks: 70 (Theory)

SECTION – A

Answer All Questions
(Compulsory one question from each unit)

4 X 2.5 = 10

- Q.1 Unit-I
 Q.2 Unit-II
 Q.3 Unit-III
 Q.4 Unit-IV

SECTION – B

Answer Any Four Questions
(Compulsory TWO question from each unit open choice questions)

4 X 5 = 20

- Q.5 Unit-I
 Q.6 Unit-I
 Q.7 Unit-II
 Q.8 Unit-II
 Q.9 Unit-III
 Q.10 Unit-III
 Q.11 Unit-IV
 Q.12 Unit-IV

SECTION – C

Answer all Questions (Internal Choice)
(Compulsory TWO question from each unit internal choice question)

4 X 10 = 40

- | | | |
|--------------------|----|--------------|
| Q.13 (a). Unit-I | OR | (b) Unit-I |
| Q.14 (a). Unit-II | OR | (b) Unit-II |
| Q.15 (a). Unit-III | OR | (b) Unit-III |
| Q.16 (a). Unit-IV | OR | (b) Unit-IV |

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DEPARTMENT OF COMPUTER SCIENCE

Girraj Govt. College (Autonomous)

B. Sc. II Year IV Semester

INTERNAL ASSESMENT

(Data Structures with C++)

Max. Marks: (20+10)

The 30 marks internal assessment is divided into two segments as follows

Segment – I Internal Exam (20 Marks)

(Each semester two internal exams are conducted and average of two is considered)

Segment – II Seminar and Assignments (5 + 5 = 10 Marks)

Segment – I Internal Exam Paper Pattern:

SECTION – A : Multiple Choice Questions

5 X1=5

Q.1

Q.2

Q.3

Q.4

Q.5

SECTION – B : Fill in the Blanks

5 X1 =5

Q.1

Q.2

Q.3

Q.4

Q.5

SECTION – C : Match the Following

5 X1=5

Q.1

Q.2

Q.3

Q.4

Q.5

SECTION – D : One word Answers

5 X1=5

Q.1

Q.2

Q.3

Q.4

Q.5

Segment – II:

a) Seminars

1 X5=5

(Every student has to present a seminar and submit a hard copy of the same to the dept.)

b) Assignments

1 X5=5

(Every student has to prepare assignment and submit to the lecturer concerned)



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DEPARTMENT OF COMPUTER SCIENCE

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B. Sc. II Year IV Semester Syllabus

(Database Management System)

Max. Marks: 70 (Theory)

Internal Assessment: 30

Theory	4 Hours/Week	4 credits
Practical	2 Hours/Week	1 credit

Unit - I

Introduction to Databases: Introduction, Traditional File-Based Systems, Database Approach, Roles in the Database Environment, Advantages and Disadvantages of DBMSs, The Three-Level ANSI-SPARC Architecture, Database Languages, Data Models, Functions of a DBMS, Components of a DBMS.

Relational Model: Introduction, Terminology, Integrity Constraints, Views. The Relational Algebra: Unary Operations, Set Operations, Join Operations, Division Operation, Aggregation and Grouping Operations.

Unit - II

SQL: Introduction, Data Manipulation—Simple Queries, Sorting Results, Using the SQL Aggregate Functions, Grouping Results, Sub-queries, ANY and ALL, Multi-table Queries, Combining Result Tables, Database Updates.

SQL: The ISO SQL Data Types, Integrity Enhancement Feature—Domain Constraints, Entity Integrity, Referential Integrity, General Constraints, Data Definition—Creating a Database, Creating a Table, Changing a Table Definition, Removing a Table, Creating an Index, Removing an Index, Views—Creating a View, Removing a View, View Resolution, Restrictions on Views, View Updatability, WITH CHECK OPTION, Advantages and Disadvantages of Views, View Materialization, Transactions, Discretionary Access Control—Granting Privileges to Other Users, Revoking Privileges from Users.

