



S.V.K.P. & Dr. K.S. RAJU ARTS & SCIENCE COLLEGE

(Autonomous)

Recognized by UGC as "College with Potential for Excellence"

Accredited by NAAC with "A" Grade

(Affiliated to ADIKAVI NANNAYA UNIVERSITY - Recognised by Govt. of Andhra Pradesh)

PENUGONDA-534 320, West Godavari District., (A.P.)

I B.Sc. (Computer Science)/ I B.Com (Computer Applications)

I Semester (w.e.f. 2019-20 Admitted Batch)

PAPER – I: COMPUTER FUNDAMENTALS AND PHOTOSHOP

MODEL PAPER

Time: 3 Hours

Max.Marks: 75

PART-I

Note: 1. Answer Any Five Questions by choosing at least two from Section-A and Section-B.

2. Each one carries 10 marks.

5 x 10 =50M

SECTION-A

1. Explain different types of computers.
2. What is an octal number system? Explain the procedure to convert an octal number into its binary.
3. Explain different output devices of computer.
4. Explain different secondary storage devices.
5. How to open a Photoshop? Explain its parts with a neat diagram?

SECTION-B

6. Explain how to create, and save and close a document in Photoshop.
7. Explain how to change the image size and resolution in Photoshop.
8. Explain how to crop and straighten an image in Photoshop.
9. Explain how to create, hide and delete layers in Photoshop.
10. Explain how to create ads in Photoshop.

PART-II

SECTION-C

Note: 1. Answer any five questions from the following.

2. Each one carries 5 marks

5 x 5= 25M

11. Explain any five characteristics of computers.
12. Explain about Hexa decimal number system.
13. Explain about applications of computers.
14. Explain the difference between system software and application software.
15. Explain how to change background in Photoshop.
16. What are the different types of screen display modes in Photoshop?
17. Explain briefly about Rulers, Guides and Grid?
18. Explain how to cut, copy and paste data in Photoshop.

I B.Sc. (Computer Science) II Semester (w.e.f 2019-20)
PAPER – II: PROGRAMMING IN “C”
MODEL PAPER

Time: 3 Hours

Max.Marks: 75

PART-I

Note: 1. Answer Any Five Questions by choosing at least two from Section-A and Section-B.

2. Each one carries 10 marks.

5 x 10 =50M

SECTION-A

1. Explain in detail about the generations of the programming languages.
2. What is an Operator? Explain various types of operators available in C?
3. Explain about various Unconditional branching statements.
4. What is a function? Explain how to declare and define a function with example.
5. What is an Array? Explain different types of Arrays.

SECTION-B

6. What is a String? Explain various character manipulation functions.
7. What is Pointer? Explain the difference between pointer and one dimensional array.
8. What is a Structure? Explain about structure within the structure.
9. What is File? Explain about File handling functions
10. Explain about Error handling during file operations with suitable example.

PART-II

SECTION-C

Note: 1. Answer any Five questions from the following.

2. Each one carries 5 marks

5 x 5= 25M

11. What is an Algorithm? What are the key features of an Algorithm?
12. Explain briefly about typecasting in ‘C’?
13. What are the differences between break and continue statements.
14. Explain the differences between local and global variables.
15. Explain briefly about the operations that can be performed on arrays.
16. Explain about string handling functions in “C”?
17. Explain briefly about Array of Structures.
18. Explain briefly about types of files in C.

**B.Sc. Second Year Computer Science
III Semester (w.e.f. 2019-20 Admitted Batch)**

Paper-3: Object Oriented Programming Using Java

MODEL PAPER

Time: 3 Hours

Max.Marks: 75

PART-I

Note: 1. Answer Any FIVE Questions by choosing at least TWO from Section-A and Section-B.

2. Each one carries 10 marks.

5 x 10 =50M

SECTION-A

1. What is OOP? Explain the Basic Concepts of Object Oriented Programming.
2. Explain the Structure of Java program with example.
3. Explain Control Structures in java with examples.
4. What is Constructor? What are its special properties? Explain different types of constructors in java.
5. What is Inheritance? Explain types of Inheritance in java with examples.

