HINDI MAHAVIDYALAYA

(AUTONOMOUS & NAAC RE-ACCREDITED)

(Affiliated to Osmania University)

Nallakunta, Hyderabad

B.Sc. I YEAR SEMESTER I & II

DEPARTMENT OF COMPUTER SCIENCE

(2020-2021)/19-20

स्थापना : 1961

हिन्दी महाविद्यालय

(स्वायत्त एवं NAAC-पुनर्मूल्यांकित)
(कला, वाणिज्य, विज्ञान तथा स्नातकोत्तर केन्द्र)
(उस्मानिया विश्वविद्यालय से सम्बद्ध)
नल्लाकुंटा, हैदराबाद - 500 044

Off : 040-2761 633
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Hindi Mahavidyalaya

(AUTONOMOUS & NAAC-REACCREDITED)
(Arts, Commerce, Science and P.G. Centre)
(Affiliated to Osmania University)
Nallakunta, Hyderabad - 500 044

Website : www.hindimahavidyalaya.org
E-mail : info@hindimahavidyalaya.org

Dr. Y. V.Rao, MBA, M.Phil., D.C.R.S., Ph.D.
Principal

संदर्भ / Ref. :

दिनांक / Date : 31/3/2021

To
Dr. P.V.Sudha
Subject Expert - BOS
Department of Computer Science & Engg.
Osmania University.

Sir,

Sub: Invitation for Board of studies meeting - reg.

We are happy to inform you that Hindi Mahavidyalaya has been sanctioned autonomous status for a period of Five years, from 2018 to 2023. In this regard B.Sc.(MPCs/MSCs)– I year (I&II semester syllabus) are to be ratified in the Board of Studies meeting. We have constituted Board of Studies as per the UGC norms duly ratified by Osmania University with your consent on 31/3/2021.

You are requested to attend the meeting as **subject expert - BOS** and approve the same.

Thanking You,

Yours faithfully,

PRINCIPAL

P.V. Sudha

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
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 (I and II)
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 (I and II)
7	Discussion on Practical exam model paper for all the Semester (I and II)
8	Panel of Examiners
9	Any other matter
10	Vote of thanks

Chairperson

University Nominee

3/4/24

Members

1. P.V.

2. Ramaw.D

3.

Principal

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
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BOARD OF STUDIES
Department of Computer science

Chairperson
Ms.Haseena Begum
Head-department of computer science
Hindi Mahavidyalaya
Nallakunta,Hyderabad

University Noimnee
Dr G..Kamala
Chair Person
Ex-officio member-BOS
Department of Computer Science
Osmania university,Hyderabad

Members of BOS
1.Professor.P.V.Sudha
Subject Expert
Department of Computer Science
Osmania university,Hyderabad

2.Mrs.B.Ramani
Subject expert
Andhra MahilaSabhaArts and science college
Osmania university,Hyderabad

3.Mrs M.Sandhya Rani
Lecturer in computer science
Hindi Mahavidyalaya
Nallakunta, Hyderabad

4.Mrs.Srivally
Lecturer in computer science
Hindi Mahavidyalaya
Nallakunta, Hyderabad

5.Mr.Aravind Sharma
Industry expert

Alumini

Chairperson **University Nominee** **Members** **Principal**

1. P.V.
2. Ramani B
3.

3/4/24

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
DEPARTMENT OF COMPUTER SCIENCE
BOARD OF STUDIES
Academic Year – 2020-2021
Minutes of BOS Meeting

BOS meeting of the Department of Computer science was held on ...31/2/2021.....
The following members were present

Prof. Dr.G.Kamala	-	Ex-Officio member-BOS
Prof.P.V.Sudha	-	Subject Expert, O.U
Smt B.Ramani	-	Member of BOS
Mr.Aravind Sharma	-	Member of BOS
Ms.Haseena Begum	-	Member of BOS
Mrs.M.Sandhya Rani	-	Member of BOS
Mrs.Srivally	-	Member of BOS

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 & IIIyears 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. B.Sc. 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 I and II.

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. I YEAR in I and II 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).

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.

