Practical Syllabus of B.A. Computer Science

w.e.f. 2013-14

Rass

Max. Marks 60

B.A.II Semester

Examination Time: 6 Hrs

Paper-III

Session-I

Windows: Basics of Windows. Windows History, Basic components of windows, icons, types of icons, taskbar, activating windows, using desktop, title bar, running applications, Windows explorer, managing files and folders, Configuring System devices. Control panel, using

Documentation Using Word - Introduction to Office Automation, Creating & Editing Document, Formatting Document, Auto-text, Autocorrect, Spelling and Grammar Tool, Document Dictionary, Page Formatting, Bookmark, Advance Features of MS-Word-Mail Merge,

Macros, Tables, File Management, Printing, Styles, linking and embedding object. Electronic Spread Sheet using Excel - Introduction to MS-Excel, Creating & Editing Worksheet, Formatting and Essential Operations, Formulas and Functions, Charts, Advance features of MS-Excel-Pivot table & Pivot Chart, Linking and Consolidation, Database

Management using Excel-Sorting, Filtering, Table, Validation, Goal Seek, Scenario. Presentation using PowerPoint: Presentations, Creating, Manipulating & Enhancing Slides, Organizational Charts, Excel Charts, Word Art, Layering art Objects, Animations and Sounds, Inserting Animated Pictures or Accessing through Object, Inserting Recorded Sound Effect or

In-Built Sound Effect.

Session-II Programmming in C

Structure of a C Program. Elements of C: C character set, identifiers and keywords, Data types, Constants and Variables, Assignment statement, Symbolic constant. Input/output: Unformatted & formatted I/O function, Input functions (scanf(), getch(), getche(), getchar(),

gets()), output functions (printf(), putch(), putchar(), puts()). Operators & Expression: Arithmetic, relational, logical, bitwise, unary, assignment, conditional operators and special operators. Arithmetic expressions, evaluation of arithmetic expression, type casting and conversion, operator hierarchy & associativity. Decision making & branching: Decision making with IF statement, IF-ELSE statement, Nested IF statement, ELSE-

IF ladder, switch statement, goto statement. Decision making & looping: For, while, and do-while loop, jumps in loops, break, continue

Functions: Definition, prototype, passing parameters, recursion. Storage classes in C: auto, extern, register and static storage class, their scope, storage, &

Arrays: Definition, types, initialization, processing an array. Structure and Union.

Offg. Princ Indira Gandhi National Follog ADWA Dist. Kurukshetsor

Page 1 of 3

B.A.IV Semester

Max. Marks: 60

Examination Time: 6 Hrs

Paper-III

Session-I Data Structure implementation using 'C'

Strings: Introduction, strings, String operations, Pattern matching algorithms Arrays: Representation of linear array in memory, Traversal, Insertions, Deletion in an array, Multidimensional arrays, Parallel arrays, Sparse matrix. Linked List: Introduction, Array vs. linked list, Representation of linked lists in memory, Traversal, Insertion, Deletion, Searching in a linked list, Header linked list, Circular linked list, Two-way linked list, Garbage collection,

Applications of linked lists. Algorithm of insertion/ deletion in SLL. Stack: primitive operation on stack, algorithms for push and pop. Representation of Stack as

Linked List and array, Stacks applications : polish notation, recursion. Primitive Operations on the Queues, Circular queue, Priority queue, Representation of Queues as Linked List and array, Applications of queue. Algorithm on insertion and deletion in simple

Trees Representations using Array & Linked List, Basic operation on Binary tree, Traversal of queue and circular queue. binary trees:- In order, Preorder & post order, Applications of Binary tree. Algorithm of tree traversal with and without recursion. Representation of graphs.

