# B.Sc. DEGREE EXAMINATION, APRIL 2011 First Semester

# Software

# UNIX AND C PROGRAMMING

(CBCS-2008 onwards)

Time : 3 Hours

Maximum: 75 Marks

Part A

 $(10 \times 2 = 20)$ 

# Answer **all** questions.

- 1. What is a Shell?
- 2. Write a Command to create a text file in UNIX.
- 3. What are Unary operators ?
- 4. What is the purpose of getchar function ?
- 5. What is C preprocessor ?

- 6. Define Recursion and Macro.
- 7. What is a Malloc () function ?
- 8. What is single dimensional Array?
- 9. How can you find the size of Structure ?
- 10. What is a bit field ?

# **Part B** (5 × 5 = 25)

# Answer **all** questions.

11. (a) What are the shell built - in variables ? Explain them.

## (Or)

(b) Briefly explain Directory commands with example.

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12. (a) Discuss on gets and puts function with example.

### (Or)

- (b) Explain switch-break-and continue statement.
- 13. (a) Briefly explain storage classes.

### (Or)

- (b) Explain various Library functions in C.
- 14. (a) How do you define a string in array.

## (Or)

(b) Write a 'C' program to pass a Pointer to a function.

15. (a) What is Enumeration ? Briefly explain.

#### (Or)

(b) Declare the structure for employee details and write a method to access data members.

**Part C**  $(3 \times 10 = 30)$ 

Answer any **three** questions.

- 16. Discuss on File permissions and File security.
- 17. Discuss on if-then-else nested structure with suitable program.
- Explain a function with its definition and calling method by passing argument.
- 19. Explain the method to declare dynamic memory allocation with suitable program.
- 20. Discuss in detail a method how to pass the structure to a function.

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# B.Sc. DEGREE EXAMINATION, APRIL 2011 Second Semester

# Software

# **PROGRAMMING IN C++ AND ALGORITHMS**

(CBCS-2008 onwards)

Time: 3 Hours

Maximum: 75 Marks

Part A

 $(10 \times 2 = 20)$ 

# Answer **all** the questions.

- 1. Define Class.
- 2. What is Array of objects ?
- 3. Give an example for two-dimensional array.
- 4. When will the constructors are executed ?
- 5. Define Inheritance.

- 6. What is this pointer ?.
- 7. Define Topological sort.
- 8. What is finding the closest pairs of points?
- 9. Define Huffmann code.
- 10. What is coin changing ?

# **Part B** (5 × 5 = 25)

### Answer **all** questions.

11. (a) Write a C++ program to search a number in a set of a numbers.

#### (Or)

(b) Write a note on pointer to member.

12. (a) Discuss constructors in detail.

#### (Or)

- (b) Write note on Dynamic Initialization of objects in detail.
- 13. (a) Write a note on Type conversion in detail.

# (Or)

- (b) Discuss polymorphism.
- 14. (a) Write note on merge sort in detail.

## (Or)

(b) Discuss Insertion sort in detail

15. (a) Explain the Prim's algorithm.

### (Or)

(b) Write an algorithm for multiplying two matrices.

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Part C (3 × 10 = 30)
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Answer any **three** questions.

- 16. Discuss the control structures in C++ in detail with examples.
- 17. Write note on :
  - (a) Copy constructors
  - (b) Destructors
- 18. Discuss pointers to objects in detail with example.
- 19. Explain the Breadth-First search in detail.
- 20. Explain the longest-common-subsequence problem.

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# B.Sc. DEGREE EXAMINATION, APRIL 2011 Third Semester

# Software

# JAVA PROGRAMMING

(CBCS—2008 onwards)

Time : 3 Hours

Maximum: 75 Marks

Part A

 $(10 \times 2 = 20)$ 

# Answer **all** questions.

- 1. What is meant by Class ?
- 2. What is meant by applet ?
- 3. What is meant by casting a value ?
- 4. Write the general format of else if statement.
- 5. What is destructor ?

- 6. What is an Array ?
- 7. What is static import ?
- 8. How do you declare the class in extending the thread method ?
- Write any two attributes and its meaning of Applet Tag.
- 10. Write any two Tag and its function of HTML tag.

### Answer **all** the questions.

11. (a) Write any five features of Java.

#### (Or)

(b) Write short notes on JDK.

12. (a) Explain assignment Operator.

