

HINDI MAHAVIDYALAYA

(AUTONOMOUS & NAAC RE-ACCREDITED)

(Affiliated to Osmania University)

Nallakunta, Hyderabad



B.Sc. III YEAR SEMESTER V & VI
DEPARTMENT OF
COMPUTER SCIENCE
(2022-2023)

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
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Osmania University-Hyderabad

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Department of Computer Science
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2. Mrs.B Ramani
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3. Mrs. Srivally
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Nallakunta, Hyderabad-44.

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3. *Aravind Sharma* **Arts & Science College**

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
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DEPARTMENT OF COMPUTER SCIENCE
AGENDA OF THE MEETING

1. Welcome address by the chair.
2. Previous Meeting Details.
3. Details of choice-based credit system.
4. Discussion and Distribution of Common Core Syllabus for all the Semester (V & VI)
5. Marks allotted for internal and end semester exams.
6. Discussion on Pattern and model paper of Semester Exam and internal exam for all the Semester (V and VI).
7. Discussion on Practical exam model paper for all the Semester (V and VI)
8. Panel of Examiners
9. Any other matter
10. Vote of thanks

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2. *Kamali B*

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
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DEPARTMENT OF COMPUTER SCIENCE
BOARD OF STUDIES
Academic Year – 2022-2023
Minutes of BOS Meeting

BOS meeting of the Department of Computer science was held on 29/11/22
The following members were present

Prof. Dr.G.Kamala	-	Ex-Officio member-BOS
Prof.P.V.Sudha	-	Subject Expert, O.U
Mr. Avinash Pal Lidlaan	-	Member of BOS
Smt B.Ramani	-	Member of BOS
Mr.Aravind.Sharma	-	Member of BOS
Mrs.Srivally	-	Member of BOS

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Ramaw. B
PROFESSOR
Arts & Social Sciences
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O.U. Campus, Hyderabad-500 007

4.1 Welcome address by the chair

The chair welcomed the University Nominee, Chairperson BOS, O.U. Department of Computer Science and Member of B.O.S

4.2 Previous Meeting details

The CBCS system has been introduced by Osmania University from 2016-17. The theory and practical syllabus of I, II & III years of B.Sc., question paper pattern for theory and practical, internal assessment pattern, practical examination scheme and panel of examiners were discussed and approved by all the BOS Members in previous BOS meeting.

4.3 Details of choice-based credit system.

Members were informed that TSCHE has referred that from the academic year 2016-17 autonomous institutions have to follow CBCS i.e. From the Academic Year 2016-17 Osmania University has instructed all the Degree colleges including Autonomous Degree colleges to follow CBCS under which after passing the exam student will get the Grade in the Final Result.

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B.Sc.I YEAR SEM I & II AND II YEAR SEM III & IV 4 credits are given for the theory and 1 credit for practical in each semester and III YEAR in V and VI semester 3 credits are given for theory paper and 1 credit is given for practical in each semester.

4.4 Discussion and Distribution of Common Core Syllabus for semester V and VI.

1. Members were informed by the chair that Department of Computer Science, Hindi Mahavidyalaya is following common core syllabus prescribed by Osmania University B.Sc. III YEAR in V and VI semesters.
2. The syllabus comprises of 4 units.
3. Syllabus copy for both the semesters is enclosed.
4. Syllabus was approved by the Members of BOS.

4.5 Marks allotted for Internal and end Semester exams.

1. Internal assessment is of 30 marks and 5 marks assignment, 5 marks seminar. where students have to answer 20 MCQs in 25 minutes. Each question carries 1 mark. In each Semester two internal assessments of 20 Marks will be conducted and an average of both the internal assessments will be added in the marks of theory exam.
2. Theory Question paper is of 70 marks.
3. Total allotted marks are 100 for each theory paper DSC/DSE (A&B).
4. The distribution of marks was approved by the Members of BOS.

4.6 Discussion on Pattern and Model Paper of Semester exam and Model Paper of internal exam.


1. It was informed by the department that in each Semester Two Internal exams will be conducted for 20 marks. The internal assessment will have three sections.

Section – A 20 Multiple choice questions each carries 1 marks (20*1 =20M)

Section – B Assignment – 5 Marks

Section – C Seminar – 5 Marks

Average marks of these two internal exams will be taken.


