Sub. Code 7BCE1C1

# **B.Sc. DEGREE EXAMINATION, NOVEMBER 2021**

#### First Semester

# **Computer Science**

## PROGRAMMING IN C

(CBCS - 2017 onwards)

Time: 3 Hours Maximum: 75 Marks

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

- 1. What are C tokens?
- 2. Write the rules for declaration of variables.
- 3. What is the purpose of getch() function?
- 4. What is ternary operator?
- 5. Define two dimensional array.
- 6. How strings are declared?
- 7. Define function prototype.
- 8. How structure members are accessed?
- 9. What is pointer?
- 10. Write the function to open and close the file in C language.

 $(5 \times 5 = 25)$ 

Answer all questions, choosing either (a) or (b).

11. (a) Describe the basic structure of C program.

Or

- (b) Write a note on operator precedence and associativity.
- 12. (a) Discuss briefly about switch statement with example program.

Or

- (b) What are jumps in loops? Explain.
- 13. (a) Brief on multidimensional arrays.

Or

- (b) Write a program to check whether a given string is palindrome or not.
- 14. (a) What is recursion? Give an example.

Or

- (b) Compare structure and union.
- 15. (a) Write about chain of pointers.

Or

(b) What are command line arguments? Illustrate with an example program.

2

# Answer any **three** questions.

- 16. What is an expression? Explain evaluation of expression with example.
- 17. Explain about decision making statements in C.
- 18. List and explain any five string handling functions.
- 19. Explain various categories of user defined functions.
- 20. Explain about IO operations on files.

F-6090

Sub. Code

**7BCE2C1** 

# B.Sc. DEGREE EXAMINATION, NOVEMBER 2021.

## Second Semester

# **Computer Science**

## OBJECT ORIENTED PROGRAMMING WITH C++

(CBCS - 2017 onwards)

Time: 3 Hours Maximum: 75 Marks

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

- 1. What are the application of OOP?
- 2. Define Data Abstraction.
- 3. Define member function.
- 4. What is static binding?
- 5. What is an abstract class?
- 6. Define virtual base class. Give an example.
- 7. What is virtual function?
- 8. What are the differences between pointers to constants and constant pointers?
- 9. Define 'this' pointer.
- 10. What are the advantages of template function in C++?

 $(5 \times 5 = 25)$ 

Answer all questions, choosing either (a) or (b).

11. (a) What are the features of Object oriented programming?

Or

- (b) Describe data types in C++ in Details.
- 12. (a) Write a C++ program to illustrate the static function.

Or

- (b) Explain the copy constructors with an example.
- 13. (a) Explain briefly about function overloading with a suitable example.

Or

- (b) Write the rules for overloading operators.
- 14. (a) Explain use of pointer in C++.

Or

- (b) Define pure virtual function. Give an example program.
- 15. (a) Write a simple program to read content from one file and write them into another file.

Or

(b) Discuss the command line arguments in detail.

2

## Answer any **three** questions.

- 16. Explain the basic concepts of Object oriented programming.
- 17. Discuss all constructor types and destructors with example.
- 18. Write a program to add two complex numbers using operator overloading concept.
- 19. Write a C++ program demonstrating use of the pure virtual function with the use of base and derived classes.
- 20. Explain the use of ifstream and ofstream classes for file input and output.

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Sub. Code 7BCE3C1

# B.Sc. DEGREE EXAMINATION, NOVEMBER 2021.

## Third Semester

## **Computer Science**

#### DATA STRUCTURES AND COMPUTER ALGORITHMS

(CBCS - 2017 onwards)

Time: 3 Hours Maximum: 75 Marks

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

- 1. Define data structure. Give an example.
- 2. Give an example for single and two dimensional arrays.
- 3. Give an application for stack and queue.
- 4. Draw a circular queue and list the advantage of circular queue.
- 5. Differentiate tree and binary tree.
- 6. Draw an expression tree and state its advantage.
- 7. Define the terms Finiteness and Definiteness with respect to an algorithm.
- 8. State the time complexity of merge sort and quick sort.
- 9. Define Connected graph and give an example.
- 10. State the objective function and the constraints involved in knapsack problem.

 $(5 \times 5 = 25)$ 

Answer all questions, choosing either (a) or (b).

