

P.G.D.C.A. Semester – I

DCA - 101 : Fundamentals of Programming Language ‘C’

Teaching Scheme (per week)		Teaching Scheme (per semester)		Examination Scheme					
				Internal		External		Total	
Th. (Hours)	Pr. (Hours)	Total (Hours)	Credit	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)
4	---	40	4	30	----	70	---	100	---

Unit – I		[17 Marks]
	<p>Introduction to Programming: Concepts of Algorithm and Flowcharts, problem solving examples using algorithm and flowchart, Types of Programming languages, Characteristics of higher level language, Compiler and Interpreter</p> <p>Overview of C: Introduction, Importance of C, Sample C programs, Basic structure of C programs, Programming style, executing of C program.</p> <p>Constants, Variables and data Types: Introduction, Character Set, C tokens, Keywords and Identifiers, Constants, Variables, Data types, Declaration of Variables, Defining symbolic constants.</p>	
Unit – II		[18 Marks]
	<p>Operators and Expression : Introduction, Arithmetic of Operators, Relational Operators, Logical Operators, Assignment Operators, Increment and Decrement Operators, Conditional Operators, Bit-wise Operators, Special Operators, Arithmetic Expressions, Evaluation of expressions, Precedence of arithmetic operators, Type conversions in expressions, Operator precedence and associativity, Mathematical functions.</p> <p>Managing Input and Output Operators : Introduction, reading a character, writing a character, formatted input, formatted output.</p>	
Unit – III		[17 Marks]
	<p>Decision making branching: Introduction, Decision making with IF statement, Simple IF statement, the IF ELSE statement, Nesting of IF ... ELSE statements, The ELSE IF ladder, The switch statement, the turnery (? :) Operator, the GOTO statement.</p> <p>Decision Making Looping: Introduction, the DO-WHILE statement, the DO-WHILE... statement, The FOR statement, Jumps in loops Break and continue.</p>	
Unit – IV		[18 Marks]
	<p>Array : Introduction, One-dimensional, arrays, Two-dimensional arrays, Initialization of two-dimensional arrays, Concept of Multidimensional arrays</p> <p>Handling of Character strings : Introduction, Declaring and initializing string variables, Reading strings from</p>	

	terminal, Writing strings to screen, Arithmetic operations on characters, Putting string together, String Operations: String Copy, String Compare, String Concatenation And String Length, String Handling functions, Table of strings.	
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Text Book:

1. **Programming in ANSI C**, Balagurusamy, Tata McGraw-Hill

Reference Books:

1. Programming in C, by Pradip Dey & Manas Ghosh, Publisher – Oxford
2. The Complete Reference, Herbert schildt Fourth Edition
3. Let Us C , Yashwant Kanetkar, BPB Publications
4. Programming in C, by Reena thareja Publisher – Oxford

Question Paper Scheme:

University Examination Duration : 3 Hours.

Q.1 Descriptive / Long questions. (12 Marks)

Q.2 Descriptive / Long questions. (12 Marks)

Q.3 Descriptive / Long questions. (12 Marks)

Q.4 Descriptive / Long questions. (12 Marks)

Q.5 -

A. Unit I ,II,III and IV – Objectives/Short Questions (12 Marks)

B. Program related to syllabus of above subject (10 Marks)

Note: Options should be given in all questions.

P.G.D.C.A. Semester – I

DCA - 102: Database Management System

Teaching Scheme (per week)		Teaching Scheme (per semester)		Examination Scheme					
				Internal		External		Total	
Th. (Hours)	Pr. (Hours)	Total (Hours)	Credit	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)
4	---	40	4	30	----	70	---	100	---

Unit – I								[17 Marks]	
Database Concepts: Overview of Database and DBMS, Comparison of File system and DBMS, Components of database system environment, Functions of DBMS, Advantages and disadvantages of the DBMS, Database-System Applications.									
Unit – II								[18 Marks]	
Database Design and Architecture: Three level Architecture of Database - external, conceptual and internal, Database Schema, Data Independence, Data Models concepts: Hierarchical, Network and Relational, DBMS users, Role of DBA.									
Unit – III								[17 Marks]	
Relational Database design & ER Model: Relational Model: Concepts, Operators, relations, domains and attributes, keys, traditional set operations, special relational operations. Functional Dependency – definition, trivial and non-trivial FD, closure of FD set, closure of attributes, irreducible set of FD, Normalization – 1NF, 2NF, 3NF, Denormalization The E/R model Entity, E-R Diagram, Attributes, Relationship & Types, and Development stages of E-R diagram & Examples									
Unit – IV								[18 Marks]	
GUI based Database Tool: Introduction of Database tools, Data types: Text, Number, Auto number, Currency, Boolean, Date/Time, Memo, Objects: Table, Query, Forms, Reports, Controls used in forms and reports									

