CH.S.D.ST.THERESA'S AUTONOMOUS COLLEGE FOR WOMEN:ELURU
I B.Sc.- I SEMESTER END EXAMINATION – OCTOBER 2016
COMPUTER SCIENCE PAPER I
COMPUTER FUNDAMENTALS AND PHOTOSHOP

Time: 3 hrs.   Max.Marks:50

SECTION – I

Answer any TWO of the following: 2x10=20M

1.   Draw the Block diagram of Computer and Explain each Unit.
2.   Explain different types of Memories?
3.   Explain how to create, hide and delete Layers in Photoshop?
4.   What is image? How to change the image size and resolutions in photo shop?

SECTION – II

Answer any FOUR of the following: 4x5=20M

5.   Define Computer? Write the characteristics of Computers?
6.   Explain about Hexa decimal number System?
7.   What is domain and Freeware Softwares?
8.   Explain how to change background in photoshop?
9.   Explain the Filter Menu?
10.   Explain briefly about Rulers in Photoshop?

SECTION – III

Answer ALL the following: 10x1=10M

11.   Explain the second generation of Computer?
12.   What is binary number system?
13.   Define start Menu?
14.   What is Desktop?
15.   What is Menu bar?
16.   What is patch tool?
17.   What is the purpose of Brush tool?
18.   What is Status bar?
19.   Short cut key for Layer palette?
20.   What is Layer?

PAPER CODE: COM-1B
CH.S.D.ST. THERESA'S AUTONOMOUS COLLEGE FOR WOMEN: ELURU.
I B.Sc. – II SEMESTER END EXAMINATION – MARCH 2016
COMPUTER SCIENCE PAPER I
PROGRAMMING IN 'C'

Time: 3 hrs.   Max.Marks: 50

SECTION - I

Answer any TWO of the following: 2x10=20

1.   Explain various operators in 'C' with examples.
2.   Briefly explain about storage classes with examples.
3.   Write a 'C' program to perform addition of two matrices.
4.   How to pass an array to a function with an example program.

SECTION – II

Answer any FOUR of the following: 4x5=20

5.   Write about structure of 'C' program.
6.   What are iterative statements? Explain with examples.
7.   Explain string and character functions.
8.   Write a 'C' program to swap two numbers by using pointers.
9.   What is structure and explain self referential structures.
10.   Write about recursion with an example program.

SECTION – III

Answer ALL of the following: 10x1=10

11.   What is flowchart?
12.   Define Variable.
13.   Write the syntax for function prototype.
14.   List the types of arrays.
15.   Define pointer.
16.   What is Command line arguments.
17.   Define type Casting.
18.   What is dynamic memory allocation.
19.   Write any two file operations.
20.   What is break statement.

PAPER CODE: COM-2A
CH.S.D.ST.THERESA'S AUTONOMOUS COLLEGE FOR WOMEN:ELURU
II B.Sc. – III SEMESTER END EXAMINATION – OCTOBER 2016
COMPUTER SCIENCE
OBJECT ORIENTED PROGRAMMING USING JAVA

Time: 3 hrs.   Max.Marks:50
SECTION - I

Answer any TWO of the following: 2x10=20M

1.   Explain Benefits and Applications of OOP.
2.   Explain the Decision making and branching statements in Java.
3.   What is a Thread? Explain Life Cycle of a Thread.
4.   What is a Package? How to create a package in Java with suitable example?

SECTION – II

Answer any FOUR of the following: 4x5=20M

5.   Explain JVM.
6.   Explain Bitwise Operators in Java.
7.   Write a Java Program for implementing interface?
8.   What is an Exception? How to handle exceptions in Java?
9.   What is an Applet? What are the various steps required to run an Applet?
10.   What are the different methods in Input/output stream Class.?

SECTION – III

Answer ALL the following: 10x1=10M

11.   Define Encapsulation.
12.   Define Symbolic constants.
13.   Define Type Casting.
14.   Differentiate between While and do-while Statements.
15.   What is a Constructor?
16.   What is a Vector?
17.   Define Synchronization.
18.   Define Abstract class.
19.   What is finally Statement?
20.   Define file.