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Osmania University
20/04/2019

2. Semester exam will be conducted as per the Almanac which will be provided by the exam branch. Internal exam duration will be 25 Min and Semester exam duration will be of 2½ hrs.

3. Model Question paper for Semester V and Semester VI was discussed. Theory paper for each Semester will have 2 sections.

i) Section A contains 8 short Questions. The student has to answer six questions. Each Question carries 3 Marks (6X3=18 Marks)

ii) Section B contains 4 Essay type Questions with internal choice. Each Question carries 13 Marks (4X13=52 Marks)

ii) Section B contains 2 Essay type Questions with internal choice. Each Question carries 15 Marks (2X10=20 Marks)

- Pattern of Model Theory Question Papers for DSC Paper V and Paper VI are enclosed.
- Pattern of Model Theory Question Papers for DSC was approved by Member of BOS

4. It was informed by the department that in each semester one internal exam will be conducted for GE of 15 marks. The internal assessment will have two sections

i) Section A 10 mcqs each carries 1mark(10*1=10m)

ii)section B Assignment/seminar-5marks

5. Model question paper of GE for Semester III and semester IV was discussed. Theory paper for each GE will have 2 sections

i) Section A contains 4 short Questions. The student has to answer THREE questions. Each question carries 5marks (3*5=15marks)

ii) Section B contains 2 Essay type Questions with internal choice. Each question carries 10marks(2*10=20marks)

4.7 Discussion on Practical Exam Model paper.

It was decided in BOS meeting that 25 Marks Practical Exam of 2 hrs will be held in each Semester (III & IV) and 1 credit will be given for Practical in each Semester.

- Pattern of Model Practical Question Papers for Paper III and Paper IV are enclosed.
- Pattern of Model Practical Question Papers was approved by Members of BOS

4.8 Panel of Examiners

The panel of examiners was approved by the members.

- List is enclosed

4.9 Any other matter.

4.10 Vote of Thanks

Meeting concluded with the Vote of Thanks by Mr. Avinash Pal Lidlaan

Chairperson

University Nominee

Members

Principal

Kamala
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[Signature]
Professor, HINDI MAHA VIDYALAYA
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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD (AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE

Academic Year – 2022-2023

B.Sc. (Computer Science) (MPCS/MSCS)
CBCS PATTERN IN SEMESTER SYSTEM-2020-2021

Course Title (Bsc-Mscs/Mpcs)	Hours/Week		Credits
	Theory	Practical	
Semester –I			
Programming in C	4	3	4+1 = 5
Semester –II			
Programming in C++	4	3	4+1 = 5
Fundamental of Computer (AECC)	2		2
Semester –III			
Data Structures using C++	4	3	4+1 = 5
Communication skills/Professional skills (SEC-I)	2		2
Python-I (SEC-II)	2		2
Semester –IV			
Data Base Management Systems (DBMS)	4	3	4+1 = 5
Leadership and management skills/universal human values (SEC III)	2		2
Python –II (SEC IV)	2		2
Semester –V			
Programming in Java	4	3	4+1=5
Information Technologies (GE)	4		4
Semester –VI			
Web Technologies	4	3	4+1=5
A. PHP with MY SQL	3	3	3+1=4
B. Major Project	4		4

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(AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE

Academic Year – 2020-2021

B.Sc. (Computer Science) (MPCS/MSCS)

CBCS PATTERN IN SEMESTER SYSTEM-2020-2021

3 rd YEAR SEMESTER –V					Semester end exams		Continuous internal evaluation		TOTAL	Practical 3hrs
Code	Course title	Course type	HPW	Credits	Duration in hrs	Marks	Exam duration	Marks		
BS506	Programming in Java	DSC-3E	4T+3P	4+1=5	2½	70	25MIN	30	100	25
BS501	Information Technologies (GE)	GE	4T	4	2½	70	25MIN	30	100	-