#### (Or)

- (b) Explain Nesting for loop statements ? Give an example ?
- 13. (a) What is Constructor ? What are its special properties ?

#### (Or)

- (b) How can you access interface variables ? Give an example.
- 14. (a) Explain the naming Conventions.

## (Or)

(b) Explain the Thread Exceptions.

15. (a) How does Applets differ from Applications ?

## (Or)

(b) What is remote applet ?

# Part C

 $(3 \times 10 = 30)$ 

Answer any **three** questions.

- 16. Explain the following :
  - (a) Data abstraction and data encapsulation.
  - (b) Inheritance and Polymorphism.
- 17. Explain the following statement.
  - (a) Simple if.
  - (b) If else.
  - (c) While statement.

- Discuss the different levels of access protection available in Java.
- 19. Briefly explain life cycle of a thread.
- 20. Write applets to draw the following shape :
  - (a) Cone.
  - (b) Cube.

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# B.Sc. DEGREE EXAMINATION, APRIL 2011 Fourth Semester

# Software

# VISUAL BASIC PROGRAMMING

(CBCS-2008 onwards)

Time : 3 Hours

Maximum: 75 Marks

Part A

 $(10 \times 2 = 20)$ 

Answer **all** the questions.

- 1. List the three methods of collection object.
- 2. What is the purpose of named arguments ?
- 3. What is access keys?
- 4. What is shortcut keys ?
- 5. What are the two methods commonly used to align a text on a form ?

- 6. What is the purpose of Auto Redraw properties ?
- 7. How items are called in a tree structure ?
- 8. What is MDI?
- 9. Define Foreign key.
- 10. Give the syntax of left outer join.

# **Part B** (5 × 5= 25)

Answer **all** the questions choosing **either** (a) **or** (b).

11. (a) Explain Visual Basic numeric data types.

## (Or)

(b) Explain variable's scope in detail.

12. (a) Explain the show method of a form.

#### (Or)

- (b) What is pop-up menu? Explain.
- 13. (a) What are the file format supported by picture box and how will you load pictures into a picture box ?

#### (Or)

- (b) What is the use of device context ? Explain in detail.
- 14. (a) Explain Treeview control and its structures in detail.

#### (Or)

(b) Explain the text formatting properties of Richtextbox control.

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15. (a) Explain the methods to locate a record in the recordset.

#### (Or)

- (b) Explain SQL joins in detail.
  - **Part C** (3 × 10 = 30)

Answer any **three** questions.

- 16. Explain procedures and functions in Visual Basic.
- 17. How will you create menus ? Explain with examples.
- Explain different types of lines and shapes in VB Graphics.
- 19. Explain about MSFlexgrid controls in details.
- 20. How will you connect database using ADO ? Explain with examples.

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# B.Sc. DEGREE EXAMINATION, APRIL 2011 Fifth Semester

# Software

# SOFTWARE TESTING

(CBCS—2008 onwards)

Time : 3 Hours

Maximum: 75 Marks

Part A

 $(10 \times 2 = 20)$ 

# Answer **all** the questions.

- 1. What is static testing?
- 2. Define Cyclomatic Complexity.
- 3. What is exported interfaces ?
- 4. Differentiate reliability with reliability testing.
- 5. Define throughput.

- 6. Define Smoke testing.
- 7. Define style sheets.
- 8. What is Usability Validation ?
- 9. What is Risk identification ?
- 10. What is Configuration file ?

# **Part B** (5 × 5 = 25)

## Answer **all** the questions.

11. (a) State the Challenges in White Box testing.

#### (Or)

(b) Explain decision tables.

12. (a) Explain Top-down Integration.

### (Or)

- (b) State the guidelines that help in improving interoperability.
- 13. (a) Explain the tools for performance testing.

# (Or)

- (b) Explain the types of Regression testing.
- 14. (a) State the use of activity diagram.

## (Or)

(b) Explain the quality factors for usability.

15. (a) Discuss Test Summary Report.

### (Or)

(b) Explain the skills needed for Automation.

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Part C (3 × 10 = 30)
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Answer any **three** questions.

- 16. Discuss the functionality of Black Box testing and explain when to do Black Box testing.
- 17. Explain in detail Acceptance testing.
- 18. How to do Regression testing ? Explain.
- 19. Explain the basic Concepts of OO System that are relevant for testing ?
- 20. Explain the design and Architecture for automation.