Advanced SQL: The SQL Programming Language—Declarations, Assignments, Control Statements, Exceptions, Cursors, Subprograms, Stored Procedures, Functions, Triggers, Recursion

Unit - III

Entity-Relationship Modelling: Entity Types, Relationship Types, Attributes, Keys, Strong and Weak Entity Types, Attributes on Relationships, Structural Constraints, Problems with ER Models. Enhanced Entity-Relationship Modeling: Specialization/Generalization, Aggregation, Composition.

Functional-Dependencies: Anomalies, Partial Functional Dependency, Transitive Functional Dependency, Multi Valued Dependency, Join Dependency. Normalization: The Purpose of Normalization, How Normalization Supports Database Design, Data Redundancy and Update Anomalies, Functional Dependencies in brief, The Process of Normalization, 1NF, 2NF, 3NF, BCNF. The Database Design Methodology for Relational Databases

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Unit – IV

Transaction Management: Transaction Support–Properties of Transactions, Database Architecture, Concurrency Control–The Need for Concurrency Control, Serializability and Recoverability, Locking Methods, Deadlock, Time Stamping Methods, Multi-version Timestamp Ordering, Optimistic Techniques, Granularity of Data Items, Database Recovery–The Need for Recovery, Transactions and Recovery, Recovery Facilities, Recovery Techniques, Nested Transaction Model.

Security: Database Security–Threats, Computer-Based Controls–Authorization, Access Controls, Views, Backup and Recovery, Integrity, Encryption, RAID.

Prescribed Books:

Thomas M. Connolly, Carolyn E. Begg, Database Systems–A Practical Approach to Design, Implementation, and Management (6e)

References:

Sharon Allen, Evan Terry, Beginning Relational Data Modeling

Jeffrey A. Hoffer, V. Ramesh, Heikki Topi, Modern Database Management

Raghu Ramakrishnan, Johannes Gehrke, Database Management Systems

Ramez Elmasri, Shamkant B. Navathe, Fundamentals of Database Systems



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DEPARTMENT OF COMPUTER SCIENCE

Girraj Govt. College (Autonomous)

B. Sc. II Year IV Semester

MODEL PAPER**(Paper-IV: Database Management System)**

Max. Marks: 70 (Theory)

SECTION - A

Answer All Questions

4 X 5 = 10

(Compulsory one question from each unit)

- Q.1 Unit-I
 Q.2 Unit-II
 Q.3 Unit-III
 Q.4 Unit-IV

SECTION - B

Answer Any Four Questions

4 X 5 = 20

(Compulsory TWO question from each unit open choice questions)

- Q.5 Unit-I
 Q.6 Unit-I
 Q.7 Unit-II
 Q.8 Unit-II
 Q.9 Unit-III
 Q.10 Unit-III
 Q.11 Unit-IV
 Q.12 Unit-IV

SECTION - C

Answer all Questions (Internal Choice)

4 X 10 = 40

(Compulsory TWO question from each unit internal choice question)

- | | | |
|--------------------|----|--------------|
| Q.13 (a). Unit-I | OR | (b) Unit-I |
| Q.14 (a). Unit-II | OR | (b) Unit-II |
| Q.15 (a). Unit-III | OR | (b) Unit-III |
| Q.16 (a). Unit-IV | OR | (b) Unit-IV |

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DEPARTMENT OF COMPUTER SCIENCE
Girraj Govt. College (Autonomous)
B. Sc. II Year IV Semester
INTERNAL ASSESMENT (Structure)
(Paper-IV Database Management System)

Max. Marks: (20+10)

The 30 marks internal assessment is divided into two segments as follows

Segment – I Internal Exam (20 Marks)

(Each semester two internal exams are conducted and average of two is considered)

Segment – II Seminar and Assignments (5 + 5 = 10 Marks)

Segment – I Internal Exam Paper Pattern:

SECTION – A : Multiple Choice Questions 5 X1=5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION – B : Fill in the Blanks 5 X1 =5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION – C : Match the Following 5 X1=5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION – D : One word Answers 5 X1=5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

Segment – II:

a) Seminars

1 X5=5

(Every student has to present a seminar and submit a hard copy of the same to the dept.)

b) Assignments

1 X5=5

(Every student has to prepare assignment and submit to the lecturer concerned)

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DEPARTMENT OF COMPUTER SCIENCE
Girraj Govt. College (Autonomous)
B. Sc. II Year
ANNUAL PROJECTS

The students at the end of the second year (IV Semester) has to complete a Project work (Mini - Project). The students can use tools and technologies studied during second year or either from I Year. However the project work can be accomplished individually or in group of four members shall be decided by board members at the time of Board of studies meeting. The students after the successful completion of the project work will be awarded with Grades and credits

Project Work (Mini Project) Guideline:

- a) The project should be carried out in a team of four members.
- b) The provisional selection of the project work will be done by the department and the lecturer concerned.
- c) Every student team should submit the following details regarding the project
 - i) Title of the Project
 - ii) Abstract of the project
 - iii) Scope of the project
 - iv) Tools & Technologies used
 - v) Applications & Use of the project
- d) After the provisional selection of the project the department will assign a guide to the student and allow the student to carry out the project work in the department.
- e) The student should complete the project as per Guide's directions and submit the copy in duplicate to the department.

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DEPARTMENT OF COMPUTER SCIENCE
Girraj Govt. College (Autonomous)
B. Sc. III Year V Semester Syllabus
(Paper-V Modern Data Base Management System)

Max. Marks: 70 (Theory)

Internal Assessment: 30

UNIT – I

Chapter 1: Database System: Introducing the database and DBMS. File Processing System: Disadvantages of file processing system, Data Management System, advantages of DBMS, Components of DBMS, Components of database environment, DBA, functions of DBA.

Chapter 2: The importance of Data Models. Basic building blocks of data models, business rules, the evaluation of Data models, Data abstraction and Degree of Data abstraction.

Unit – II

Chapter 3 – The relational database Model: Characteristics of Relational table, keys, integrity rules, relation set operators, The Data dictionary and the System catalog, relationships within a relationship. Indexes, Codd's relational database rules.

Chapter – 4 E- R Model: The ER Model, Entity: Entity types: Strong Entity, Weak Entity, Associative Entity. Attributes. Types of Attributes: Single & Multi Valued Attributes. Basic & Derived attributes. Simple & Composite Attributes. Developing ER Diagrams. Degree of relationship, cardinality constraints, Developing of ER diagrams,

Unit – III

Chapter – 5 Advanced Data Modeling: The Extended Entity Relationship Model, Specialization and Generalization. Entity Clustering. Defining and operational constraints.

Chapter – 6 Normalization: Normalization of database tables, The Normalization Process: 1NF, 2NF, 3NF, Boyce Codd Normal Form, 4NF and 5NF. De-Normalization.

Unit – IV

Chapter – 7: Introduction to SQL: Data types of SQL, DDL, DML, TCL & DCL. Select queries, Column constraints, Order by, group by, having and Where clauses. Types of joins Database Tables.

Chapter – 8 Advance SQL: Relation Set Operators, Nested Queries, sub queries, SQL Functions: Single row functions and grouped functions, working with is operator, in operator. Views, Indexes, Clusters and Oracle Sequences.