3 rd YEAR SEMESTER –VI					Semester end exams		Continuous internal evaluation		TOTAL	Practical 3hrs
Code	Course title	Course type	HPW	Credits	Duration in hrs	Marks	Exam duration	Marks		
BS606	Web Technologies	DSC-3F	4T+3P	4+1=5	2½	70	25MIN	30	100	25
BS601	A.PHP with MY SQL	Project/ optional	3T+3P	3+1=4	2½	70	25MIN	30	100	25
	B. Major Project		4H	4		70	25MIN	30	100	-

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
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B.Sc. (Computer Science) –III YEAR SEMESTER-V
Paper-V Programming in Java

Code: BS506
HPW-4T+3P

DSC-3E
credits-4T+1P

OUTCOMES:

- Understand Java programming concepts and utilize Java Graphical User Interface in program writing.
- Write, compile, execute and troubleshoot Java programming for networking concepts.
- Build Java Application for a distributed environment.
- Design and Develop multi-tier applications.
- Identify and Analyse Enterprise applications.

Unit - I

Introduction to OOP, procedural programming language and object-oriented language, principles of OOP, applications of OOP, history of java, java features, JVM, program structure. Variables, primitive data types, identifiers, literals, operators, expressions, precedence rules and associativity, primitive type conversion and casting, the flow of control, creation and execution of programs, conditional statements, loops, classes, objects, class declaration, creating objects.

Unit - II

Method declaration and invocation, method overloading, constructors – parameterized constructors, constructor overloading, cleaning-up unused objects. class variables & method-static keyword, this keyword, one-dimensional arrays, two-dimensional arrays, command-line arguments, inner class.

Inheritance: introduction, types of inheritance, extends keyword, examples, method overriding, super, final keyword, abstract classes, interfaces, abstract classes verses interfaces.

Packages: creating and using packages, access protection, wrapper classes, string class, string buffer class.

Unit - III

Exception: Introduction, Types, Exception Handling Techniques, User-Defined Exception. Multithreading: Introduction, Main Thread and Creation of New Threads –By Inheriting the Thread Class or Implementing the Runnable Interface, Thread Lifecycle, Thread Priority and Synchronization.

Input/Output: Introduction, java.io Package, File Streams, FileInputStream Class, FileOutputStream Class, Scanner Class, BufferedInputStream Class, BufferedOutputStream Class, RandomAccessFile Class.

Unit - IV

Applets: Introduction, Example, Life Cycle, Applet Class, Common Methods Used in Displaying the Output (Graphics Class).

Event Handling: Introduction, Types of Events, Example.

AWT: Introduction, Components, Containers, Button, Label, Checkbox, Radio Buttons, Container Class, Layouts.

Swings: Introduction, Differences between Swing and AWT, JFrame, JApplet, JPanel, Components in Swings, Layout Managers, JTable.

Text Book:

1. Sachin Malhotra, Saurabh Choudhary, Programming in Java (2e) ____
2. The complete Reference Java, 8th edition, Herbert Schildt, TMH ____

References:

1. Bruce Eckel, Thinking in Java (4e)
2. Herbert Schildt, Java: The Complete Reference (9e)
3. Y. Daniel Liang, Introduction to Java Programming (10e) ____
4. Paul Deitel, Harvey Deitel, Java: How To Program (10e) ____
5. Cay S. Horstmann, Core Java Volume I – Fundamentals (10e) ____

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
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B.Sc. (Computer Science) –III YEAR SEMESTER-V
Programming in Java Lab

Practical 3 Hours/Week 1

Credit Marks: 25

Note:

- Programs of all the Concepts from Text Book including exercises must be practice and execute.
- In the external lab examination student has to execute two programs with compilation and deployment steps are necessary.
- External Vice-Voce is compulsory.

1. Write a program to find the largest of n natural numbers.
2. Write a program to find whether a given number is prime or not.
3. Write a menu driven program for following:
 - a. Display a Fibonacci series
 - b. Compute Factorial of a number
4. Write a program to check whether a given number is odd or even.
5. Write a program to check whether a given string is palindrome or not.
6. Write a program to print the sum and product of digits of an Integer and reverse the Integer.
7. Write a program to create an array of 10 integers. Accept values from the user in that Array. Input another number from the user and find out how many numbers are equal to the number passed, how many are greater and how many are less than the number passed.
8. Write a program that will prompt the user for a list of 5 prices. Compute the average of the prices and find out all the prices that are higher than the calculated average.
9. Write a program in java to input N numbers in an array and print out the Armstrong numbers from the set.
10. Write java program for the following matrix operations:
 - a. Addition of two matrices
 - b. Transpose of a matrix
11. Write a java program that computes the area of a circle, rectangle and a Cylinder using function overloading.
12. Write a Java program for the implementation of multiple inheritance using Interfaces to calculate the area of a rectangle and triangle.