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# B.Sc. DEGREE EXAMINATION, APRIL 2011 Fifth Semester

## Software

# MULTIMEDIA

(CBCS-2008 onwards)

Time : 3 Hours

Maximum: 75 Marks

Part A

 $(10 \times 2 = 20)$ 

# Answer **all** questions.

- 1. What do you mean by flash movie ?
- 2. List any two uses of insert menu in Flash MX.
- 3. How do you create overlay objects?
- 4. What is a text label?
- 5. What is meant by tweening ?

- 6. What are the three sound formats that can be used in Flash ?
- 7. What do you mean by the term screen modes ?
- 8. Define : Layer effects.
- 9. What do you mean by blur ?
- 10. Define : Liquify filter.

# **Part B** (5 × 5 = 25)

# Answer all questions.

11. (a) Explain : Panels.

(Or)

- (b) Write short note on Contextual menus.
- 12. (a) What do you mean by Free transformation tool ? How it works ?

### (Or)

- (b) Discuss the various properties available Frames in Flash.
- 13. (a) What are the ways to use sounds in Flash?

### (Or)

(b) What are the characteristics of Digital Sound ? Explain. 14. (a) Write note on Color picker palettes.

## (Or)

- (b) Which is the most commonly used tool for retouching old images ? Explain.
- 15. (a) Explain : Layers palette.

### (Or)

- (b) Briefly discuss Distort filters.
  - **Part C** (3 × 10 = 30)

## Answer any **three** questions.

- 16. Explain the evolution of Flash and its uses.
- 17. Explain the advanced editing techniques in Flash.

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- 18. Describe the following
  - (a) Text animation.
  - (b) 3D animation.
- Discuss the various drawing tools included in Photoshop.
- 20. What is layer ? Explain different types of layers.

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# B.Sc. DEGREE EXAMINATION, APRIL 2011 Fifth Semester

# Software

# **Elective : DATABASE MANAGEMENT SYSTEMS**

(CBCS-2008 onwards)

Time : 3 Hours

Maximum: 75 Marks

Part A

 $(10 \times 2 = 20)$ 

# Answer **all** questions.

- 1. What is Database Management system?
- 2. Describe Foreign key.
- 3. Define Data Independence.
- 4. What is specialization ?
- 5. List out the characteristics of centralized databases.

- 6. What do you mean by database integrity?
- 7. What is meant by an instance of the database and schema?
- 8. What is SQL? What are the characteristics of SQL?
- 9. Distinguish between Static and Dynamic SQL.
- 10. What is Transaction Manager ?

Answer **all** questions.

11. (a) What are the responsibilities of a Database Administrator in an organization ?

(Or)

- (b) What is a view ? How it is related to data independence ?
- 12. (a) What do you meant by a key ? Explain the difference between various keys.

#### (Or)

- (b) Define Network database model.
- (a) Explain about the architecture of database system.

## (Or)

(b) What are the types of transparencies that a distributed database must support ? Why ?

14. (a) What are the steps involved in query processing?How would you estimate the cost of the query ?

#### (Or)

- (b) What is the use of Integrity constraints? Compare with Domain constraints.
- 15. (a) What is database Trigger ? Give example.

#### (Or)

(b) What are stored-procedures ? What are the advantages of using them ?

# Part C

Answer any **three** questions.

- What are various components of Database System ?
  Explain in detail.
- 17. What is meant by the term relationship between entities ? Explain the different types of relationships that can exist with examples.
- What are the main differences between a Parallel and a Distributed system ? Explain.
- 19. What is indexing and what are the different kinds of indexing ?
- 20. How are exceptions handled in PL/SQL? Give example.

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# B.Sc. DEGREE EXAMINATION, APRIL 2011 Fifth Semester

# Software

# **Elective : COMPUTER GRAPHICS**

(CBCS-2008 onwards)

Time : 3 Hours

Maximum: 75 Marks

Part A

 $(10 \times 2 = 20)$ 

# Answer **all** questions.

- 1. Expand DDA.
- 2. Write any two input devices and output devices.
- 3. Define Rotation.
- 4. What is the difference between Basic transformation and Composite transformation ?
- 5. Define : Clipping.

- 6. Define : Shield.
- 7. Define : Mirror reflection.
- 8. Define : Translation in 3 D.
- 9. What is Feedback ?
- 10. Define : User Model.

# **Part B** (5 × 5 = 25)

## Answer all questions.

11. (a) Explain Color CRT Monitors.

