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.

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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

(2019-20)

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

Candidates present in the examination

Examination	Allotted candidates	Present candidates	Absent candidates
B.Sc. Computer		3	'n
Sc. Practical	5	5	

Offs. Principal Indira Gandhi National College LADWA Disti, Kurakatus

Attendance Chart

ExaminationB.A. VI Sem.Examination08 SEPTEMBER 2020Subject:ComputerPaper:Prachcal

Sr.No.	Roll No.	A endance
1 :	170074903	Present
2	170074917	Present
3	170075011	Present

Indira Gandhi National College Ladwa (Dhanora) Kurukshetra Total number of Candidates allotted by the Principal:03Total No. of Candidates examined by the Examiner :03Total no. of Candidates absent in the Practical Examination:Nil

Signature of Principal

I.G.N. COLLEGE LADWA

Signature of Practical Examiner (Infus

I.G.N. COLLEGE LADWA