Session-II

Class and Objects, Data Hiding & Encapsulation, Structures, Data members and Member functions, Scope resolution operator and its significance, Static Data Members, Static member

functions, Nested and Local Class, Accessing Members of Class and Structure. Constructor, Initialization using constructor, types of constructor- Default, Parameterized & Copy Constructors, Constructor overloading, Default Values to Parameters, Destructors, Console

I/O: Hierarchy of Console Stream Classes, Unformatted and Formatted I/O Operations. Manipulators, Friend Function, Friend Class, Arrays, Array of Objects, Passing and Returning Objects to Functions, String Handling in C++, Dynamic Memory Management: Pointers, new and delete Operator, Array of Pointers to Objects, this Pointer, Passing Parameters to Functions

Static Polymorphism: Operator Overloading, Unary & Binary Operators Overloading, Function Overloading, Inline Functions, Merits/Demerits of Static Polymorphism.

Indira Gandhi National College Distt, Kurukshetri

SCHEME OF EXAMINATION FOR COMPUTER SCIENCE PRACTICAL

(2020-21)

Class	Paper	Syllabus	Max. Marks	Time
B.AI Year	Paper-III	PC-Software	100	6 hours
		Programming in C		
B.AII	Paper-III	Data Structure implementation	100	6 hours
Year		using 'C'		
		Programming with C++		
B.AIII	Paper-III	Web Designing using HTML	100	6 hours
Year		SQL and PL/SQL		

Candidates present in the examination

Examination	Allotted candidates	Present candidates	Absent candidates
BA computer Sc.	17	15	2
Practical	17	15	2

Offg. Principal Indira Gandhi Natiopal College LADWA Distt, Kurnkshetro

A Hendance Chart

Examina on	B.A. II Sem.
Date of Examina on	06 JULY 2021
Subject:	Computer
·	

Paper:

Practical

Sr. No.	University Roll No.	A endance
1	201067205	Present
2	201067224	Present
3	201067254	Present
4	201067268	Present
5 :	201067296	Absent
6	201067345	Present
7	201067346	Present
8	201067347	Present .

Principal Indira Gandhi National College Ladwa (Dhanora) Kurukshetra

Total number of Candidates allo ed by the Principal: 08 Total No. of Candidates examined by the Examiner: 07 Total no. of Candidates absent in the Pracecal Examina on: 01

Signature of Principal

I.G.N. COLLEGE LADWA

Signature of Practical Examiner (Internal

I.G.N. COLLEGE LADWA

	At endance Chart	
Examina on.	B.A. IV Sem.	and and an
Date of Examina on	03 JULY 2021	
Subject:	Computer	4924
Paper:	Practical	i ditarte et ili

Sr. No.	University Roll No.	A endance
1	191071117	Present .
2	191071227	Present
3	191071297	Present
4	191071308	Present
5	191071343	Absent

- million for the

States. incipal

Total number of Candidates allo ed by the Principal:05Total No. of Candidates examined by the Examiner :04Total no. of Candidates absent in the Pracifical Examina on:01

Indira Gandhi National Pollege Ladwa (Dhanara) Kurukshetra Signature of Principal

I.G.N. COLLEGE LADWA

Signature of Practical Examiner (Dittornal)

Super tel

16

I.G.N. COLLEGE LADWA

6h

A endance Chart

Examina on B.A. VI Sem. Date of Examina on O2 JULY 2021 Subject: Computer

Paper:

Practical

		1997	
Sr. No.	University Roll No.	A endance	
1	180068639	Present	
2	180068664	Present	
3	180068716	Present	
4	180068718	Present	

Lucina Geneni Notional Jourga Total number of Candidates allo ed by the Principal: 04 Locina Geneni Notional Jourga Total No. of Candidates examined by the Examiner : 04 Locina (Manora) Kuruksherra Total no. of Candidates absent in the Practical Examina on: Nil

Signature of Principal

Signature of Practical Examiner (Intural

4 Nº 15

I.G.N. COLLEGE LADWA

I.G.N. COLLEGE LADWA

ALCAN PLE IN