11. (a) Explain insertion and deletion in single linked list

 $O_1$ 

- (b) Explain how to perform search and reversal in a doubly linked list.
- 12. (a) Explain how stack can be implemented using arrays and linked list.

Or

- (b) Explain insertion and deletion operations on queue with suitable example.
- 13. (a) Explain how the Inorder successor can be found in a Threaded binary tree.

Or

- (b) Construct the binary tree from the following preorder and inorder traversal sequence: Preorder: ABCDEF Inorder: CBAEDF.
- 14. (a) Sort the following set of elements using merge sort. Provide stepwise explanation. 12, 24, 8, 71, 4, 23, 6, 80.

Or

- (b) Write an algorithm that performs binary search. Analyse the algorithm with respect to space and time complexity
- 15. (a) Explain Kruskal algorithm with an example.

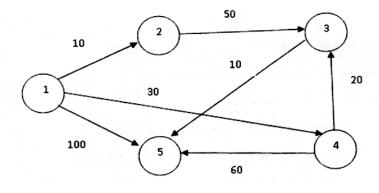
Or

(b) Explain the graph traversal techniques with example.

2

## Answer any three questions.

- 16. Explain with example how insertion and deletion can be performed on a circular linked list under the following three conditions.
  - (a) Element is to be inserted/deleted at the beginning
  - (b) Element is to be inserted/deleted before a particular element
  - (c) Element is to be inserted/deleted at the end.
- 17. Write the algorithm to convert infix to postfix expression using stacks. Explain with an example.
- 18. Explain the various ways of representing a binary tree and explain the various tree traversal techniques.
- 19. Explain Strassen's Matrix multiplication and mention its advantage.
- 20. Apply Dijsktra's algorithm for the following graph and find the shortest path from vertex 1 to all other vertices.



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Sub. Code 7BCE4C1

# B.Sc. DEGREE EXAMINATION, NOVEMBER 2021.

## **Fourth Semester**

# **Computer Science**

## JAVA PROGRAMMING

## (CBCS 2017 onwards)

Time: 3 Hours Maximum: 75 Marks

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

- 1. Define JVM.
- 2. What is meant by Variables?
- 3. Define Logical Operator.
- 4. Write the Syntax for Do-While?
- 5. Define Objects.
- 6. What is meant by Wrapper Classes?
- 7. Define Threads.
- 8. Write the Syntax for Exception Handling Code.
- 9. How Applets differ from Applications?
- 10. How to draw Polygons using Graphics Programming?

 $(5 \times 5 = 25)$ 

Answer all questions, choosing either (a) or (b).

11. (a) Write short notes on History of Java.

Or

- (b) Explain Java Program Structure.
- 12. (a) Discuss about Evaluation of Expression, in Java with examples.

Or

- (b) Explain about Operator Precedence and Associativity.
- 13. (a) Explain about Constructors.

Or

- (b) Discuss about overriding methods.
- 14. (a) How to add a class to a Package?

Or

- (b) How to implementing the 'Runnable' interfaces?
- 15. (a) Explain about how to pass parameters to Applets?

Or

(b) How to use the Control Loops in Applets?

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

Answer any three questions.

- 16. Briefly explain about how to implement a Java Programming.
- 17. Give a Brief explanation about Decision making and looping with suitable example

2

- 18. Describe the following with example
  - (a) Arrays
  - (b) Strings
  - (c) Vectors.
- 19. Discuss briefly about Multithreaded Programming in Java.
- 20. Explain about Graphics Programming with suitable examples.

Sub. Code 7BCE5C1

# **B.Sc. DEGREE EXAMINATION, NOVEMBER 2021**

# Fifth Semester

# **Computer Science**

## **OPERATING SYSTEM**

(CBCS - 2017 onwards)

Time: 3 Hours Maximum: 75 Marks

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

- 1. What is an operating system?
- 2. What is a process?
- 3. What is mutual exclusion?
- 4. What is semaphores?
- 5. What all are the advantages of scheduling a process?
- 6. Define Deadlock.
- 7. What is internal fragmentation?
- 8. What is virtual memory?
- 9. Why we need disk scheduling?
- 10. List the attributes in the file control block.

 $(5 \times 5 = 25)$ 

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

11. (a) Discuss in detail the goals of operating system.