SECTION-B

6. What is Interface? How do you extend and Implement an Interface? Explain how to implement multiple inheritances in java.
7. Explain the Life Cycle of a Thread with a neat Diagram.
8. Define Exception and Exception Handling Mechanism. Explain the concept of Exception Handling Mechanism in detail.
9. Explain Applet Life Cycle with neat diagram.
10. What is a Package? Explain how to Create, Access and Use a Package.

PART-II

SECTION-C

Note: 1. Answer any FIVE questions from the following.

2. Each one carries 5 marks

5 x 5= 25M

11. Differentiate C, C++ and Java.
12. Explain about Data types available in java.
13. What are objects? Explain how they are created from class.
14. What are the differences between Method Overloading and Method Overriding?
15. What is an Array? How do you Declare, Create and Initialize an array? Explain types of Arrays.
16. Explain about Wrapper Classes with example.
17. Explain Thread Exception and how can you give Priorities in Thread.
18. Explain about Java API Packages.

**B.Sc. Second Year Computer Science
IV Semester (w.e.f. 2019-20 Admitted Batch)
Paper-4: Data Structures**

MODEL PAPER

Time: 3 Hours

Max. Marks: 75

PART-I

Note: 1. Answer any FIVE Questions by choosing at least two from Section-A and Section-B.

2. Each one carries 10 marks.

5 x 10 =50M

SECTION-A

1. Explain about different primitive and non-primitive Data Structures.
2. What is Linked List? Explain different types of Linked Lists with Diagrams.
3. What is stack? Write ADT. Explain various operations of stack.
4. What is a Queue? Write an algorithm to queue using linked list.
5. What is Tree Traversing? Explain in-order, pre-order and post-order.

SECTION-B

6. Explain different applications and properties of binary tree.
7. Write about various Graph Travelling techniques.
8. What is MST? What are the various ways to find Minimal Spanning Tree? Explain
9. What is searching? Explain Binary Search algorithm with example.
10. What is sorting? Explain Quick Sorting Technique with example.

PART-II

SECTION-C

Note: 1. Answer any five questions from the following.

2. Each one carries 5 marks

5 x 5= 25M

11. What are Sparse matrices? Explain them.
12. What is Circular Linked List? Explain about it.
13. What are the applications of stacks?
14. What is Priority Queue? Explain about it.
15. Explain about BST.
16. Explain about Threaded Binary Tree.
17. What is graph? Explain various representations of Graphs.
18. Explain Bubble sort algorithm with example.

**B.Com (Computer Applications) Second Year
III Semester (w.e.f. 2019-20 Admitted Batch)
Paper: Office Automation Tools**

MODEL PAPER

Time: 3 Hours

Max.Marks: 75

PART-I

Note: 1. Answer Any FIVE Questions by choosing at least TWO from Section-A and Section-B.

2. Each one carries 10 marks.

5 x 10 =50M

SECTION-A

1. Explain how to enter and edit formulas in Excel.
2. What is a cell reference? Explain different types of cell references in Excel.
3. What is a function? What are the advantages of functions? Explain round() and ceiling() functions.
4. Explain about financial, logical and text functions in Excel.
5. Define Chart. Explain different types of Charts.

SECTION-B

6. Define Macro. Explain how to create and run a macro.
7. Explain how to create a simple database tables in MS Access.
8. Define Form? Explain about form wizard.
9. Define a query? Explain how to write queries in MS Access.
10. Explain different types of relationships between tables with examples.

PART-II

SECTION-C

Note: 1. Answer any FIVE questions from the following.

2. Each one carries 5 marks

5 x 5= 25M

11. Create a work sheet in MS Excel.
12. Auto fill in MS Excel.
13. Various formatting options in MS Excel.
14. Date and Time functions in MS Excel
15. Data sorting and filtering.
16. Advantages of Macros.
17. Features of MS Access
18. MS-Access Reports.