Prescribed Text Book:

1. Peter Rob, Carlos – Database System Design, Implementation & Management Seventh Edition (Thomsons Edition 2007)

Alina

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DEPARTMENT OF COMPUTER SCIENCE,
Girraj Govt. College (Autonomous)
B. Sc. III Year V Semester
MODEL PAPER

(Paper-V Modern Data Base Management System)

Max. Marks: 70 (Theory)

SECTION - A

Answer All Questions

4 X 5 = 20

(Compulsory one question from each unit)

- Q.1 Unit-I
- Q.2 Unit-II
- Q.3 Unit-III
- Q.4 Unit-IV

SECTION - B

Answer Any Four Questions

4 X 5 = 20

(Compulsory TWO question from each unit open choice questions)

- Q.5 Unit-I
- Q.6 Unit-I
- Q.7 Unit-II
- Q.8 Unit-II
- Q.9 Unit-III
- Q.10 Unit-III
- Q.11 Unit-IV
- Q.12 Unit-IV

SECTION - C


Answer all Questions (Internal Choice)

4 X 10 = 40

(Compulsory TWO question from each unit internal choice question)

- Q.13 (a). Unit-I OR (b) Unit-I
- Q.14 (a). Unit-II OR (b) Unit-II
- Q.15 (a). Unit-III OR (b) Unit-III
- Q.16 (a). Unit-IV OR (b) Unit-IV


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DEPARTMENT OF COMPUTER SCIENCE
Girraj Govt. College (Autonomous)
B. Sc. III Year VI Semester Syllabus
(Paper-VII Modern Data Base Management System)

Max. Marks: 70 (Theory)
Internal Assessment: 30

UNIT – I

Chapter 1 – Database Design: The Information System, System Development Life Cycle (SDLC), The Database Development Life Cycle (DDLC), Database Design strategies, Centralized Vs Decentralized design.

Chapter 2 – Transaction Management & Concurrency Control: What is transaction, database Transaction properties. What is Concurrency control, Concurrency control with Locking Methods, Concurrency control with Time stamping methods, Concurrency control with optimistic methods, Database recovery management.

Unit – II

Chapter – 3 Distributed Database management System: The evolution of Distributed database management System, DDBMS advantages and Disadvantages of distributed database Management system

Chapter – 4: Distributed Data Processing: Distribution processing and distribution databases, Characteristics of Distributed Database Management System, DDBMS Components.

Unit – III

Chapter – 5 Advance DDBMS: Levels of data and Process Distribution, Distributed database transparency Features, Distributed transparency, Transaction transparency, and performance Transparency and Query optimization

Chapter – 6 Distributed Database Design: Designing the distributed database system: Data fragmentation, Data Replication, Data Allocation. Client Server Vs DDBMS.

Unit – IV

Chapter – 7 Data Ware Housing: The need for data analysis, Decision support System(DSS), and The Data ware House, Online analytical processing(OLAP), Star Schemas, Data Mining, SQL extension for OLAP. Database Administration: Data as a corporate asset, the need for role of database in an organization, The evolution of the database administration function, the database environment's Human Component.

Chapter 8 Database administration tools: The DBA and DBM, the DBA at work: using Oracle for database administration.

Introduction to PL/SQL, Structure of PL/SQL, Simple program, Conditional statements, Loops and Exception Handling: User defined and predefined. Cursors, stored procedures, stored functions and triggers.

Prescribed Text Book:

1. Peter Rob, Carlos – Database System Design, Implementation & Management Seventh Edition (Thomsons Edition 2007)

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DEPARTMENT OF COMPUTER SCIENCE
Girraj Govt. College (Autonomous)
B. Sc. III Year VI Semester
MODEL PAPER

(Paper-VII Modern Data Base Management System)

Max. Marks: 70 (Theory)

SECTION – A

Answer All Questions

4 X 2.5 = 10

(Compulsory one question from each unit)

- Q.1 Unit-I
 Q.2 Unit-II
 Q.3 Unit-III
 Q.4 Unit-IV

SECTION – B

Answer Any Four Questions

4 X 5 = 20

(Compulsory TWO question from each unit open choice questions)

- Q.5 Unit-I
 Q.6 Unit-I
 Q.7 Unit-II
 Q.8 Unit-II
 Q.9 Unit-III
 Q.10 Unit-III
 Q.11 Unit-IV
 Q.12 Unit-IV