PAPER CODE: COM-2B
CH.S.D.ST. THERESA'S AUTONOMOUS COLLEGE FOR WOMEN: ELURU.
II B.Sc. – IV SEMESTER END EXAMINATION – MARCH 2016
COMPUTER SCIENCE PAPER II
DATA STRUCTURES

Time: 3 hrs.   Max.Marks: 50

SECTION - I

I   Answer any TWO of the following: 2x10=20

1.   Explain Bubble Sort and selection sort techniques with examples?
2.   Write a program to implement stack operations using arrays?
3.   Explain how to insert and delete a specified link in a singly linked list?
4.   Explain Depth First Search with Example?

SECTION – II

II   Answer any FOUR of the following: 4x5 = 20

5.   Explain insertion Sort technique with example?
6.   Write about different types of Queues?
7.   Explain how to evaluate postfix expression with example?
8.   Write about Double Ended List?
9.   What is the procedure to delete a node in a Binary Tree?
10.   Explain Warshall's algorithm?

SECTION – III

III   Answer ALL of the following: 10x1=10

11.   Define Data Structure?
12.   Define Abstract Data Type?
13.   Define Array?
14.   What is the node structure of linked list?
15.   What is the difference between double ended list and doubly linked list?
16.   Define Binary Tree?
17.   What is meant by leaf node?
18.   Define Directed Graph?
19.   What is the result of Topological Sorting?
20.   What is the difference between Stack and Queue?

CH.S.D.ST. THERESA'S AUTONOMOUS COLLEGE FOR WOMEN: ELURU
III B.Sc. – V SEMESTER END EXAMINATION - OCTOBER 2017
COMPUTER SCIENCE PAPER V
DATABASE MANAGEMENT SYSTEMS

Time: 3 hrs.   Max.Marks: 50
SECTION – I

I   Answer any TWO of the following: 2x10=20M

1.   Discuss about Three-Schema Architecture.
2.   Explain High-level conceptual Data Models for Database Design with neat diagram.
3.   Explain Multivalued dependencies and 4NF.
4.   Explain Recovery Techniques based on immediate update.
SECTION – II

II   Answer any FOUR of the following: 4x5=20M

5.   What are the characteristics of database.
6.   Explain weak entities with an example.
7.   Explain INF. With suitable example.
8.   Explain briefly characterizing schedules based on recoverability.
9.   Explain concurrency control based on Time Stamp Ordering.
10. Give the features of DDBMS.

SECTION – III

III   Answer ALL questions.   10x1=10M

11. Define Schema
12. What is an Interface.
13. What is Entity.
14. Define Relationship.
15. What is Partial dependency.
16. Define Foreign key.
17. Define Time Stamp.
18. Define Meta Data
19. Define Processing.
20. Define Multi-DBMS.

SUBJECT CODE: COM-4A
CH.S.D.ST. THERESA'S AUTONOMOUS COLLEGE FOR WOMEN: ELURU
III B.Sc. – V SEMESTER END EXAMINATION - OCTOBER 2017
COMPUTER SCIENCE PAPER VI
SOFTWARE ENGINEERING

Time: 3 hrs.   Max.Marks: 50

SECTION – I

I   Answer any TWO of the following: 2x10=20M

1.   Explain briefly Software Development life cycle.
2.   Discuss about the Non-functional elicitation concepts.
3.   Explain in detail the analysis concepts.
4.   Explain briefly the Testing concepts.

SECTION – II

II   Answer any FOUR of the following: 4x5=20M

5.   What are the limitations of waterfall Model.
6.   Write short notes on Green field Engineering.
7.   Explain how associations and aggregates are identified.
8.   Explain Deployment Diagram with an example.
9.   Write about layers and partitions.
10.   Write about Erroneous states.

SECTION – III

III   Answer ALL questions.   10x1=10M

11.   What is Software Engineering.
12.   What is Testing.
13.   What is an Object.
14.   Define Completeness.
15.   Specify the template of a Use case.
16.   What is Boundary object.
17.   What is Cohesion.
18.   Define Service.
19.   What is an Error.
20.   What is Failure.

Time: 3 hrs.   Max.Marks:50

SECTION - I

I   Answer any TWO of the following.   2x10=20M

1.   Explain DBMS functions.
2.   Explain Codd's Rules.
3.   Explain Data Definition commands.
4.   Explain SQL functions.

SECTION – II

II   Answer any FOUR of the following: 4x5=20M

5.   What are different types of databases?
6.   What are basic building blocks of data Model?
7.   What are the table characteristics?
8.   What is attribute ? Write different types of attributes?
9.   Write about order by, group by commands with examples?
10.   Write about sequences with example?