Or

- (b) Describe message passing system in Inter process communication.
- 12. (a) Explain Petersons solution in detail with appropriate code.

Or

- (b) Discuss in detail the hardware solution to mutual exclusion.
- 13. (a) Explain in detail the necessary and sufficient condition of deadlock?

Or

- (b) Explain what will happen if the time quantum of the round robin scheduling is very large? Give example
- 14. (a) Explain paging in detail with diagram.

Or

- (b) Discuss in brief the virtual memory management.
- 15. (a) Discuss in detail about hierarchy in file system.

Or

(b) Write a short note on file allocation methods?

F-6094

## Answer any **three** questions.

- 16. With neat diagram explain about various state of a process?
- 17. Explain about concurrent programming in detail.
- 18. Consider the following set of processes, with the length of the CPU-burst time given in Milliseconds.

Process	Burst time	Priority
$\mathbf{P}_1$	10	3
$P_2$	1	1
$P_3$	2	3
$P_4$	1	4
$P_5$	5	2

The processes are assumed to have arrived in the order  $P_1, P_2, P_3, P_4, P_5$  all at time 0. Draw Gantt charts llustrating the execution of these processes using FCFS,SJF and priority based scheduling algorithm.

- 19. Explain all the page replacement algorithms in detail.
- 20. Explain the various disk scheduling algorithm in detail.

F-6094

Sub. Code 7BCE5C2

# **B.Sc. DEGREE EXAMINATION, NOVEMBER 2021**

## Fifth Semester

# **Computer Science**

#### RELATIONAL DATABASE MANAGEMENT SYSTEMS

(CBCS - 2017 onwards)

Time: 3 Hours Maximum: 75 Marks

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

- 1. List few popular applications of DBMS.
- 2. What are attributes?
- 3. Define the term Domain.
- 4. What are the uses of functional dependencies?
- 5. What is distributed system?
- 6. Write the ACID properties.
- 7. List the table modification commands in SQL
- 8. Define Synonyms.
- 9. When is a declare statement required'?
- 10. What is a stored procedure?

 $(5 \times 5 = 25)$ 

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

11. (a) Write the purpose of database system.

Or

- (b) Write the role of Database users and administrators.
- 12. (a) Describe the features of good relational design.

Or

- (b) Briefly explain the database design process.
- 13. (a) Give a note on client server architecture.

Or

- (b) Compare Homogeneous and Heterogeneous databases.
- 14. (a) Write the syntax for table creation and give example.

Or

- (b) Discuss on user privileges and roles.
- 15. (a) Explain the uses of database triggers.

Or

(b) What is function in PL/SQL? Write simple function to calculate square of given number with the help of function parameters.

2

# Answer any three questions.

- 16. Draw an E-R diagram for college management system.
- 17. What is Normalization? Explain 1NF and 2NF.
- 18. Write a detailed note on I/O parallelism.
- 19. What is Data Integrity? Explain.
- 20. Explain about package with example.

F-6095

Sub. Code

7BCEE1A

# B.Sc. DEGREE EXAMINATION, NOVEMBER 2021.

## Fifth Semester

## **Computer Science**

## **Elective: DATA MINING AND DATA WAREHOUSING**

(CBCS - 2017 onwards)

Time: 3 Hours Maximum: 75 Marks

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

- 1. List out the kind of data repositories to perform the data mining task.
- 2. What is data warehouse?
- 3. State the role of Load Manager.
- 4. What is meant by Tuning?
- 5. What is data mining?
- 6. Explain the need of transactional database in Data mining.
- 7. What is statistical database?
- 8. List any two Neural Network algorithms for Data mining.
- 9. What is meant by frequent itemset mining?
- 10. Define Distributed Algorithms.

 $(5 \times 5 = 25)$ 

Answer all questions, choosing either (a) or (b).

11. (a) Explain in detail about the three-tier data warehouse architecture.

Or

- (b) Elucidate the typical process flow within a DWH.
- 12. (a) Elucidate the role of Process and Warehouse Managers.

Or

- (b) Confer the need of Accessing the Performance of Tuning the DWH.
- 13. (a) Discuss the impact of Datamining on social environment.