2. It was informed by the department that in each Semester one Internal exams will be conducted for AECC of 15 marks. The internal assessment will have two sections.

Section – A	10 Multiple choice questions each carries 1 marks (10*1 =10M),
Section – B	Assignment/seminar – 5 Marks

3.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.

4. Model Question paper for Semester I and Semester II 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)

5. Model Question paper ofAECC for Semester I and Semester II was discussed. Theory paper for each AECC.will have 2 sections.

i) Section A contains 4 short Questions. The student has to answer THREE questions.

Each Question carries 5 Marks (3X5=15 Marks)

ii) Section B contains 2 Essay type Questions with internal choice. Each Question carries 10 Marks (2X10=20 Marks)

- Pattern of Model Theory Question Papers for DSC and AECC Paper I and Paper II are enclosed.
- Pattern of Model Theory Question Papers for DSC and AECC was approved by Member of BOS

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 (I & II) and 1 credit will be given for Practical in each Semester.

- Pattern of Model Practical Question Papers for Paper I and Paper II 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 Ms. Haseena Begum

Chairperson	University Nominee	Members	Principal
Haseena Begum	3/4/24	1. P.V. Sridevi 2. Ramana.B 3.	

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD

(AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE

Academic Year – 2020-2021

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

CBCS PATTERN IN SEMESTER SYSTEM-2020-2021

FIRST YEAR SEMESTER –I					Semester end exams		Continuous internal evaluation		TOTAL	Practical 2hrs
Code	Course title	Course type	HPW	Credits	Duration in hrs	Marks	Exam duration	Marks		
BS101	ENVIRONMENTAL STUDIES	AECC-1	2	2	1 ½	35	15MIN	15	50	
BS102	ENGLISH-1	CC-1A	4	4	2½	70	25MIN	30	100	
BS103	SECOND LANGUAGE-I	CC-1A	4	4	2½	70	25MIN	30	100	
BS104	MATHEMATICS-I	DSC-1A	4T+3P	4+1=5	2½	70	25MIN	30	100	25
BS105	PHYSICS/STATISTICS-I	DSC-2A	4T+3P	4+1=5	2½	70	25MIN	30	100	25
BS106	PROGRAMMING IN C	DSC-3A	4T+3P	4+1=5	2½	70	25MIN	30	100	25
			31	25		385		165	550	75

Data Structures DSC-2C 4T+3P 5

DBMS DSC-3D 4T+3P

FIRST YEAR SEMESTER –II					Semester end exams		Continuous internal evaluation		TOTAL	Practical 2hrs
Code	Course title	Course type	HPW	Credits	Duration in hrs	Marks	Exam duration	Marks		
BS201	FUNDAMENTALS OF COMPUTER(BSC(MPCS,MSCS,MPC)/BASIC COMPUTER SKILLS(B.A/BCOM/ BCOM(CA)/BSC(BTMBC,MBBCC))	AECC-2	2	2	1 ½	35	15MIN	15	50	
BS202	ENGLISH-II	CC-1B	4	4	2½	70	25MIN	30	100	
BS203	SECOND LANGUAGE-II	CC-2B	4	4	2½	70	25MIN	30	100	
BS204	MATHEMATICS-II	DSC-1B	4T+3P	4+1=5	2½	70	25MIN	30	100	25
BS205	PHYSICS/STATISTICS-II	DSC-2B	4T+3P	4+1=5	2½	70	25MIN	30	100	25
BS206	PROGRAMMING IN C++	DSC-3B	4T+3P	4+1=5	2½	70	25MIN	30	100	25
			31	25		385		165	625	75

Chairperson

University Nominee

3/4/24

Members

1. P.V. Sudha

2. Ramesh

Principal

3.