SECTION – C

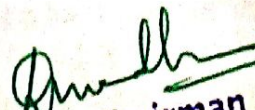
Answer all Questions (Internal Choice)

4 X 10 = 40

(Compulsory TWO question from each unit internal choice question)

- | | | |
|--------------------|----|--------------|
| Q.13 (a). Unit-I | OR | (b) Unit-I |
| Q.14 (a). Unit-II | OR | (b) Unit-II |
| Q.15 (a). Unit-III | OR | (b) Unit-III |
| Q.16 (a). Unit-IV | OR | (b) Unit-IV |


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DEPARTMENT OF COMPUTER SCIENCE
Girraj Govt. College (Autonomous)
B. Sc. III Year VI Semester
INTERNAL ASSESSMENT
(Paper-VII Modern Data Base Management System)

Max. Marks: (20+10)

The 30 marks internal assessment is divided into two segments as follows

Segment – I Internal Exam (20 Marks)

(Each semester two internal exams are conducted and average of two is considered)

Segment – II Seminar and Assignments (5 + 5 = 10 Marks)

Segment – I Internal Exam Paper Pattern:

SECTION – A : Multiple Choice Questions 5 X 1=5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION – B : Fill in the Blanks 5 X 1 =5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION – C : Match the Following 5 X 1=5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION – D : One word Answers 5 X 1=5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

Segment – II:

a) Seminars

(Every student has to present a seminar and submit a hard copy of the same to the dept.)

1 X 5=5

b) Assignments

(Every student has to prepare assignment and submit to the lecturer concerned)

1 X 5=5

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DEPARTMENT OF COMPUTER SCIENCE

Girraj Govt. College (Autonomous)

B. Sc. III Year V Semester Syllabus

Elective – I: (Paper –VI (A): Web Technologies)

Max. Marks: 70 (Theory)
Internal Assessment: 30 (20+10)

UNIT-1:

HTML Basics

Introduction: HTML, XML, and the World Wide Web.

HTML: Basic Structure HTML, Type of HTML tags, Formatting tags, Hyperlinks, img tags, Lists.

Tables, Using colors, Image Elements. .

UNIT-2 Advance HTML

Frames, Forms and its controls, XHTML – an evolutionary markup language.

Introduction to DHTML:

Cascading Style Sheets: Introduction, Using styles: Simple examples, Properties and values in styles. Defining your own styles (Class and Id in styles), Formatting blocks of information (Div and Span elements), Layers.

Event handling in DHTML: Mouse Events and Keyboard Events

UNIT-3: Introduction to Java Scripts

Introduction to JAVA Script:

The basic structure of JavaScript, Variables declaration, operators and control structures.

UNIT - IV

Introduction to arrays and Functions in java script: Array object, Types functions string manipulation functions, Mathematical functions and date functions

Prescribed Books:

1. Web Programming Chris Bates
2. Black Book HTML

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DEPARTMENT OF COMPUTER SCIENCE
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B. Sc. III Year V Semester
MODEL PAPER

Elective – I: (Paper –VI (A): Web Technologies)

Max. Marks: 70 (Theory)

SECTION – A

Answer All Questions

4 X 2.5 = 10

(Compulsory one question from each unit)

- Q.1 Unit-I
 Q.2 Unit-II
 Q.3 Unit-III
 Q.4 Unit-IV

SECTION – B

Answer Any Four Questions

4 X 5 = 20

(Compulsory TWO question from each unit open choice questions)

- Q.5 Unit-I
 Q.6 Unit-I
 Q.7 Unit-II
 Q.8 Unit-II
 Q.9 Unit-III
 Q.10 Unit-III
 Q.11 Unit-IV
 Q.12 Unit-IV

SECTION – C

Answer all Questions (Internal Choice)

4 X 10 = 40

(Compulsory TWO question from each unit internal choice question)