Or

- (b) Elucidate the steps of knowledge extraction from database.
- 14. (a) What are the differences between the OLTP and OLAP systems?

Or

- (b) Explain the basic algorithm of decision tree induction.
- 15. (a) Confer in specify on the varieties of patterns can be mined.

Or

(b) How the association rule mining could be performed on multidimensional data cubes.

2

# Answer any **three** questions.

- 16. Explain the working principle of Data warehouse delivery method.
- 17. Discuss the channel for Assessing Performance of DWH managers
- 18. Elucidate the Datamining metrics in detail.
- 19. Describe in detail about the Similarity measures on DM.
- 20. Explain the importance of Advanced Association rule techniques with examples.

Sub. Code

7BCEE1B

# **B.Sc. DEGREE EXAMINATION, NOVEMBER 2021.**

## Fifth Semester

## **Computer Science**

## Elective - WEB DESIGN

(CBCS - 2017 onwards)

Time: 3 Hours Maximum: 75 Marks

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

- 1. Write the format of HTML program.
- 2. Mention some text formatting tags.
- 3. What are embedded style sheets?
- 4. Give the syntax of CSS rule.
- 5. Why JavaScript has been called dynamically typed language?
- 6. What is the use of type of operator?
- 7. How to create a function in JavaScript?
- 8. What is the use of window object?
- 9. What is DOM?
- 10. Define Document Type Declaration.

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

Answer all questions, choosing either (a) or (b).

11. (a) Explain the use of tables in HTML.

Or

- (b) Write an HTML document to provide a form that collect name and telephone numbers.
- 12. (a) What is CSS? Differentiate between external and internal stylesheet.

Or

- (b) List and explain some primary CSS text properties.
- 13. (a) Illustrate increment and decrement operators with example.

Or

- (b) Give a note on break and continue statement.
- 14. (a) What is recursion? Give example.

Or

- (b) How to create an array in JavaScript?
- 15. (a) Write a note traversing and modifying a DOM tree.

Or

2

(b) Briefly explain XML Namespaces.

# Answer any **three** questions.

- 16. Explain various types of lists in HTML.
- 17. What are the types of CSS? Explain any two with example.
- 18. Write a JavaScript program to develop the arithmetic calculator.
- 19. Discuss about Math and String object in JavaScript.

20. Explain event bubbling with an example program.

Sub. Code 7BCEE2A

# **B.Sc. DEGREE EXAMINATION, NOVEMBER 2021**

#### Fifth Semester

## **Computer Science**

# Elective – DIGITAL PRINCIPLES AND COMPUTER ORGANIZATION

(CBCS - 2017 onwards)

Time: 3 Hours Maximum: 75 Marks

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

- 1. Convert 110102 to decimal number.
- 2. What is called Logic Gate?
- 3. Write any two Boolean Law.
- 4. What is called Encoder and Decoder?
- 5. Mention the rules for Binary Addition operation.
- 6. What is the Two's complement of 110101012?
- 7. What is meant by Register?
- 8. What is called Micro Programmed Control?
- 9. What is meant by Parallel Processing?
- 10. Define Auxiliary Memory.

Answer all questions, choosing either (a) or (b).

11. (a) Define Number System. Explain its type.

Or

- (b) Discuss the functionality of Universal Logic Gates.
- 12. (a) State and Prove Demorganlaws.

Or

- (b) Discuss the functionality of Multiplexers.
- 13. (a) Solve: (i)  $11101100_2 + 10001000_2$ 
  - (ii)  $11101100_2 10001000_2$

Or

- (b) Find one's complement of (i)  $11101100_2$  (ii)  $10001000_2$
- 14. (a) Describe in brief about Common Bus System.

Or

- (b) Discuss Symbolic Micro Instruction with ar example.
- 15. (a) What is Stack Organization? Brief it.

Or

(b) Write a note on I/O interface.

2

# Answer any **three** questions.

- 16. Explain ASCII code, Excess-3 code and Gray code in detail.
- 17. Describe the architecture of Seven- Segment Decoders.
- 18. Discuss about Arithmetic Building Blocks with a neat illustration.
- 19. What is Addressing? Explain it with an example.
- 20. Difference between CISC and RISC.