13. Write a java program to create a frame window in an Applet. Display your name, address and qualification in the frame window.

14. Write a java program to draw a line between two coordinates in a window.

15. Write a java program to display the following graphics in an applet window.

- a. Rectangles b. Circles
- c. Ellipses d. Arcs e. Polygons

16. Write a program that reads two integer numbers for the variables a and b. If any Other character except number (0-9) is entered then the error is caught by NumberFormatException object. After that ex.getMessage () prints the information about the error occurring causes.

17. Write a program for the following string operations:

- a. Compare two strings b. concatenate two strings c. Compute length of a string

18. Create a class called Fraction that can be used to represent the ratio of two integers. Include appropriate constructors and methods. If the denominator becomes zero, throw and handle an exception.

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
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B.Sc. (Computer Science) –III YEAR SEMESTER-V
(General Elective)
Information Technologies

Theory - 4 Hours/Week

4-Credits

Unit – I

Computer Networks: Introduction, Connection Media, Data Transmission Mode, Data Multiplexing, Data Switching, Network Topologies, Types of Networks, Networking Devices, OSI Model.

The Internet: Internet Services, Types of Internet Connections, Internet Security.

Unit – II

Introduction to Emerging Computer Technologies: Distributed Networking, Peer-to-peer Computing, Grid Computing, Cloud Computing, Utility Computing, On-demand Computing, Wireless Network, Bluetooth, Artificial Intelligence.

Unit – III

Email, Functions of Email, Browser, Web Browser, Internet Service Providers.

Introduction to Information Security – Need for Information Security, Threats to Information Systems, Information Assurance, Cyber Security.

Unit – IV

Introduction to Application Security and Counter Measures – Introduction to Application Security, Data Security Considerations, Security Technologies, Security Threats, Security Threats to ECommerce, E-Cash and Electronic Payment System.

Textbooks:

Dr. Surya Prakash T, Ritendra G, Praveen Kumar S, KLSI, Introduction to Information Security and Cyber Laws (Dreamtech Publication)

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B.Sc. (Computer Science) –III YEAR SEMESTER-VI

Paper-VI
Web Technologies

Code: BS606
HPW-4T+3P

DSC-3F
Credits-4T+1P

Unit – I

Introduction to web technology, HTML, types of HTML, tags-basic Structure of HTML, Web design principles, An over view of dynamic web pages technologies: Introduction to Dynamic HTML programming, Introduction To XHTML– Introduction, first HTML, Headings, Linking, Images, special characters and horizontal rules, Lists, Tables, Frames, Forms, internal linking, meta Elements. CASCADING STYLE SHEETS – Introduction, Inline Styles, Embedded Style Sheets, Conflicting Styles, linking external sheets, position Elements, box model and text flow, media types, building a CSS drop-down menu, user style sheets, CSS3.

Unit – II

Introduction to Java Scripting- introduction, simple program, prompt dialog and alert boxes, memory concepts, operators, decision making, control structures, if... else statement, while, counter-controlled repetitions, switch statement, do... while statement, break and continue statements. Functions – program modules in JavaScript, programmer–defined functions, functions definition, scope rules, global functions, Recursion.

Unit – III

Arrays- introduction, declaring and allocating arrays, references and reference parameters, passing arrays to functions. Multidimensional arrays, events – registering event handling, event onload, onmouseover, onmouseout, onfocus, onblur, onsubmit, onreset, event bubbling, more events. Java script objects – introduction to object technology, math object, string object, date object, boolean and number object, document and window objects, using cookies.

Unit – IV

XML - Introduction, XML Basics, Structuring Data, XML Namespaces, Document Type Definitions (DTDs), W3C XML Schema Documents, XML Vocabularies, Extensible Style sheet Language and XSL Transformations, Document Object Model (DOM).