# (Or)

(b) Write short notes on plasma - panel displays.

12. (a) Discuss on the two - dimensional viewing functions.

#### (Or)

- (b) Explain Scaling transformation with neat diagram.
- 13. (a) Explain Parallel Projection and Perspective Projection.

#### (Or)

- (b) Explain Polygon surfaces and Polygon tables.
- 14. (a) Explain three-dimensional translation.

#### (Or)

(b) Write short note on three-dimensional transformation functions.

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15. (a) Explain the User's Model.

### (Or)

(b) Write short note on Information display.

**Part C** (3 × 10 = 30)

# Answer any **three** questions.

- 16. Explain DDA line drawing algorithm.
- 17. Explain in detail about Composite transformations.
- 18. Explain Spline representations of curves.
- 19. Discuss on three dimensional rotation.
- 20. Discuss on styles of Command language.

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# B.Sc. DEGREE EXAMINATION, APRIL 2011 Fifth Semester

# Software

# **Elective : DIGITAL IMAGE PROCESSING**

(CBCS-2008 onwards)

Time : 3 Hours

Maximum: 75 Marks

Part A

 $(10 \times 2 = 20)$ 

# Answer **all** the questions.

- 1. What is Digital Image Processing?
- 2. Define Sampling.
- 3. Define Fourier Transform.
- 4. Define Discrete Fourier Transform.
- 5. What is meant by Smoothing filters?

- 6. What is meant by Degradation model?
- 7. Write about Error free Compression.
- 8. What is meant by Run-length Code?
- 9. Define Texture.
- 10. What is meant by Image Recognition ?
  - **Part B** (5 × 5 = 25)

# Answer all questions.

11. (a) Write the fundamental steps for DIP.

# (Or)

(b) Discuss about Sampling and Quantization.

12. (a) Discuss about any two properties of Fourier Transform.

#### (Or)

- (b) Discuss about any two other separable image Transforms.
- 13. (a) Write short notes on Spatial filtering.

### (Or)

- (b) Discuss about Inverse filtering.
- 14. (a) Write about Lossy Compression in detail.

#### (Or)

(b) Discuss about Point-Processing in image Segmentation.

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15. (a) Discuss about Regional Descriptors.

#### (Or)

- (b) Write about the elements of Image Analysis.
  - **Part C** (3 × 10 = 30)

## Answer any **three** questions.

- Explain about the fundamental steps in Image Processing.
- 17. Explain with example the Discrete Fourier Transform.
- 18. Discuss in detail about the Color Image Processing.
- Distinguish between the Lossless compression and Lossy compression in detail.
- 20. Explain about Morphology with suitable examples.

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# B.Sc. DEGREE EXAMINATION, APRIL 2011 Fifth Semester

## Software

# Elective : MANAGEMENT INFORMATION SYSTEMS

(CBCS-2008 onwards)

Time : 3 Hours

Maximum: 75 Marks

**Part A**  $(10 \times 2 = 20)$ 

Answer **all** questions.

- 1. What are the various activity subsystem in Information System?
- 2. List out all operating elements of an Information System.
- 3. Define Data model. What are the two major classes of data models ?
- 4. What is meant by document filling?

- 5. What is the use of decision tree ? Give an example.
- 6. What is cognitive style ?
- 7. Define Expert system.
- 8. What are the various activities of knowledge work?
- 9. Define Database.
- 10. What are the elements in E R model ?

**Part B** 
$$(5 \times 5 = 25)$$

# Answer **all** questions.

11. (a) Explain the various Organizational Function Subsystems of an MIS.

- (b) Explain the information systems for strategic planning.
- 12. (a) Briefly explain the Hardware and Software needed for Information System.

#### (Or)

- (b) Explain the various methods for processing Transactions.
- 13. (a) What are the three phases of decision making process ? Explain.

(Or)

(b) Explain the various components of the Human Information Processing System.

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14. (a) Explain the classes of Decision Support Systems.

## (Or)

- (b) Explain the various technology in support of Knowledge work.
- 15. (a) What are the three levels of Information Requirements? Explain.

## (Or)

(b) Explain the various components of user Interface.

# Part C

Answer any **three** questions.

- 16. Describe the purpose and organization of this Text.
- 17. Briefly explain the types of communication Networks in Information System.
- Briefly explain the value of information in Decision Making.
- 19. What are the various approaches to development of Decision Support Systems ? Explain.
- 20. Define Normalization. Explain Normalization process in Database design.