**B.Com (Computer Applications) Second Year
IV Semester (w.e.f. 2019-20 Admitted Batch)**

**Paper: PROGRAMMING IN C
MODEL PAPER**

Time: 3 Hours

Max. Marks: 75

PART-I

Note: 1. Answer any FIVE Questions by choosing at least two from Section-A and Section-B.

2. Each one carries 10 marks.

5 x 10 =50M

SECTION-A

1. Explain the Structure of C Program with example?
2. Discuss various categories of Operators in C with examples?
3. Explain Decision Making (or) Conditional statements in 'C' with example?
4. What is a loop? Explain about different types of looping statements in 'C'?
5. Different parameter passing mechanisms of functions?

SECTION-B

6. What is Recursion? What are the different types of Recursion techniques?
7. Write a C program to find Addition of two matrices?
8. Define String. Write about various String Handling Functions?
9. What is Pointer? Explain about pointers in detail?
10. What is Structure? Explain about Structures in detail?

PART-II

SECTION-C

Note: 1. Answer any five questions from the following.

2. Each one carries 5 marks

5 x 5= 25M

11. Define flowchart. Explain about various flowchart symbols of flowchart?
12. What are the Data Types available in C? Explain?
13. Differentiate Break and Continue with example?
14. Write a C program to find whether a given number is Armstrong or Not?
15. Describe about Storage Classes in C?
16. Write a C program to find Factorial of a given number?
17. What is Array? How to declare and initialize arrays? Give examples?
18. Briefly explain about enumerated data types?

III B.Sc. Computer Science (19CS5A)

FIFTH SEMESTER

Database Management System

(W.e.f. 2019-20 Admitted Batch)

Time: 3 Hours

MODEL QUESTION PAPER

Max. Marks: 75

PART - 1

Answer any **FIVE** questions choosing at least two from each section.

Each question carries 10 marks.

5x10=50 Marks

SECTION-A

1. Define file-based system? What are the drawbacks of file processing system?
2. Explain in detail about database architecture?
3. What is EERM, Explain in detail?
4. Explain about the attribute classification?
5. Write about CODD rules?

SECTION-B

6. Explain about relational algebra operators?
7. Explain various types of commands available in SQL?
8. Explain aggregate functions and set operators in SQL?
9. Explain about PL/SQL Language Elements?
10. What is cursor? Explain about different types of Cursors?

PART - 2

Answer any **FIVE** questions. Each question carries 5 marks.

5x5=25 marks

11. What are the objectives of DBMS?
12. What are the building blocks of an E-R diagram?
13. What is a key? Explain the different types of keys?
14. Explain about data types in SQL?
15. Explain Exception handling mechanism of PL/SQL?
16. What are the advantages of relational algebra?
17. Explain Structure of PL/SQL?
18. Write about entity cluster?

III B.Sc. Computer Science (19CS5B)

FIFTH SEMESTER

SOFTWARE ENGINEERING

(W.e.f. 2019-20 Admitted Batch)

Time: 3 Hours

MODEL QUESTION PAPER

Max. Marks: 75

PART - 1

Answer any **FIVE** questions choosing at least two from each section.
Each question carries 10 marks.

5x10=50 Marks

SECTION-A

1. Explain about Waterfall Process Model?
2. What is Risk analysis? What are its types and explain risk analysis process.
3. Explain about Requirement Analysis?
4. Explain about Analysis Process.
5. Explain About Software Architecture.

SECTION-B

6. What is Cohesion and Coupling? Explain.
7. What are the steps used in user interface analysis and design.
8. Explain about Human Computer Interaction
9. Explain about Case Tools.
10. Explain in details Control Structures Testing?

PART - 2

Answer any **FIVE** questions. Each question carries 5 marks.

5x5=25 marks

11. Explain about process metrics?
12. Discuss about requirement Analysis?
13. Explain about Modularity?
14. Explain about Human Factors in HCI?
15. What is Black box testing and White box testing?
16. What is Project Management?
17. What is Feasibility Study?
18. Write about Abstraction?