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Sub. Code 7BCE6C1

 $(10 \times 2 = 20)$ 

# B.Sc. DEGREE EXAMINATION, NOVEMBER 2021.

## Sixth Semester

## **Computer Science**

#### **COMPUTER NETWORKS**

(CBCS - 2017 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A

- 1. Which principles in used RF Id technology?
- 2. Define broad casting and multi- casting.
- 3. Draw the electro-magnetic sprecturem and its uses for communication.
- 4. Which principle is used in infrared transmission?
- 5. What is meant by byte stuffing.
- 6. Write the principle used in 'Selective Repeat' of handling errors.
- 7. What is meant by store- and forward packet switching?
- 8. What is meant by flooding?
- 9. Draw a portion of the internet domain name space.
- 10. What is meant by voice over IP?

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

Answer all questions, choosing either (a) or (b).

11. (a) Explain about protocol Hierchies in detail.

Or

- (b) Explain about the network hardware and network software.
- 12. (a) Explain about co-axial cable media.

Or

- (b) Explain about low earth orbit satellites in detail.
- 13. (a) Explain the static -channel allocation.

Or

- (b) Describe about wireless LAN protocols.
- 14. (a) Explain about the implementation of connection less service in network layer.

Or

- (b) Describe about Hierchical routing in detail.
- 15. (a) Describe about the SMTP protocol.

Or

(b) Describe about substitution ciphers in detail.

2

# Answer any three questions.

- 16. Describe the ISO and TCP/IP reference model.
- 17. Describe the structure of the telephone system.
- 18. Describe about sliding window protocols.
- 19. Explain about multiplexing and crash recovery.
- 20. Describe the principle of symmetric key algorthims.

F-6099

Sub. Code 7BCE6C2

# B.Sc. DEGREE EXAMINATION, NOVEMBER 2021.

## Sixth Semester

# **Computer Science**

## **COMPUTER GRAPHICS**

(CBCS – 2017 onwards)

Time: 3 Hours Maximum: 75 Marks

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

- 1. What is meant by line and line segment?
- 2. Define vector
- 3. How will you create polygons?
- 4. What are the display devices?
- 5. What are the types of transformations?
- 6. What is meant by inverse transformation?
- 7. What is meant by clipping?
- 8. What is the principle used in Sutherland Hodgman algorithm?
- 9. What are the input devices used in interaction.
- 10. What is meant by echoing?

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

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

11. (a) Explain about the Antialiasing lines.

Or

- (b) Write about the, display the frame Buffer.
- 12. (a) Explain about the flood fill, boundary fill algorithm.

Or

- (b) Explain the polygon Representations.
- 13. (a) Describe about the rotation in an arbitrary point.

Or

- (b) Describe the segment table in detail.
- 14. (a) Describe the Adding clipping to the system.

Or

- (b) Explain about the multiple windowing in detail.
- 15. (a) Explain the simulating a pick with a locator.

Or

(b) Explain the input – Device handling Algorithms in detail.

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

Answer any three questions.

- 16. Describe about the Bresenham's Algorithm.
- 17. Describe the display file interpreter a display file structure.

F-6100

- 18. Explain about co-ordinate transformations.
- 19. Explain about the cohen Sutherland clipping algorithm.
- 20. Describe about the sampled devices in detail.

Sub. Code 7BCE6C3

# B.Sc. DEGREE EXAMINATION, NOVEMBER 2021.

## Sixth Semester

## **Computer Science**

#### SOFTWARE ENGINEERING

(CBCS - 2017 onwards)

Time: 3 Hours Maximum: 75 Marks

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

- 1. What is meant by software engineering?
- 2. What are the size factors of the software?
- 3. Define: COCOMO model of software cost estimation.
- 4. What are the categories of formal specification techniques?
- 5. What is meant by modularization?
- 6. Define: Milestone-in software engineering.
- 7. What are the phases of system implementation process?
- 8. What is the need for quality assurence?
- 9. Why software maintenance is necessary?
- 10. What are the maintenance tools present in the software engineering?

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

Answer all questions, choosing either (a) or (b).

11. (a) Explain the productivity factors in developing a software product.

Or

- (b) Explain how you will plan a software development process.
- 12. (a) Explain the desirable properties that a software requirements specification should possess.

Or

- (b) How will you estimate the software maintenance costs?
- 13. (a) Explain about the structured English and structured flow charts in detail.

