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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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

(2018-19)

Class	Paper	Syllabus .	Max.	Time
			Marks	
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'		o no uno
		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.	10	10	
Practical	19	16	03

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KURUKSHETRA UNIVERSITY, KURUKSHETRA (Established by the state legislature act XII of 1956) B.A. II Sem. EXAMINATION, April, 2019

PRACTICAL ATTENDANCE CHART

Chart for Preparing list of each group for practicals in science and other subjects. Centre for Written Examination: INDIRA GANDHI NATIONAL COLLEGE LADWA Centre for Practical Examination: INDIRA GANDHI NATIONAL COLLEGE LADWA Date: 25-04-2019 Subject: Computer

Session: 1 and II

Time: 9:00 AM :12:00Noon and 2:00 PM - 5:00 PM

Sr.No.	Roll No.	Signature of the candidate before the Principal	Signature of the can Practical Examiner SESSION-I	SESSION-II
1	180068625	Jilendess Singh Rubika Devi	Jitendes Singh	Tilender Singh Rubing Devi
· 2	180068639	Rubika Devi	Ry blica Devi	Rubling Devi
3	180068664	J4041 Devi	J90Hi Dovi	JYOH DEVI
4	180068716	Arish Kumar	Anish Kaimagi	Anish Kump21
5	180068718	Sabna Vievi	Safna Devi	Sabra Devi
6	180068777	(A)	' (A)	<u>(A)</u>
7	180068845	(A)	æ	<u>(1)</u>
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Total number of Candidates allotted by the Principal 07

Principal Indira Gandhi National Cotlege SigiLadwap(Dhanora) Kurukshetra

Address: I.G.N. COLLEGE LADWA Total No. of Candidates examined by the Examiner 05 Total no. of Candidates absent in the Practical Examination 02-

0 Signature of Practical Examiner Mr. Navcen Monga Address :

C.L.S. Govi P.G. College Karnal

Signature & Address of the an-examples RAJER, I.G.N. COLLEGE LADWA

KURUKSHETRA UNIVERSITY, KURUKSHETRA

(Established by the state legislature act XII of 1956) B.A. IV Sem. EXAMINATION, April 2019

PRACTICAL ATTENDANCE CHART

 Chart for Preparing list of each group for practical in science and other subjects.

 Centre for Written Examination:
 INDIRA GANDHI NATIONAL COLLEGE LADWA

 Centre for Practical Examination:
 INDIRA GANDHI NATIONAL COLLEGE LADWA

 Subject:
 Computer

 Date:
 24-04-2019

 Session:
 1 & II

Sr No. Roll No. Signature of the Signature of the candidate before the Practical candidate before the Examiner Principal SESSION -I SESSION-II 170074903 1 Havidreb Kaun Handrich 15 aur Handup Carvi 2 170074917 NARTI AARE BAREI 3 170075011 L'annest Laur Pannet Vaus Parment

Total number of Candidates allotted by the Principal

Indira Gandhi National College Signation di Main (Sphanora) Kurukshetra

Address: LG.N. COLLEGE LADWA Total No. of Candidates examined by the Examiner 03

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Signature of Practical Examiner Mr. Naveen Monga Address : C.L.S. Govt. P.G. College Kamal

Signature & Address of the co-examiner (if any) RAJBIR, I.G.N. COLLEGE LADWA

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KURUKSHETRA UNIVERSITA, KURUKSHETRA (Established by the state legislating of NI of 1956) B.A. VI Sem. EXAMINATION, 2019

PRACTICAL ATTENDANCE CHART

 Chart for Preparing list of each group for practicals in science and other subjects.

 Centre for Written Examination:
 INDIRA GANDIII NATIONAL COLLEGE LADWA

 Centre for Practical Examination:
 INDIRA GANDIII NATIONAL COLLEGE LADWA

 Subject:
 Computer
 Date: 12-04/2019

 Session:
 I And II
 Time: 9:00 AM to 12:00 Noon and 2:00 PM to 5:00 PM

Sr.No.	Roll No.	Signature of the candidate before the Principal	Signature of the candidate Examiner	
1	6331636	Long outron	5185102	SESSION-II
2	6331721	Swa-ti	Jugger Simoki	Deertra Sing 4
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4	6331743	Minakaki	Nancy	hancy
5	6331748	lavas	Minal Ca hi	Mirockah
6	6331771	Kavita	Yanas	ranas
7	6331782	Advired	kayita	Kavita
8	6331801	Sangeda	Sanyeeta	Dourrede.
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Total number of Candidates allotted by the Principal

Indira Gandhi National College Signature (Saducios) Dhanora) Kurukshetre

Address: LG.N. COLLEGE LADWA

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Signature of Practicial Examiner Address

Me. Rajish Verma C.L.S. Gov. P.G. College Karnal

Signature & A. Gress of the co-example (if any) RAJBIR, L., N. COLLEGE LADWA Signature