

Practical Syllabus of B.A. Computer Science

w.e.f. 2013-14

Computer Practical Syllabus For B.A.

B.A.II Semester

Examination Time: 6 Hrs

Paper-III

Max. Marks 60

Session-I

PC-Software

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 windows accessories.

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(), 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 statement.

Functions: Definition, prototype, passing parameters, recursion.

Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime.

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



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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 queue and circular queue.

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

Session-II

Programming with C++

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 by Reference & pointers.

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



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Kasrawala Distt., Kurukshetra

SCHEME OF EXAMINATION FOR COMPUTER SCIENCE PRACTICAL

(2016-17)

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

Candidates present in the examination

Examination	Allotted candidates	Present candidates	Absent candidates
BA computer Sc. Practical	42	34	8




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Attendance Chart

Examina on: B.A II Sem.

Date of Examina on: 26 April 2017

Subject: Computer

Paper: Practical

Sr. No.	Roll No.	Marks in Figures
1	6331524	Absent
2	6331540	Present
3	6331589	Present
4	6331616	Absent
5	6331636	Present
6	6331650	Absent
7	6331652	Present
8	6331661	Absent
9	6331674	Absent
10	6331700	Absent
11	6331721	Present
12	6331727	Present
13	6331743	Present
14	6331748	Present
15	6331764	Present
16	6331771	Present
17	6331782	Present
18	6331799	Present
19	6331801	Present
20	6331829	Present

Principal

**Indira Gandhi National College
Ladwa (Dhanora) Kurukshetra**

Total number of Candidates allowed by the Principal: 20
Total No. of Candidates examined by the Examiner: 14
Total no. of Candidates absent in the Practical Examination: 06

Signature of Principal

Signature of Practical Examiner (*Imperial*)



I.G.N. COLLEGE LADWA

I.G.N. COLLEGE LADWA

Attendance Chart

Examina on **B.A IV Sem.**
Date of Exam. **18 April 2017**
Subject: **Computer**
Paper: **Practical**

Sr.No.	Roll No.	A endance
1	5330606	Present
2	5330612	Present
3	5330769	Present
4	5330824	Present
5	5330851	Present
6	5330852	Present
7	5330853	Present
8	5330858	Present
9	5330860	Present
10	5330864	Present
11	5330872	Present
12	5330879	Present
13	5330880	Present
14	5330881	Present
15	5330886	Present
16	5330889	Present

Total number of Candidates allo ed by the Principal: 16

Total No. of Candidates examined by the Examiner: 16

Total no. of Candidates absent in the Practical Examina on: Nil

Signature of Principal

Signature of Practical Examiner (Internal)


I.G.N. COLLEGE LADWA

I.G.N. COLLEGE LADWA

Attendance Chart

Examination: B.A VI Sem.
Date of Exam: 11 April 2017
Subject: Computer
Paper: Practical


SR.No.	Roll No.	Attendance
1	4329486	ABSENT
2	4329529	Present
3	4329540	Present
4	4329545	Present
5	4329588	Present
6	4329594	ABSENT


Principal
Indira Gandhi National College
Ladwa (Dhanora) Kurukshetra

Signature of Principal

I.G.N. COLLEGE LADWA

Total number of Candidates allowed by the Principal: 06
Total No. of Candidates examined by the Examiner: 04
Total no. of Candidates absent in the Practical Examination: 02

Signature of Practical Examiner (Internal) 
I.G.N. COLLEGE LADWA