III B.Com (Computer Applications) (19BCV56)

FIFTH SEMESTER

Database Management System

(W.e.f. 2019-20 Admitted Batch)

Time: 3 Hours

MODEL QUESTION PAPER

Max. Marks: 75

PART - 1

Answer any **FIVE** questions choosing at least two from each section.
Each question carries 10 marks.

5x10=50 Marks

SECTION-A

1. Explain about Classifications of DBMS?
2. Explain about evolution of DBMS?
3. Explain about drawbacks of File Based Systems?
4. What are the Components of DBMS? Explain?
5. What is Attributing? What are the classifications of Attribute?

SECTION-B

6. Explain about Codd rules?
7. Explain about DDL Commands with example?
8. Explain about aggregate functions?
9. Explain about PL/SQL Language Elements?
10. Explain about Control Structures in PL/SQL?

PART - 2

Answer any **FIVE** questions. Each question carries 5 marks.

5x5=25 marks

11. Explain about objectives of DBMS?
12. What is File Based System?
13. Write about Relationship Classifications?
14. What are the data types in SQL?
15. Explain the structure of PL/SQL?
16. What is Data Dictionary?
17. Write about DBMS approach?
18. What are the basic building blocks of Entity Relationship Model?

III B.Com (Computer Applications) (19BCV57)

FIFTH SEMESTER

**Web Technology
(w.e.f. 2019-20 Admitted Batch)**

Time: 3 Hours

MODEL QUESTION PAPER

Max. Marks: 75

PART - 1

Answer any **FIVE** questions choosing at least two from each section.

Each question carries 10 marks.

5x10=50 Marks

SECTION-A

1. Explain various network Topologies with neat sketch?
2. What are lists? Explain different types of lists in HTML with example program?
3. Explain properties and values in Cascading Style Sheets?
4. Explain how to format block of information?
5. Write about various String manipulation and mathematical functions in java script?

SECTION-B

6. List out various operators available in java script?
7. What is an Exception? How to handle exceptions in java script?
8. Explain Regular Expression in java script?
9. Explain Messages and Confirmation in java script.
10. What are form validations in java script?

PART - 2

Answer any **FIVE** questions. Each question carries 5 marks.

5x5=25 marks

11. Write about key features of LAN and WAN?
12. What are hyperlinks? Explain?
13. What are Cascading Style Sheets? How to define your own styles?
14. What is a Layer? Explain?
15. Describe various data types used in java Script?
16. Write about benefits and problems of java script?
17. List any three methods in Date and Window object?
18. How to open a new window?

III B.Sc. Computer Science (19CS7)
SIXTH SEMESTER
Web Technologies
(W.e.f. 2019-20 Admitted Batch)

Time: 3 Hours

MODEL QUESTION PAPER

Max. Marks: 75

PART - 1

Answer any **FIVE** questions choosing at least two from each section.

Each question carries 10 marks.

5x10=50 Marks

SECTION-A

1. Explain about the tables in HTML with example?
2. Explain how to create frames with example?
3. Explain the concept of layers in CSS. How to create them?
4. Explain the properties and values in CSS?
5. Explain about Mathematical functions in JavaScript?

SECTION-B

6. What is regular expression? Explain the creation of Regular Expressions?
7. Explain about data validation concept in detail?
8. Explain briefly about Moving Objects?
9. Explain about XML elements?
10. Explain DOM in XML?

PART - 2

Answer any **FIVE** questions. Each question carries 5 marks.

5x5=25 marks

11. What is HTML? Explain the features of HTML?
12. What is Style? Explain the class selector?
13. What is an object?
14. What is Dynamic HTML?
15. Explain the structure of XML?
16. Explain image tag in HTML with example?
17. How can you import style sheets into our web page?
18. Explain about opening a new window?