# B.Sc. DEGREE EXAMINATION, APRIL 2011 Sixth Semester

# Software

# WEB DESIGN TECHNOLOGY

(CBCS-2008 onwards)

Time : 3 Hours

Maximum: 75 Marks

Part A (10

 $(10 \times 2 = 20)$ 

Answer **all** questions.

- 1. What are the important components of header section in HTML ?
- 2. What is the use of Caption element?
- 3. What is dangling else problem ?
- 4. What is the use of break statement in Javascript?
- 5. What is recursion ?

- 6. What is tokenization ?
- 7. What do you mean by dynamic positioning ?
- 8. What are the three parameters of on error event ?
- 9. What is the function of EOF () property?
- 10. What is the use of TDC?

## **Part B** (5 × 5 = 25)

# Answer all questions.

11. (a) How to insert an image in the document ? Give example.

#### (Or)

(b) Explain ordered and unordered lists in HTML.

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12. (a) Explain the If selection statement with suitable example.

### (Or)

- (b) Explain the header components of for statement.
- 13. (a) Explain with example how to initialize a single eliminational and multidimensional array.

## (Or)

- (b) Explain the character processing methods in Javascript in detail.
- 14. (a) What is the use of frames collection ? Explain with example.

## (Or)

(b) What is the use of Chroma filter ? Explain.

15. (a) How to bind data to img element ? Explain.

#### (Or)

(b) Explain how to do scaling in shapes with suitable example.

**Part C** 
$$(3 \times 10 = 30)$$

Answer any **three** questions.

- Design a HTML page of Arts and Science faculty in your University by considering minimum of three departments.
- 17. With a javascript coding explain the switch structure.
- 18. Write a program using javascript to sort an array with sort.

- 19. Explain any five event models that respond to user actions with simple examples.
- 20. Explain the different path controls available in dynamic HTML with suitable examples.

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# B.Sc. DEGREE EXAMINATION, APRIL 2011 Sixth Semester

# Software

# SOFTWARE ENGINEERING

(CBCS-2008 onwards)

Time : 3 Hours

Maximum: 75 Marks

Part A

 $(10 \times 2 = 20)$ 

Answer **all** the questions.

- 1. What is Software Engineering?
- 2. Define : Planning.
- 3. What is a cost estimation ?
- 4. Define : Software.
- 5. Name some modules in software design.

- 6. Define: Code.
- 7. What is meant by System Testing?
- 8. Name any two tools to maintain the software.
- 9. What is SQA?
- 10. Name any two SQA plan.

## **Part B** (5 × 5 = 25)

## Answer **all** the questions.

11. (a) Mention the managerial issues in Software Engineering.

#### (Or)

(b) Discuss about other planning activities.

12. (a) How can you estimate the software maintenance cost ?

#### (Or)

- (b) Discuss about the software requirement specifications.
- 13. (a) Write all the guidelines for System Design.

#### (Or)

- (b) Write about the guidelines for Software Implementation.
- 14. (a) Mention any four strategic issues in Software Testing.

(Or)

- (b) Write about the source code matrices in Software Maintenance.
- 15. (a) Discuss about the concepts of Quality.

# (Or)

- (b) Discuss about the ISO 9000 Quality Standards.
  - **Part C** (3 × 10 = 30)

## Answer any **three** questions.

- 16. Explain about the Size, Production and Quality Factors.
- 17. Explain about the Software Requirements and the specification Techniques.

- 18. Explain about the System Design.
- 19. Explain the maintenance of a Software.
- 20. Explain the Formal Technical review and Software review.

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# B.Sc. DEGREE EXAMINATION, APRIL 2011 Sixth Semester

# Software

# **CLIENT/ SERVER COMPUTING**

(CBCS-2008 onwards)

Time : 3 Hours

Maximum: 75 Marks

Part A

 $(10 \times 2 = 20)$ 

# Answer **all** questions.

- 1. Define Client / Server computing.
- 2. Define Co-operative processing.
- 3. What is GUI? Give any two usage.
- 4. What is the use of Automatic Testing facility ?
- 5. What is Disk mirroring and Disk duplexing?

- 6. What are the various features in Server Data Management Software?
- 7. What are the various types of Network topologies ?
- 8. What is the use of Routers ?
- 9. Write any two training advantages of GUI applications.
- 10. What is reliability in Client/Server system?