Ajax-Enabled Rich Internet Applications: introduction, history of Ajax, traditional web applications Vs Ajax Applications, RIAs with Ajax, Ajax example using XMLHttpRequest object, XML and DOM, creating full scale Ajax-enabled application, Dojo Toolkit.

Textbook:

1. Internet & World Wide Web: HOW TO PROGRAM- H. M. Deitel, P.J. Deitel, Fourth Edition- Pearson edition.
2. Web Technology- Indrakanti Sekhar, V.N. Battu, Himalaya Publishers

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc. (Computer Science) –III YEAR SEMESTER-VI
Paper-VI (Practical/Laboratory)
Web Technologies Lab

Code: BS606
Credits-1

HPW-3
Marks: 25

1. Write a HTML program using basic text formatting tags, <p>,
, <pre>.
2. Write a HTML program by using text formatting tags.
3. Write a HTML program using presentational element tags , <i>, <strike>, <sup>, <sub>, <big>, <small>, <hr>
4. Write a HTML program using phrase element tags <blockquote>, <cite>, <abbr>, <acronym>, <kbd>, <address>
5. Write a HTML program using different list types.
6. Create a HTML page that displays ingredients and instructions to prepare a recipe.
7. Write a HTML program using grouping elements <div> and .
8. Write a HTML Menu page for Example cafe site.
9. Write a HTML program using images, audios, videos.
10. Write a HTML program to create your time table.
11. Write a HTML program to create a form using text inputs, password inputs, multiple line text input, buttons, check boxes, radio buttons, select boxes, file select boxes.
12. Write a HTML program to create frames and links between frames.
13. Write a HTML program to create different types of style sheets.
14. Write a HTML program to create CSS on links, lists, tables and generated content.
15. Write a HTML program to create your college web site using multi column layouts.
16. Write a HTML program to create your college web site using for mobile device.
17. Write a HTML program to create login form and verify username and password.
18. Write a JavaScript program to calculate area of rectangle using function.
19. Write a JavaScript program to wish good morning, good afternoon, good evening depending on the current time.
20. Write a JavaScript program using switch case?

21. Write a JavaScript program to print multiplication table of given number using loop.
22. Write a JavaScript programs using any 5 events.
23. Write a JavaScript program using JavaScript built in objects.
24. Write a JavaScript program to create registration Form with Validations.
25. Write a XML Program to represent Student Data using DTD.
26. Write a XML Program to represent Data using XML Schema Definition.

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Kamala
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B.Sc. (Computer Science) –III YEAR SEMESTER-VI

PHP with MY SQL
(PROJECT/OPTIONAL)

Theory -3 Hours/Week

3 Credits

Unit – I

Introducing PHP – What is PHP? Why use PHP? Evolution of PHP, Installing PHP, Other ways to run PHP, Creating your first script. PHP Language Basics – Using variables, Understanding Data Types, Operators and Expressions, Constants. Decisions and Loops – Making Decisions, Doing Repetitive Tasks with Looping, Mixing Decisions and Looping with HTML.

Strings – Creating and Accessing Strings, Searching Strings, Replacing Text with Strings, Dealing with Upper and Lowercase, Formatting Strings.

Arrays – Creating Arrays, Accessing Array Elements, Looping through Arrays with for-each, Creating Function, Reading Data in Web pages: setting up web pages to communicate with PHP, Handling Text Fields, Text Areas, Checkboxes, Radio Buttons, List Boxes, Password Controls, Image Maps, File Uploads, Buttons, and PHP Browser.

Unit – II

Object oriented programming: creating Classes and objects, setting access to properties and methods, constructors, destructors, Inheritance, overriding and overloading methods, auto loading classes.

Advanced OOP: Static members and inheritance, Abstract classes, Interfaces, object iteration, comparing objects, class constants, final keyword, reflection.

File Handling: fopen, feof, fgets, closing a file, fgetc, file_get_contents, reading a file into an array with file, file_exists, filesize, fread, fscanf, parse_ini_file, stat, fseek, copy, unlink, fwrite, reading and writing binary files, appending a file, file_put_contents, locking files

Unit – III

Introducing Databases and SQL – Deciding How to Store Data, Understanding Relational Databases, Setting Up MySQL, A Quick Play with MySQL, Connecting MySQL from PHP. Retrieving Data from MySQL with PHP, Retrieving Data with SELECT, Creating a Member Record Viewer.