- | | | |
|--------------------|----|--------------|
| Q.13 (a). Unit-I | OR | (b) Unit-I |
| Q.14 (a). Unit-II | OR | (b) Unit-II |
| Q.15 (a). Unit-III | OR | (b) Unit-III |
| Q.16 (a). Unit-IV | OR | (b) Unit-IV |

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DEPARTMENT OF COMPUTER SCIENCE

Girraj Govt. College (Autonomous)

B. Sc. III Year V Semester

INTERNAL ASSESSMENT

Elective - I: (Paper - VI (A)): Web Technologies

Max. Marks: (20+10)

The 30 marks internal assessment is divided into two segments as follows

Segment - I Internal Exam (20 Marks)

(Each semester two internal exams are conducted and average of two is considered)

Segment - II Seminar and Assignments (5 + 5 = 10 Marks)

Segment - I Internal Exam Paper Pattern:

SECTION - A : Multiple Choice Questions **5 X1=5**

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION - B : Fill in the Blanks **5 X1=5**

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION - C : Match the Following **5 X1=5**

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION - D : One word Answers **5 X1=5**

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

Segment - II:

a) Seminars

1 X5=5

(Every student has to present a seminar and submit a hard copy of the same to the dept.)

b) Assignments

1 X5=5

(Every student has to prepare assignment and submit to the lecturer concerned)

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DEPARTMENT OF COMPUTER SCIENCE

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B. Sc. III Year VI Semester Syllabus

Elective – I (Paper –VIII(B): Web Technologies)

Max. Marks: 70 (Theory)

Internal Assessment: 30 (20+10)

UNIT-1

Chapter-I

Objects in Java Script:

Objects in Java Script, Regular expressions, Exception Handling, Built in objects.

Multimedia Objects:

Multimedia Objects, including Audio and video formats and Object element.

Chapter-II

DHTML with Java Script: Data validation, window object, Messages and Confirmations, The status bar, Rollover buttons, images, A text-only menu system, Floating logos.

UNIT-II

Chapter-I

ASP and XML: Active Server Pages, advantages, ASP Objects.

Chapter-II

XML: Basic structure of XML, Document type definition(DTD), XML schema, Document Object Model(XMLDOM).

UNIT-III

Chapter-I

Good Design Principles: Tables versus Frames, Internationalization.

Chapter-II

Useful Software's: Web browsers, Perl, Web servers, Mod_perl, Accessing your ISP

UNIT-IV

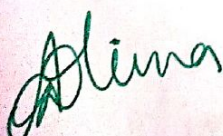
Chapter-I


Protocols: Protocols and types of Protocols, IP and TCP, TCP/IP, Hypertext Transfer Protocol(HTTP),

Chapter-II

Common Gateway Interface: CGI Structure of CGI and working of CGI.

Document Object Model: DOM Structure of Document Object Model with HTML.


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DEPARTMENT OF COMPUTER SCIENCE

Girraj Govt. College (Autonomous)

B. Sc. III Year V Semester

MODEL PAPER

Elective – I (Paper –VIII (B): Web Technologies)

SECTION – A

Max. Marks: 70 (Theory)

Answer All Questions

4 X 2.5 = 10

(Compulsory one question from each unit)

- Q.1 Unit-I
- Q.2 Unit-II
- Q.3 Unit-III
- Q.4 Unit-IV

SECTION – B

Answer Any Four Questions

4 X 5 = 20

(Compulsory TWO question from each unit open choice questions)

- Q.5 Unit-I
- Q.6 Unit-I
- Q.7 Unit-II
- Q.8 Unit-II
- Q.9 Unit-III
- Q.10 Unit-III
- Q.11 Unit-IV
- Q.12 Unit-IV

SECTION – C

Answer all Questions (Internal Choice)

4 X 10 = 40

(Compulsory TWO question from each unit internal choice question)

- | | | |
|--------------------|----|--------------|
| Q.13 (a). Unit-I | OR | (b) Unit-I |
| Q.14 (a). Unit-II | OR | (b) Unit-II |
| Q.15 (a). Unit-III | OR | (b) Unit-III |
| Q.16 (a). Unit-IV | OR | (b) Unit-IV |