#### Answer **all** questions.

11. (a) Explain the various components of Client/Server Applications.

#### (Or)

(b) Explain the various categories of Client/Server Applications.

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12. (a) Explain the various components of Client.

### (Or)

- (b) Write a short notes on Database access tools.
- 13. (a) What are the features of Server Machine ?Explain.

## (Or)

- (b) Briefly explain the requirements of server.
- 14. (a) Explain OSI Model with diagram.

## (Or)

(b) Explain the various ways to interconnect LAN.

15. (a) Briefly explain LAN and Network Management issues.

#### (Or)

(b) Explain System administrator and Database administrator Training.

**Part C** 
$$(3 \times 10 = 30)$$

Answer any **three** questions.

- 16. Explain the benefits of Client/ Server Computing.
- 17. Explain the GUI Environments in Client/ Server Computing.
- Explain the common features of Server Data Management Software.

- 19. Explain the following :-
  - (a) Netware.
  - (b) LAN Manager.
  - (c) VINES.
- 20. Write short notes on :-
  - (a) Software distribution.
  - (b) Network Management.
  - (c) Help desk.

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# B.Sc. DEGREE EXAMINATION, APRIL 2011 Sixth Semester

# Software

# **Elective : COMPUTER NETWORKS**

(CBCS—2008 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

 $(10 \times 2 = 20)$ 

# Answer **all** the questions.

- 1. Define Software.
- 2. What is the use of Computer Networks?
- 3. What is meant by Error detection and Error correction code ?
- 4. What is a CSMA Protocol ?
- 5. What is a Firewall ?

- 6. Define Multicasting.
- 7. What is the use of Transport Service ?
- 8. What is the use of TCP?
- 9. Define WWW.
- 10. Define Cryptography.

# **Part B** (5 × 5 = 25)

# Answer **all** the questions.

11. (a) Discuss about the Network Standards.

# (Or)

(b) Mention the advantages of Satellites.

12. (a) Describe "PPP" Protocol.

### (Or)

- (b) Discuss about the Collision free Protocol.
- 13. (a) Write about the Subnet?

#### (Or)

- (b) Differentiate Routing, Switching and Gateway.
- 14. (a) How can you measure the performance of a Network ?

(Or)

(b) Discuss about the TCP/IP.

15. (a) Mention any four MPEG standards.

# (Or)

(b) Write about Electronic Mail Privacy.

**Part C** (3 × 10 = 30)

# Answer any **three** questions.

- 16. Explain about the Physical layer.
- 17. Discuss in detail about the Dlink Protocol.
- 18. Explain about the ATM Network.
- 19. Explain about the Transport layer.
- 20. Explain about the Data Compression and its standards.

# B.Sc. DEGREE EXAMINATION, APRIL 2011 Sixth Semester

# Software

# Elective : DATA MINING AND DATA WARE HOUSING

(CBCS—2008 onwards)

Time : 3 Hours

Maximum: 75 Marks

Part A

 $(10 \times 2 = 20)$ 

Answer **all** the questions.

- 1. What is Data Mining?
- 2. What is meant by Query Manager?
- 3. What is the role of System manager ?
- 4. Define Process.
- 5. Mention the metrics of Data Mining?

- 6. How can you represent the Data mining from the Data base ?
- 7. Define OLTP.
- 8. Define Neural Networks.
- 9. What is meant by Incremental Rule?
- 10. How can you measure the Quality of a Rule ?

Answer **all** the questions.

11. (a) Discuss the delivery process in Data Warehouse.

# (Or)

(b) Write about Extract and Load Process.

12. (a) Differentiate between the Data Warehouse Process Manager and Warehouse Manager.

### (Or)

- (b) How can you estimate the Load ?
- 13. (a) Write about knowledge Discovery Database.

## (Or)

- (b) Describe the issues of Data Mining.
- 14. (a) Write about Decision Support Systems.

## (Or)

(b) Describe any two Data Mining Techniques.

15. (a) Write a short note on Parallel and Distributed algorithms.

#### (Or)

(b) Discuss about the Association Rules.

$$Part C \qquad (3 \times 10 = 30)$$

Answer any **three** questions.

- 16. Explain about the process Architecture.
- 17. Explain the Tuning of Data Warehousing.
- 18. Discuss about the issues and Metrics in Data Mining.
- Explain about the Information Retrieval in Data Mining and Warehousing.
- 20. Explain the Advanced Techniques in an Association Rule.

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