Manipulating MySQL Data with PHP – Inserting, Updating, and Deleting Records, Building a Member Registration Application. Sessions, Cookies and FTP.

Textbooks:

1. Steven Holzner, "PHP: The Complete Reference Paperback", McGraw Hill Education (India), 2007.

2. Timothy Boronczyk, Martin E. Psinas, "PHP and MYSQL (Create-Modify-Reuse)", Wiley India Private Limited, 2008.

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)

B.Sc. (Computer Science) –III YEAR SEMESTER-VI
(Practical/Laboratory)

PHP with MY SQL Lab (PROJECT/OPTIONAL)

Code: BS601

Credits-1

HPW-3

Marks: 25

Note:

Programs of all the Concepts from Textbook including exercises must be practice and execute.
External Vice-Voce is compulsory.

1. Write a PHP script to display the Fibonacci sequence with HTML page.
2. Write a PHP script to create a chess board.
3. Write a PHP script using built-in string function like strstr(), strpos(), substr_count(), etc...
4. Write a PHP script to transform a string to uppercase, lowercase letters, make a string's first Character uppercase.
5. Write a PHP script to count number of elements in an array and display a range of array elements.
6. Write a PHP script using a function to display the entered string in reverse.
7. Write a PHP script to demonstrate inheritance.
8. Write a PHP script to demonstrate the object overloading with _get(), _set(), and _call().
9. Write a PHP script to demonstrate the method overloading and method overriding mechanisms.
10. Write a PHP script to demonstrate the use of final classes and final methods.
11. Write a PHP script to demonstrate the use of interfaces.
12. Write a PHP script using constructors and destructors.
13. Write a PHP application to handling HTML forms with PHP script.
14. Write a PHP script to create a file, write data into file and display the file's data.
15. Write a PHP script to check and change file permissions, copying, renaming and deleting files.
16. Write a PHP application for connecting to MySQL and reading data from database table.
17. Write a PHP application for inserting, updating, deleting records in the database table.
18. Develop a PHP application for student registration form.
19. Develop a PHP application for creating, updating, reading and deleting the Student records from MYSQL Database.

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc. (Computer Science) –III YEAR SEMESTER-VI
Major Project
(PROJECT/OPTIONAL)

Project work

Credits: 4

Theory: 4 Hours/Week

- The total allotted marks 100 are divided into the following way
- Internal Assessment (20 marks)
- First seminar (10 marks – in between 25 to 30 days after commencement of class work) This seminar includes the study of existing system, literature survey, problem definition.
- Second seminar (10 marks – in between 55 to 60 days after commencement of class work) This seminar includes the requirements specification, analysis, design and partial implementation.
- External Assessment (80 marks)
- The students should submit one page of synopsis on the project work for display on the notice board.
- The project presentation is for 10 minutes followed by 05 minutes for discussion.
- The student should submit a technical write-up on the project.

At least two teachers will be associated with the project seminar to evaluate students for the award of sessional marks which will be based on performance in all the 3 items (synopsis, presentation, technical write-up).

Dissertation 50M

Presentation 15M

Viva 15M

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)

B.Sc - III Year
Semester –V & VI
Computer Science Paper – V & VI
Scheme of Model Question Paper

Time: 2 ½ hrs

Semester Exam Pattern

Max.Marks : 100

70 Marks

Section –A – 8 Short Answer Questions-Answer any 6
Each Question carries 3 Marks.

6 X 3 = 18 Marks

Section – B—4 Long Answer Questions-With Internal Choice
Each Question carries 13 Marks

4 X 13 = 52 Marks

Total=70 Marks

Internal Assessment Pattern

30 Marks

Duration - 20 Minutes

In Internal Assessment there will be

20 Multiple Choice Questions

20X1 = 20 Marks

Two internals will be conducted and average of these two is considered.

