B.Sc. DEGREE EXAMINATION, MAY – 2013  
(Examination at the end of Third Year)  
Part-II : INFORMATION TECHNOLOGY  
Paper - I : Software Engineering

Time : 03 Hours
Maximum Marks : 100

Answer any Five questions. All questions carry equal marks

1) Define Software Engineering. Discuss the various techniques used for solving a software crisis

2) Write about Software Development Life Cycle (SDLC) in detail

3) Write about the following models in SE
   i) Waterfall model
   ii) Spiral model

4) Explain the analysis model in SE detail

5) Describe software architecture and architecture design

6) Discuss the different types of testing methods for the conventional software

7) Explain the object oriented testing methods

8) a) Explain the concept of formal method techniques
    b) Write about the Re-engineering

9) Discuss the CBSE process with the help of an example

10) a) Explain the client / server software engineering
    b) Explain the Web Engineering Software Techniques
1) Define networking. Explain the OSI reference model in detail

2) Write briefly about the areas where networks are used

3) Explain the TCP/IP reference model in detail

4) Explain various congestion control schemes

5) Explain about Error detecting codes in computer networks

6) Write about sliding window protocols

7) What are the mechanisms for inter connecting networks?

8) List and describe transport services and mechanisms

9) Write about the following
   i) Network File System (NFS)
   ii) Remote Procedure Call (RPC).
   iii) Multiplexing.

10) Explain about Wide Area Network in detail
1) Explain the following:
   a) Internet Advertising.
   b) Online Banking.

2) What is www? Explain how the www works in internet.

3) What are the benefits and limitations of e-commerce.

4) Explain different services in e-commerce.

5) Explain the following:
   a) E - Business.
   b) Merchant Account.

6) Describe the major types of E-commerce.

7) Define the systems development life cycle and discuss the various steps involved in creating an e-commerce site.

8) Explain Internet Security schemes in e-commerce.

9) Write about cyber banking and online publishing.

10) Describe the features and functionality of the major types of digital payment systems.
B.Sc. DEGREE EXAMINATION, MAY - 2013
(Examination at the end of Third Year)
Part - II : Information Technology
Paper - IV : DATA WAREHOUSING

Time : 03 Hours                Maximum Marks : 100

Answer any Five questions
All questions carry equal marks

1) Write short notes on :
   a) Importance of meta data in data warehouse.
   b) Data loading.

2) Describe OLAP significance in Business Intelligence.

3) Illustrate Extraction, Transformation and loading in Data Warehousing.

4) Discuss architectural components of Data Warehousing.

5) Explain infrastructure as the foundation for Data Warehouse in detail.

6) Draw and explain the star schema for the Data Warehouse?

7) a) Write about Enterprise Reporting.
    b) What is the role of BI?

8) Mention the principles of dimensional modeling.

9) Explain Aggregate Fact Table.

10) Write the differences between OLTP and OLAP.
B.Sc. DEGREE EXAMINATION, MAY – 2013
(Examination at the end of Third Year)
Part-II : INFORMATION TECHNOLOGY
Paper-V : Visual Programming

Time : 03 Hours
Maximum Marks : 100

Answer any Five questions
All questions carry equal marks

1) Explain the Hardware & Software requirements for Visual Programming

2) What is IDE? Explain about visual C++ IDE

3) Write about the following
   i) Windows installation
   ii) Documentation system
   iii) Visual Programming tools and utilities

4) What is Debugging? Explain simple and advanced techniques of Debugging

5) Write about object oriented programming foundation details

6) Explain about the following in VC++ IDE
   i) File menu
   ii) Project menu
   iii) Build menu
   iv) Tools menu

7) Describe the microsoft foundation classes utilities in detail

8) Explain the steps in APP Wizard and class wizard

9) Explain the Active-x Technology and its controls in VC++.

10) Write about the OLE concept in detail.