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DEPARTMENT OF COMPUTER SCIENCE

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B. Sc. III Year V Semester

INTERNAL ASSESMENT

Elective – I (Paper –VIII(B): Web Technologies)

Max. Marks: (20+10)

The 30 marks internal assessment is divided into two segments as follows

Segment – I Internal Exam (20 Marks)

(Each semester two internal exams are conducted and average of two is considered)

Segment – II Seminar and Assignments (5 + 5 = 10 Marks)

Segment – I Internal Exam Paper Pattern:

SECTION – A : Multiple Choice Questions

5 X1=5

Q.1

Q.2

Q.3

Q.4

Q.5

SECTION – B : Fill in the Blanks

5 X1 =5

Q.1

Q.2

Q.3

Q.4

Q.5

SECTION – C : Match the Following

5 X1=5

Q.1

Q.2

Q.3

Q.4

Q.5

SECTION – D : One word Answers

5 X1=5

Q.1

Q.2

Q.3

Q.4

Q.5

Segment – II:

a) Seminars

(Every student has to present a seminar and submit a hard copy of the same to the dept.)

1 X5=5

b) Assignments

(Every student has to prepare assignment and submit to the lecturer concerned)

1 X5=5

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DEPARTMENT OF COMPUTER SCIENCE
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B. Sc. III Year V Semester
PRACTICAL QUESTIOB BANK
Elective – I (Paper –IV-A Web Technologies)


Max. Marks: (100)

1. Create HTML Page to test a) Headers b) Text formatting
2. Create HTML Page to test a) Linking Images b) Images Link
3. Create HTML code to demonstrate ordered list and unordered list
4. Create HTML code to demonstrate unordered list and definition list.
5. Create HTML code to demonstrate links with ordered list.
6. Create HTML code to demonstrate nested list.
7. Create HTML code to demonstrate table related tags (bg color)
8. Create a Web page to holding an image as hyperlink.
9. Write an HTML code display an image (V space and H space attribute)
10. Create HTML table using cell padding, cell spacing and caption
11. Create HTML Web page as following format (back ground image)

COURSES / GROUPS	
B.Sc.	B.Com
Sub 1	Sub 1
Sub 2	Sub 2
Sub 2	Sub 2

12. Create HTML code to demonstrate frames.
13. Create HTML code to demonstrate target frames.
14. Create HTML code to demonstrate forms.
15. Create HTML code to students registration form
16. Write a program to demonstrate external style sheet.
17. Write a program to demonstrate inline style sheets.
18. Write a program to demonstrate embedded style sheets.
19. Write a program to demonstrate Class and Id.
20. Write a program to change contents and colors of text box by moving mouse over using DHTML.
21. Write a program for aligning text and setting box dimensions using cascading style sheets.
22. Write a program in Java Script to display n natural numbers.
23. Write a program Java Script to calculate Square, Cube of number using functions
24. Write a Java Script to display result of examination.
25. Write a Java Script to students registration form with following validations.


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Department of Computer Science,
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DEPARTMENT OF COMPUTER SCIENCE

Girraj Govt. College (Autonomous)

B. Sc. III Year V Semester

MODEL PAPER

Elective – II: (Paper –VI-B: Visual Basics)

Max. Marks: 70 (Theory)

SECTION – A

Answer All Questions

4 X 2.5 = 10

(Compulsory one question from each unit)

- Q.1 Unit-I
Q.2 Unit-II
Q.3 Unit-III
Q.4 Unit-IV

SECTION – B

Answer Any Four Questions

4 X 5 = 20

(Compulsory TWO question from each unit open choice questions)

- Q.5 Unit-I
Q.6 Unit-I
Q.7 Unit-II
Q.8 Unit-II
Q.9 Unit-III
Q.10 Unit-III
Q.11 Unit-IV
Q.12 Unit-IV