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD

(AUTONOMOUS)

B.Sc. I Year Semester – I

Computer Science

Paper –I

Programming in C

Code: BS106 DSC-3A

HPW-4T+3P credits-4T+1P

Unit I

Computer Fundamentals: Introduction of Computers, Classification of Computers, Anatomy of a Computer, Memory Hierarchy, Introduction to OS, Operational Overview of a CPU.
Program Fundamentals: Generation and Classification of Programming Languages, Compiling, Interpreting, Loading, Linking of a Program, Developing Program, Software Development.
Algorithms: Definitions, Different Ways of Stating Algorithms (Step-form, Pseudo-code, Flowchart), Strategy for Designing Algorithms, Structured Programming Concept.
Basics of C: Overview of C, Developing Programs in C, Parts of Simple C Program, Structure of a C Program, Comments, Program Statements, C Tokens, Keywords, Identifiers, Data Types, Variables, Constants, Operators and Expressions, Expression Evaluation–precedence and associativity, Type Conversions.

Unit – II

Input-Output: Non-formatted and Formatted Input and Output Functions, Escape Sequences,
Control Statements: Selection Statements – if, if-else, nested if, nested if-else, comma operator, conditional operator, switch; Iterative Statements–while, for, do-while; Special Control Statement–goto, break, continue, return, exit.
Arrays and Strings: One-dimensional Arrays, Character Arrays, Functions from ctype.h, string.h, Multidimensional Arrays.

Unit – III

Functions: Concept of Function, Using Functions, Call-by-Value Vs Call-by-reference, Passing Arrays to Functions, Score of Variables, Storage Classes, Inline Functions, and Recursion.
Pointers: Introduction, Address of Operator (&), Pointer, Uses of Pointers, Arrays and Pointers, Pointers and Strings, Pointers to Pointers, Array of Pointers, Pointer to Array, Dynamic Memory Allocation.

Unit – IV

User-defined Data Types: Declaring a Structure (Union) and its members, Initialization Structure (Union), Accessing members of a Structure (Union), Array of Structures (Union), Structures verses Unions, Enumeration Types.
Files: Introduction, Using Files in C, Working with Text Files, Working with Binary Files, Files of Records, Random Access to Files of Records, Other File Management Functions.
Textbook:PradipDey,Manas Ghosh Computer Fundementals and Programming in C(2e)

References Books:

a. IyorHorton,Beginning C,
b. Ashok KanthaneProgrammig in C
c. Hebert SchildtThe Complete Reference C,
d. Paul Dietal, Harvey Deital, CHow To Program
e. Byron S.Gottfried Theory and Problems of Progrmming with C
f. Brian W.Kernighan Dennis M.Ritchie,The C programming Language
g. B.A.Forouzan R.F. Gilberg A Structured Programming Approach Using C

Chairperson University Nominee Members Principal

1. P.V.
2. Ramana
3.

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(AUTONOMOUS)

B.Sc. I Year Semester – I

Computer Science

Paper –I(Practical/laboratory)

Programming in C

Code: BS106P

HPW-3

Credits-1

1.Write a program to find the largest two (three) numbers using if and conditional operator.

2.Write a program to print the reverse of a given number.
3.Write a program to print the prime number from 2 to n where n is given by user.
4.Write a program to find the roots of a quadratic equation using switch statement.
5.Write a program to print a triangle of stars as follows (take number of lines fromuser):

```
*
***
*****
*******
*********
```

6..Write a program to find largest and smallest elements in a given list of numbers.
7..Write a program to find the product of two matrices..
8.Write a program to find the GCD of two numbers using iteration and recursion.
9.Write a program to illustrate use of storage classes.
10.Write a program to demonstrate the call by value and the call by reference concepts.
11.Write a program that prints a table indicating the number of occurrences of each alphabet in the text entered as command line arguments.
12.Write a program to illustrate use of data type enum.
13.Write a program to demonstrate use of string functions string.h header file.
14.Write a program that opens a file and counts the number of characters in a file.
15.Write a program to create a structure Student containing fields for Roll No., Name, Class, Year and Total Marks. Create 10 students and store them in a file.
16.Write a program that opens an existing text file and copies it to a new text file with all lowercase letters changed to capital letters and all other characters unchanged.