Assignment

5 Marks

Seminar

5Marks

Total Internal Assessment Marks

30 Marks

Practical Exam pattern

Max Marks:25

Duration:3hrs

Program execution

7.5X2=15marks

4 practical question-Attempt any two each carries 7.5marks

Record

5marks

Viva

5marks

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**HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)**

**B.Sc Computer Science-III Year
Semester – V/VI-Paper – V/VI
Theory Model Question Paper**

Time: 2 ½ hrs

Max. Marks: 70

SECTION A

I Write short notes on any Six of the following:

6 X 3 = 18 Marks

1. A question from Unit I
2. A question from Unit I
3. A question from Unit II
4. A question from Unit II
5. A question from Unit III
6. A question from Unit III
7. A question from Unit IV
8. A question from Unit IV

SECTION B

II Answer all the Questions. Each question carries 13 marks

4 X 13 = 52 Marks

- 9 (a) A question from Unit I
(OR)
(b) A question from Unit I
- 10 (a) A question from Unit II
(OR)
(b) A question from Unit II .
- 11 (a) A question from Unit III.
(OR)
(b) A question from Unit III.
- 12 (a) A question from Unit IV
(OR)
(b) A question from Unit IV.

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ANDHRA PRADESH
Nallakunta, Hyderabad-44, T.S.**

**1. Kama Sutra
2. Kama Sutra
3. Kama Sutra
4. Kama Sutra**

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)

B.Sc Computer Science-III Year
Semester – V/VI Paper – V/VI
Practical Model Question Paper

Time:3 hrs

Max. Marks: 25

I. Answer any two questions:

1. program 1.
2. program 2
3. program 3
4. program 4

Program execution

(15 Marks)

II. Record

(5 Marks)

III. Viva

(5 Marks)

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)

B.Sc Computer Science-III Year
Semester – V/VI- Paper (GE)
Theory Model Question Paper

Time: 1 ½ hrs

Max. Marks: 35

SECTION A

I Write short notes on any THREE of the following:

5 X 3 = 15 Marks

1. A question from Unit I
2. A question from Unit I
3. A question from Unit II
4. A question from Unit II

SECTION B

II Answer all the Questions. Each question carries 13 marks

2X 10 = 20 Marks

- 9 (a) A question from Unit I
(OR)
(b) A question from Unit I

- 10 (a) A question from Unit II
(OR)
(b) A question from Unit II.

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)

B.Sc Computer Science-III Year
Semester – V Paper – V
Programming in Java
Theory Model Question Paper

Time: 2 ½ hrs

Max. Marks: 70

SECTION A

6 X 3 = 18 Marks

I Write short notes on any Six of the following:

1. How to reverse a String in Java?
2. How to swap two numbers without using a third variable?
3. What is Java?
4. Why is Java not a pure object oriented language?
5. Difference between Heap and Stack Memory in java. And how java utilizes this.
6. Can java be said to be the complete object-oriented programming language?
7. How is Java different from C++?
8. Write about java features.

SECTION B

II Answer all the Questions. Each question carries 13 marks

4 X 13 = 52 Marks

- 9 (a) What are the default values assigned to variables and instances in java?
(OR)
(b) What do you mean by data encapsulation?
- 10 (a) How is an infinite loop declared in Java?
(OR)
(b) Briefly explain the concept of constructor overloading
- 11 (a) Define Copy constructor in java.
(OR)
(b) Can the main method be Overloaded?
- 12 (a) Comment on method overloading and overriding by citing relevant examples.
(OR)
(b) A single try block and multiple catch blocks can co-exist in a Java Program. Explain.

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)

B.Sc Computer Science-III Year
Semester – V Paper – V

Programming in Java
Practical Model Question Paper

Max. Marks: 25

Time: 3 hrs

I. Answer any two questions:

1. Write a program to find the largest of n natural numbers.
2. Write a program to find whether a given number is prime or not.
3. Write a menu driven program for following:
 - a. Display a Fibonacci series
 - b. Compute Factorial of a number
4. Write a program to check whether a given number is odd or even.

Program execution

II. Record

III. Viva

(15 Marks)

(5 Marks)

(5 Marks)

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc Computer Science-III Year
Semester – VI Paper – VI
Web Technologies
Theory Model Question Paper

Time: 2 ½ hrs

Max. Marks: 70

SECTION A

I Write short notes on any Six of the following:

6 X 3 = 18 Marks

1. What are the CSS Box Model and its components?
2. What is the difference between undefined value and Null value in JavaScript?
3. Mentions the APIs which are approved by HTML5 recently?
4. How JavaScript handles automatic type conversion of variables?
5. What is the difference between session storage and local storage objects in HTML?
6. What are the different types of popup boxes available in JavaScript?
7. What is the difference between Canvas and SVG?
8. What are the new form elements in HTML5?