SECTION – C

Answer all Questions (Internal Choice)

4 X 10 = 40

(Compulsory TWO question from each unit internal choice question)

- Q.13 (a). Unit-I OR (b) Unit-I
Q.14 (a). Unit-II OR (b) Unit-II
Q.15 (a). Unit-III OR (b) Unit-III
Q.16 (a). Unit-IV OR (b) Unit-IV

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DEPARTMENT OF COMPUTER SCIENCE

Girraj Govt. College (Autonomous)

B. Sc. III Year V Semester

INTERNAL ASSESMENT

Elective – II: (Paper –VI-B: Visual Basics)

Max. Marks: (20+10)

The 30 marks internal assessment is divided into two segments as follows

Segment – I Internal Exam (20 Marks)

(Each semester two internal exams are conducted and average of two is considered)

Segment – II Seminar and Assignments (5 + 5 = 10 Marks)

Segment – I Internal Exam Paper Pattern:

SECTION – A: Multiple Choice Questions

5 X1=5

Q.1

Q.2

Q.3

Q.4

Q.5

SECTION – B : Fill in the Blanks

5 X1 =5

Q.1

Q.2

Q.3

Q.4

Q.5

SECTION – C : Match the Following

5 X1=5

Q.1

Q.2

Q.3

Q.4

Q.5

SECTION – D : One word Answers

5 X1=5

Q.1

Q.2

Q.3

Q.4

Q.5

Segment – II:

a) Seminars


1 X5=5


(Every student has to present a seminar and submit a hard copy of the same to the dept.)

b) Assignments

1 X5=5

(Every student has to prepare assignment and submit to the lecturer concerned)


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DEPARTMENT OF COMPUTER SCIENCE

Girraj Govt. College (Autonomous)

B. Sc. III Year V Semester

MODEL PAPER

Elective – II: (Paper –VIII-B VB-Script)

Max. Marks: 70 (Theory)

SECTION – A

Answer All Questions

4 X 2.5 = 10

(Compulsory one question from each unit)

- Q.1 Unit-I
Q.2 Unit-II
Q.3 Unit-III
Q.4 Unit-IV

SECTION – B

Answer Any Four Questions

4 X 5 = 20

(Compulsory TWO question from each unit open choice questions)

- Q.5 Unit-I
Q.6 Unit-I
Q.7 Unit-II
Q.8 Unit-II
Q.9 Unit-III
Q.10 Unit-III
Q.11 Unit-IV
Q.12 Unit-IV

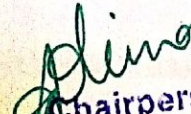
SECTION – C

Answer all Questions (Internal Choice)

4 X 10 = 40

(Compulsory TWO question from each unit internal choice question)

- Q.13 (a). Unit-I OR (b) Unit-I
Q.14 (a). Unit-II OR (b) Unit-II
Q.15 (a). Unit-III OR (b) Unit-III
Q.16 (a). Unit-IV OR (b) Unit-IV


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DEPARTMENT OF COMPUTER SCIENCE
Girraj Govt. College (Autonomous)
B. Sc. III Year VI Semester
INTERNAL ASSESMENT
Elective – II: (Paper –VIII-B VB Script)

Max. Marks: (20+10)

The 30 marks internal assessment is divided into two segments as follows

Segment – I Internal Exam (20 Marks)

(Each semester two internal exams are conducted and average of two is considered)

Segment – II Seminar and Assignments (5 + 5 = 10 Marks)

Segment – I Internal Exam Paper Pattern:

SECTION – A : Multiple Choice Questions

5 X1=5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION – B : Fill in the Blanks

5 X1 =5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION – C : Match the Following

5 X1=5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

SECTION – D : One word Answers

5 X1=5

- Q.1
- Q.2
- Q.3
- Q.4
- Q.5

Segment – II:

a) Seminars

1 X5=5


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b) Assignments

1 X5=5

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