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1. P.V.Sudha
2. Ramani.B
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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)

B.Sc. I Year Semester – I
Computer Science Paper II
Programming in C++

Code: BS206
HPW-4T+3P

DSC-3B
credits:4T+1P

Unit – I

Introduction to C++: Applications, Example Programs, Tokens, Data Types, Operators, Expressions, Control Structures, Arrays, Strings, Pointers, Searching and Sorting Arrays.
Functions: Introduction, Prototype, Passing Data by Value, Reference Variables, Using Reference Variables as Parameters, Inline Functions, Default Arguments, Overloading Functions, Passing Arrays to Functions.
Object Oriented Programming: Procedural and Object-Oriented Programming, Terminology, Benefits, OOP Languages, and OOP Applications.

Unit – II

Classes: Introduction, Defining an Instance of a Class, Why Have Private Members? Separating Class Specification from Implementation, Inline Member Functions, Constructors, Passing Arguments to Constructors, Destructors, Overloading Constructors, Private Member Functions, Arrays of Objects, Instance and Static Members, Friends of Classes, Member-wise Assignment, Copy Constructors, Operator Overloading, Object Conversion, Aggregation.

Unit – III

Inheritance: Introduction, Protected Members and Class Access, Base Class Access Specification, Constructors and Destructors in Base and Derived Classes, Redefining Base Class Functions, Class Hierarchies, Polymorphism and Virtual Member Functions, Abstract Base Classes and Pure Virtual Functions, Multiple Inheritance.
C++ Streams: Stream Classes, Unformatted I/O Operations, Formatted I/O Operations.

Unit – IV

Exceptions: Introduction, Throwing an Exception, Handling an Exception, Object-Oriented Exception Handling with Classes, Multiple Exceptions, Extracting Data from the Exception Class, Re-throwing an Exception, Handling the bad_alloc Exception.
Templates: Function Templates–Introduction, Function Templates with Multiple Type, Overloading with Function Templates, Class Templates – Introduction, Defining Objects of the Class Template, Class Templates and Inheritance, Introduction to the STL.
method).

Text:Tony Gaddis, Starting out with C++: from control structures through objects (7e)

References:

- B. Lippman, C++ Primer Bruce Eckel, Thinking in C++
- K.R. Venugopal, Mastering C++
- Herbert Schildt, C++: The Complete Reference Bjarne Stroustrup, The C++ Programming Language
- Sourav Sahay, Object Oriented Programming with C++

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1. P.V.
2. Ramani D
3.

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HINDI MAHAVIDYALAYA,NALLAKUNTA,HYDERABAD
(AUTONOMOUS)

B.Sc. I Year Semester – II

Computer Science

Paper –II(PRACTICAL/LABORATORY)

Programming in C++

Code: BS206P

HPW-3

Credits:1

1. Write a C++ program to check whether the given number is Armstrong or not
2. Write a program to print the sum of digits of given number
3. Write a program to print prime number from 2 to n where n is natural number given
4. Write a program to find largest and smallest elements in a given list of numbers
5. Write a C++ program to find area of rectangle,circleand square using constructors
6. Write a C++ program using friend and inline functions
7. Write a menu driven program that can perform the following functions on strings(use overloaded operators where possible)
    a) Compare two strings for equality(==operator)
    b) check whether first string is smaller than the second(<=operator)
    c) copy the string to another
    d) extract a character from the string
    e) Reverse the string
    f) Concatenate two string
8. Write a C++ program to demonstrate single inheritance and multiple inheritances
9. Write a C++ program to demonstrate hierarchical inheritance and multipath inheritance
10. Write a C++ program to implement copy constructor
11. Write a C++ program to demonstrate exception handling
12. Write a C++ program to demonstrate class template
13. Write a C++ program to menu driven program for accepting two numbers and perform calculator operations addition, subtraction , multiplication, division and d remainder using function template
14. Write a C++ program to demonstrate various input output manipulations
15. Write a C++ program to implement ADT
16. Write a C++ program to demonstrate array of objects

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HINDI MAHAVIDYALAYA,NALLAKUNTA,HYDERABAD
(AUTONOMOUS)

B.Sc. I Year Semester– II

(MPCS,MSCS,MPC)

Computer Science

AECC- Fundamentals of Computers

H/W-2 2Credits

Unit-I

Introduction to Computers: what is a computer, characteristics of Computers, Generations of Computers, Classifications of Computers, Basic Computer organization, Applications of Computers. Input and Output Devices: Input devices, Output devices, Softcopy devices, Hard copy devices. Computer Memory and Processors: Introduction, Memory Hierarchy, Processor, Registers, Cache memory, primary memory, secondary storage devices, magnetic tapes, floppy disks, hard disks, optical drives, USB flash drivers, Memory cards, Mass storage devices, Basic processors architecture.