SECTION B

II Answer all the Questions. Each question carries 13 marks **4 X 13 = 52 Marks**

9 (a) How to specify the base URL for all relative URLs in a document using HTML5?
(OR)

(b) How to set the height and width of the video player in HTML5 ?

10 (a) What is the difference between SCSS and SASS ?
(OR)

(b) How to put an input element on the same line as its label?

11 (a) How to get value of selected radio button using JavaScript?
(OR)

(b) How to convert JSON string to array of JSON objects using JavaScript ?

12. (a) How to use Checkbox inside Select Option using JavaScript ?
(OR)

(b) How to stop browser back button using JavaScript ?

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc Computer Science-III Year
Semester – VI Paper – VI
Web Technologies
Practical Model Question Paper

Max. Marks: 25

Time: 2 hrs

I. Answer any two questions

(15 Marks)

1. Write a HTML program using basic text formatting tags, <p>,
, <pre>.
2. Write a HTML program by using text formatting tags.
3. Write a HTML program using presentational element tags , <i>, <strike>, <sup>, <sub>, <big>, <small>, <hr>
4. Write a HTML program using phrase element tags <blockquote>, <cite>, <abbr>, <acronym>, <kbd>, <address> Program execution

II. Record

(5 Marks)

III. Viva

(5 Marks)

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3. ...

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Nallakunta, Hyderabad-44. T.S.

C. B. ...

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc Computer Science-III Year
PHP with MY SQL (PROJECT/OPTIONAL)
Theory Model Question Paper

Time: 2 ½ hrs

Max. Marks: 70

SECTION A

I Write short notes on any Six of the following:

6 X 3 = 18 Marks

1. How to fill all input fields automatically from database by entering input in one textbox using PHP ?
2. How to get the current file name using PHP script ?
3. What is the difference between self and \$this ?
4. How to pop an alert message box using PHP ?
5. How to call PHP function on the click of a Button ?
6. How to Upload Image into Database and Display it using PHP ?
7. How to execute PHP code using command line ?
8. How to pass JavaScript variables to PHP ?

SECTION B

II Answer all the Questions. Each question carries 13 marks **4 X 13 = 52 Marks**

9. (a) How to Encrypt and Decrypt a PHP String ?
(or)
(b) How to get parameters from a URL string in PHP ?
10. (a) How to declare a global variable in PHP ?
(or)
(b) How to display logged in user information in PHP ?
11. (a) How to parse a CSV File in PHP ?
(or)
(b) How to Insert Form Data into Database using PHP ?
12. (a) How to read user or console input in PHP ?
(or)
(b) How to encrypt and decrypt passwords using PHP ?

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(AUTONOMOUS)
B.Sc Computer Science-III Year
Semester – VI
PHP with MY SQL (PROJECT/OPTIONAL)
Practical Model Question Paper

Time: 2 hrs

Max. Marks: 25

I. Answer any two questions

1. Write a PHP script to display the Fibonacci sequence with HTML page.
2. Write a PHP script to create a chess board.
3. Write a PHP script using built-in string function like strstr(), strpos(), substr_count(), etc...
4. Write a PHP script to transform a string to uppercase, lowercase letters, make a string's first Character uppercase.

Program execution

(15 Marks)

II. Record

(5 Marks)

III. Viva

(5 Marks)

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(AUTONOMOUS)**

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Panel of Examiners**

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2	Smt G. Aparna Asst. prof. Dept of Computer Science AMS, O.U Campus, Hyderabad	9440137700
3	Smt N. Veena Asst. prof. Dept of Computer Science Nizam college, Hyderabad	9849743764
4	Smt Sunitha Asst. prof. Dept of Computer Science Koti Women College, Hyderabad	9951944377
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9	Ms. Vijitha Asst. prof. Dept of Computer Science Keshav memorial, Narayanguda, Hyderabad	9640508855
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