Or

- (b) Describe about structure in software design.
- 14. (a) What are the software quality assurance processes?

Or

- (b) Explain about the structured coding techniques.
- 15. (a) Explain the types of software maintenance in detail.

Or

(b) Explain about the configuration management.

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## Answer any **three** questions.

- 16. Describe the factors that influence the quality and productivity.
- 17. Describe about the expert judgement and Delphi cost estimation techniques in detail.
- 18. Describe about procedure templates and Psuedo code in detail.
- 19. Describe about the walk through and inspections.
- 20. Explain the software maintenance tools in detail.

Sub. Code 7BCEE3A

# B.Sc. DEGREE EXAMINATION, NOVEMBER 2021.

## Sixth Semester

# **Computer Science**

## Elective — VB.NET AND ASP.NET PROGRAMMING

(CBCS - 2017 onwards)

Time: 3 Hours Maximum: 75 Marks

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

- 1. What are the data types used in VB.NET?
- 2. Write the syntax of while loop.
- 3. Write the syntax for create picture boxes in VB.NET.
- 4. How will you create panels in VB.NET?
- 5. Write the syntax of file stream class.
- 6. What is meant by polymorphism?
- 7. Write the syntax of button web control.
- 8. Write the syntax of HTML anchor control.
- 9. Write the syntax for SQL select statement in ADO.NET.
- 10. Write the syntax of SQL update statement.

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

Answer all questions, choosing either (a) or (b).

11. (a) Explain the select case and switch statement with example.

Or

- (b) Explain about the sub procedures.
- 12. (a) Describe the tree and list views.

Or

- (b) Explain the rich text box and labels window control.
- 13. (a) Describe the pen class and brush class.

Or

- (b) Explain the file mode enumeration.
- 14. (a) Explain the types of list controls in ASP.NET.

Or

- (b) Explain the range validator control.
- 15. (a) Explain with syntax of ExcuteNonQuery () method.

Or

(b) Explain with syntax of SQL delete statement.

# Answer any **three** questions.

- 16. Explain about the unstructured exception handling.
- 17. How you will create checked list boxes.
- 18. Describe the graphics class with example.
- 19. Describe about the RICH CONTROLS (Add rotator and Calender).
- 20. Describe the characteristics of ADO.NET.

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Sub. Code 7BCEE3B

# B.Sc. DEGREE EXAMINATION, NOVEMBER 2021.

## Sixth Semester

## **Computer Science**

# Elective — PROGRAMMING WITH LINUX APACHE, MYSQL AND PHP (LAMP)

(CBCiS - 2017 onwards)

Time: 3 Hours Maximum: 75 Marks

 $\mathbf{Part}\,\mathbf{A} \qquad (10 \times 2 = 20)$ 

- 1. What are the operators used PHP programming?
- 2. Briefly define how PHP is installed on windows?
- 3. Write the syntax for create array using square brackets method.
- 4. How will you test the existence of a function?
- 5. Write the syntax for destroying the sessions.
- 6. Write the HTML and PHP code on a single page.
- 7. Draw a new image using PHP programming.
- 8. Write the syntax for create and delete files in PHP.
- 9. Write the MYSQL data types.
- 10. How will you connect MYSQL with PHP?

 $(5 \times 5 = 25)$ 

Answer all questions, choosing either (a) or (b).

11. (a) Describe the PHP constants in detail.

Or

- (b) Describe the Decision Making statements used in PHP.
- 12. (a) Describe how you will create objects in PHP.

Or

- (b) Describe the Built in functions used in PHP.
- 13. (a) Explain about the passing session IDs in the query string.

Or

- (b) How will you re-direct the user on form submission?
- 14. (a) Explain about reading or appending files in PHP with syntex code.

Or

- (b) Explain image creation from user input.
- 15. (a) Describe data and time functions in MYSQL.

Or

(b) What are the string functions used in MYSQL?

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

Answer any three questions.

- 16. How will you install apache web server?
- 17. Explain with syntax about dynamic function calls in PHP.

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- 18. Explain about sessions in an environment with registered users.
- 19. Describe the popen () functions in detail.
- 20. Write the syntax for create a table in MYSQL and give the example for select and update command.

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