Unit-II

Number System and Computer Codes: Binary number system, working with binary numbers, octal number system, hexadecimal number system, working with fractions, signed number representation in binary form, BCD code, other codes. Boolean algebra and logic gates: Boolean algebra, Venn diagrams, representation of Boolean functions, logic gates, logic diagrams and Boolean expressions using karnaugh map. Computer Software: Introduction to computer software, classification of computer software, system software, application software, firmware, middleware, acquiring computer software, design and implementation of correct, efficient and maintainable programs.

Text Book: Reema Thareja, Fundamentals of Computers.

References: 1. V.Rajaraman, 6th Edition Fundamentals of Computers, Neeharika Adabala. 2. Anita Goel, Computer Fundamentals.

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1. P.V.

2. Ramana.B

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(AUTONOMOUS)

B.Sc.(BTMBC,MBBCC),BCOM(GEN & CA),B.A I Year Semester– II

AECC-BASIC COMPUTER SKILLS

UNIT-1

Knowing computer: Basic Applications oF Computer, Components of Computer System, Central Processing Unit (CPU), VDU, Keyboard and Mouse, Other input/oulput Devices, Computer Memory, Concepts of I-hardware and Software; Concept of Computing, Data and Information; Applications of IECT,Connecting keyboard, mouse, monitor and printer to CPU, Checking Power supply.

Operating Computer using GUI Base¢lOperating System: What is an Operating System, Functions of Operating System; Basics of Popular Operatlng Systems(Linux, Windows); The User Interface: Using mouse using right button of the mouse and moving icons on the screen,use of common icons ,Status Bar, Using Menu and Menu-selection, Running an Application, Simple settngs: Date And Time, Display Properties, Add Or Remove A Windows Component, Changing Mouse Properties, Adding and removing Printers, File and Directory Management: Viewing of File, Folders and Directories, Creating and Renaming of files and folders. Opening and closing of different Windows; Using help; Creating Short cuts, Basics of O.S Setup; Common utilities.

Understanding Word Processing: Word Processing Basics; Opening and Closing of documents; Text creation and Manipulation; Formatting of text; Table handling; Spell check, language setting and thesaurus; Printing of word document.

Unit-2

Using Spread Sheet: Basics of Spreadsheet; Manipulation of cells; Formulas andFunctions; Editing of Spread Sheet Printing of Spread Sheet.

Basics of presentation software; Creating Presentation; Preparation and Presentation of Slides; Slide Show,Taking printout of presentation / hands out.

Introduction to Internet, WWW and Web Browsers: Basic of Computer networks; LAN, WAN; Concept of Internet; Applications of Internet; connecting to internet; ISP; Knowing the Internet; Basics of internet connectivity related troubleshooting, World Wide Web; Web Browsing software, Search Engines; Understanding URL; Domain name; IP Address; Using e- governance website.

Software Communications and collaboration: Basics of electronic mail; Getting an email account; Sending and receiving emails; Accessing sent emails; Using Emails; Document collaboration; Instant Messaging; Netiquettes.

Suggested Reading :

- Introduction to Computers, Peter Norton, Mc GrawHill 2012.
- Using Information Technology, Brian K williams, StaceyC.Sawyer, Tata Mc GrawHill.
- Web Resources :

1..https://online.stanford.edu/courses/soe-ycscs101-sp-computer-science-101
2.https://www.extension.liarvardedu/open-learning-initiative/intensive-introduction-computer science

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD

(AUTONOMOUS)

B.Sc - I Year

Semester –I & II

Computer Science Paper – I &II

Scheme of Model Question Paper

Time : :2 ½ hrs — Max.Marks : 100

Semester Exam Pattern — 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=70Marks

Internal Assessment Pattern — **30 Marks** — **Duration - 20 Minutes**

In Internal Assessment there will be
20 Multiple Choice Questions — 20*1 = 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

Internal Assessment Pattern for AECC — **20 Marks** — **Duration - 15 Minutes**

In Internal Assessment there will be
10 Multiple Choice Questions — 10*1=10Marks
Assignment/seminar — 5Marks

Total Internal Assessment Marks — 15 Marks

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1. P.V.
2. Ramana B
3.