SECTION –III

III   Answer ALL questions.   10x1=10M

11.   What is data and Metadata?
12.   What is constraint?
13.   Define data Redundancy?
14.   What is entity integrity?
15.   What is entity set?
16.   What is connectivity and cardinality?
17.   What is Rollback and Commit?
18.   What is syntax for SELECT statement?
19.   What is Subquery?
20.   What is Join?

CH.S.D.ST.THERESA'S AUTONOMOUS COLLEGE FOR WOMEN:ELURU
III B.Sc. – V SEMESTER END EXAMINATION – OCTOBER 2016
COMPUTER SCIENCE PAPER IV
SOFTWARE ENGINEERING

Time: 3 hrs.   Max.Marks:50

SECTION - I

Answer any TWO of the following: 2x10=20M

1.   Explain prototyping Model?
2.   Explain Various activities of Requirements Elicitation Phase?
3.   Explain different types of Analysis Activities?
4.   Explain in various Testing Activities?

SECTION – II

Answer any FOUR of the following: 4x5=20M

5.   Write a short note on Iterative Model?
6.   Explain Non functional Requirements in Analysis object?
7.   Discuss about coupling and Cohesion.
8.   Write a short note on Entity, Boundary and control objects?
9.   Explain System design activities?
10. What is testing? Give the attributes of a
     testcose?

SECTION – III

Answer ALL the following: 10x1=10

11. Define SDLC?
12. Give the IEEE definition of software engineering?
13. What is meant by Interface engineering?
14. Specify the template of a Use Cose?
15. What is the need for Analysis?
16. What is meant by unit testing?
17. What is testing?
18. Define Services and sub system?
19. What is blackbox testing?
20. Define CRC?

PAPER CODE: COM-3B
CH.S.D.ST. THERESA'S AUTONOMOUS COLLEGE FOR WOMEN: ELURU.
III B.Sc. – VI SEMESTER END EXAMINATION – MARCH 2016
COMPUTER SCIENCE PAPER III
DATABASE MANAGEMENT SYSTEM

Time: 3 hrs.   Max.Marks: 50

SECTION – I

I   Answer any TWO of the following: 2x10=20

1.   Explain the "Database Design Phase" in Database Life Cycle with neat
      Diagram.
2.   How can you control concurrency using different levels of locking?
3.   Explain the Advantages and Disadvantages of DDBMS.
4.   What is Normalization? Explain First, Second and Third Normal forms with
      examples.

SECTION – II

II   Answer any FOUR of the following: 4x5=20

5.   Explain Data base Design strategies with diagram.
6.   Explain Transaction properties.
7.   Explain briefly about DDBMS components with diagram.
8.   Write a short note on Decision support Data.
9.   Write a short note on Data Warehouse.
10.   Explain Boyce-codd Normal Form.

SECTION – III

III   Answer ALL questions.   10x1=10

11.   What is information system?
12.   What is Centralized Design?
13.   What is Scheduler?
14.   What is Exclusive lock?
15.   What is DDBMS?
16.   What is Distribution transparency?
17.   What is Star Schema?
18.   What is Data Mining?
19.   What is Multivalued Dependency?
20.   What is join Dependency?

PAPER CODE: COM-4B
CH.S.D.ST. THERESA'S AUTONOMOUS COLLEGE FOR WOMEN: ELURU.
III B.Sc. – VI SEMESTER END EXAMINATION – APRIL 2016
COMPUTER SCIENCE PAPER I
WEB TECHNOLOGIES

Time: 3 hrs.   Max.Marks: 50
SECTION - I

Answer any TWO of the following questions: 2x10=20

1.   Explain about IP and TCP
2.   Write notes on Inline, external, embedded Style sheets.
3.   Explain servlet API
4.   Explain various objects of ASP

SECTION – II

Answer any FOUR of the following: 4x5=20

5.   What are the uses of the Internet.
6.   Write about operators in Java Script.
7.   Write a script to generate random numbers between 1 and 10
8.   Write the advantages of servlets over CGI
9.   Give the XML syntax rules.
10.   What are the advantages of JSP

SECTION – III

Answer ALL the following questions.   10x1=10

11.   What is the Internet.
12.   What is WWW
13.   Define the term web site
14.   What is web server Name them.
15.   What is HTTP
16.   What is MIME
17.   What is POP
18.   What is a cookie
19.   What is ADO
20.   What is E-mail