III B.Sc. Computer Science (19CS8)

SIXTH SEMESTER

DISTRIBUTED SYSTEMS

(W.e.f. 2019-20 Admitted Batch)

Time: 3 Hours

MODEL QUESTION PAPER

Max. Marks: 75

PART - 1

Answer any **FIVE** questions choosing at least two from each section.

Each question carries 10 marks.

5x10=50 Marks

SECTION-A

1. Explain about Tightly and Loosely coupled systems?
2. Explain design issues in distributed operating system?
3. Briefly explain about implementation of RPC mechanism?
4. Explain about call semantics?
5. What is a granularity? Explain criteria for choosing granularity parameter?

SECTION-B

6. Explain about Design and implementation of DSM system?
7. Explain Load Balancing Approach in Distributed System?
8. Threads in Distributed Systems?
9. Explain File Caching Schemes in Distributed System?
10. Explain Cryptography in Distributed System?

PART - 2

Answer any **FIVE** questions. Each question carries 5 marks.

5x5=25 marks

11. Write the advantages of Distributed System?
12. Define Distributed System. What are the goals of Distributed System?
13. Explain inter-process communication on message passing system?
14. Briefly explain about synchronization and buffering?
15. Briefly explain Design implementation issues of DSM?
16. How computer clocks are implemented?
17. Explain about the stub generation?
18. Write about Authentication. Write about approaches to Authentication?

III B.Sc. Computer Science (19CS9)
SIXTH SEMESTER
CLOUD COMPUTING
(W.e.f. 2019-20 Admitted Batch)

Time: 3 Hours

MODEL QUESTION PAPER

Max. Marks: 75

PART - 1

Answer any **FIVE** questions choosing at least two from each section.
Each question carries 10 marks.

5x10=50 Marks

SECTION-A

1. What is Cloud Computing? What are the characteristics of Cloud Computing?
2. What are the Components of Cloud Computing? Explain?
3. Explain about Cloud Scenarios?
4. What are the benefits of Cloud Computing? Explain?
5. Explain about cloud delivery models?

SECTION-B

6. What is Software as a Service (SaaS)? Explain?
7. Explain about Cloud Deployment Models?
8. Explain about IaaS Providers.?
9. What is Virtualization? What is the Need of Virtualization?
10. Explain about Different types of Virtualizations?

PART - 2

Answer any **FIVE** questions. Each question carries 5 marks.

5x5=25 marks

11. What are the origins of Cloud Computing?
12. What are the Limitations of Cloud Computing?
13. Explain about vendors of SaaS
14. What are the benefits of IaaS.
15. What are the limitations of Virtualization?
16. Explain about vendors of Cloud Computing.
17. Explain about Regularity issues
18. Explain about vendors of PaaS.

III B.com (Computer Application) (20EC7)

SIXTH SEMESTER

E-Commerce

(W.e.f. 2019-20 Admitted Batch)

Time: 3 Hours

MODEL QUESTION PAPER

Max. Marks: 75

PART – 1

Answer any **FIVE** questions choosing at least two from each section.
Each question carries 10 marks.

5x10=50 Marks

SECTION-A

1. What is E-Commerce? State its need and Rationality.
2. Describe EDI. Also state its essence.
3. What is B2B? Also explain the features of B2B E-Commerce.
4. Describe the concept of Electronic marketing. Also state the role of E-marketing in B2B.
5. What is Internet and Extranet? Also write a brief note on architecture of the internet.

SECTION-B

6. What is electronic payment system? Identify different issues and challenges in Electronic payment system.
7. How to protect consumer and seller in Electronic commerce?
8. What is encryption? Also write a note on encryption policies.
9. Write about various measures for internet security in E-Commerce.
10. Describe the concept of web based clients. How it is operated.

PART – 2

Answer any **FIVE** questions. Each question carries 5 marks.

5x5=25 marks

11. Scope of E-commerce.
12. Explain the role of E-Commerce in Trade cycle..
13. Write about Electronic Data Interchange.
14. JIT delivery.
15. Internet based Auctions.
16. Applications of Intranet.
17. Discuss about privacy issues in E-Commerce.
18. Write about internet protocols.