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc Computer Science-I[st] Year
Semester – I/II-Paper – I/II
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.

Chairperson University Nominee Members Principal

1. P.V.
2. Ramesh
3.

3/4/24

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc Computer Science-Ist Year
Semester – I/II-Paper – AECC-I/II
Theory Model Question Paper

Time:1½ 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 2 X 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 .

Chairperson

University Nominee

3/4/24

Members

1. P.V.

2. Ramana.N

3.

Principal

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc Computer Science-I[st] Year
Semester – IPaper - I
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. Define algorithm
2. keyword
3. escape sequences
4. array
5. storage classes
6. address operator
7. union
8. files

SECTION B

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

9 (a) Generation and classification of programming language
(OR)
(b) Structure of a c program with an example program

10 (a) Non formatted and formatted input and output functions
(OR)
(b) Explain selection control statements

11 (a) Explain call by value and call by reference?
(OR)
(b) Explain Array of pointer with an example program?

12 (a)Differentiate structure and unions in c?
(OR)
(b) Explain file management functions in ?

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3/4/24

1. P.V.Sridhar
2. Ramana.N
3.

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc Computer Science-I[st] Year
Semester – IPaper – I
Programming in c
Practical Model Question Paper

Time:2 hrs

Max. Marks: 25

I. **Answer any two questions:**

1. Write a program to find largest and smallest elements in given list of numbers.
2. Write a program to print the prime number from 2 to n where n is given by user.
3. Write a program to find the roots of a quadratic equation using switch statement.
4. Write a program that opens a file and counts the number of characters in a file.

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-I[st] Year
Semester – IPaper – II
Programming in C++
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. Data types in C++
2. What is object oriented programming?
3. How to define Class in C++?
4. Operator overloading
5. What is inheritance?
6. What is stream clases?
7. What is throwing an exception?
8. What is function template?

SECTION B

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

9 (a) explain about control structure in C++?

(OR)

(b) Differentitate between procedural and object oriented programming language?

10 (a) Explain about Inline member function?

(OR)

(b) Explain about operator overloading with an example?

11 (a) Explain about inheritance in C++ with an example?

(OR)

(b) Explain formatted and unformatted inputan output operations?

12 (a)Explain object oriented exception handling with classes?

(OR)

(b) Explain Overloading with function template

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1. P.V.
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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc Computer Science-I[st] Year
Semester – IPaper – II
Programming in C++
Practical Model Question Paper

Time: 2 hrs

Max. Marks: 25

I. Answer any two questions

1. Write a C++ program to check whether the given number is Armstrong or not
2. Write a program to print the sum of digits of given number
3. Write a program to print prime number from 2 to n where n is natural number given
4. Write a program to find largest and smallest elements in a given list of numbers

Program execution	(15 Marks)
II.Record	(5 Marks)
III.Viva	(5 Marks)

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3/4/24

1. P.V.
2. Raman B
3.

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
Department of Computer Science
Panel of Examiners

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3	SmtN.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
5	SmtVijithamalini Asst.prof .Dept of Computer Science Reddy College, Narayanguda,Hyderabad	9000323206
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7	Sri. N Bhaskar Asst.prof .Dept of Computer Science Bhavan College, Hyderabad	9347983943
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9	Ms.Vijitha Asst.prof .Dept of Computer Science Keshav memorial ,Narayanguda, Hyderabad	9640508855
10	Ms. Kavitha Asst.prof .Dept of Computer Science St Francis College for Women,Hyderabad	9393003871

Chairperson **University Nominee** **Members** **Principal**

3/4/24

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