Reference Books:

1. An Introduction to Database Systems By C. J. Date (8th edition) Low Price Edition
2. Database system concepts By Avi Silberschatz, Henry F. Korth, and S. Sudarshan McGraw-Hill Education
3. Microsoft Office Access 2007: The Complete Reference By Virginia Andersen McGraw Hill Professional

Question Paper Scheme:**University Examination Duration: 3 Hours.**

- | | |
|------------------------------------|------------|
| Q.1 - Unit-I | (12 Marks) |
| Descriptive / Long questions. | |
| Q.2 - Unit-II | (12 Marks) |
| Descriptive / Long questions. | |
| Q.3 - Unit-III | (12 Marks) |
| Descriptive / Long questions. | |
| Q.4 - Unit-IV | (12 Marks) |
| Descriptive / Long questions. | |
| Q.5 – Objective / Short Questions. | |
| A. Unit-I and II | (12 Marks) |
| B. Unit-III and IV | (10 Marks) |

Note: Options should be given in all questions.

P.G.D.C.A. Semester – I

DCA-103 : Internet and Web Designing

Teaching Scheme (per week)		Teaching Scheme (per semester)		Examination Scheme					
				Internal		External		Total	
Th. (Hours)	Pr. (Hours)	Total (Hours)	Credit	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)
4	---	40	4	30	----	70	---	100	---

Unit – I								[17 Marks]	
Basics of Computer Networks: Introduction to Computer Networks, Advantages and disadvantages of computer networks. Types of Networks - LAN, MAN, WAN. Network Topology – Star, Ring, Bus, Tree, Complete, Irregular. Reference Models - The OSI reference model, the TCP/IP reference model									
Unit – II								[18 Marks]	
Transmission Media : Introduction to Transmission Media Guided Transmission Media : Magnetic Media, Twisted Pair, Co-axial Cable, Fiber Optics. Unguided Transmission Media : Radio Transmission, Microwave Transmission, Infrared.									
Unit – III								[17 Marks]	
Static Web Page Development Basics of HTML : <ul style="list-style-type: none"> • Introduction to HTML, HTML document structure • Adding text in newline(
 ... </BR>), Creating Paragraph (<p> ... </p>) • Creating heading (<h1> .. </h1> to <h6> .. </h6>) • Creating a horizontal line (<hr> ... </hr>) • Sub Script and Super Script Text • Text Alignment, Formatting of text (, <I> , <U>) • Other text formatting tags. • Font tag • Scrolling text (<marquee> ... </marquee>) • HTML Comments. • Working with list : Order list, Unordered list, Definition list • Preformatted tag <pre> ... </pre> • Working with Table :Creating table, Specifying caption, Table headings, All table related Tags and attributes. • Working with Frames : <frameset> ... </frameset> and all attribute of tag, <frame> ... </frame> and all attribute of tag (including target attribute) • Working with Links : anchor tag <a> ... with its entire attribute. • Working with Images : ... and all its Attributes 									
Unit – IV								[18 Marks]	
Working with Forms : Creating form (<form> ... </form>) and all its Attributes, Adding controls to an HTML form, <input> tag and all its									

attributes, <textarea> tag and all its attributes, <select>...</select> tag and all its attributes. Dynamic Web page Development : Introduction to Cascading Style Sheets (CSS), Defining Style with HTML Tags, Features of Style Sheet, Style Classes, External Style Sheet. Common Tasks with CSS Properties : Text, Fonts, Margins, Colors, Background and Borders, Table.	
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Books:

1. Computer Networks - Andrew S. Tanenbaum PHI Publications.
2. Internet and Web designing, Rajesh Maheta, Ronak patel, Rajendra patel and Shyam Chavda (Nirav Prakashan), 1st Edition.
3. Data Communications and networking, Behrouz A Forouzan, THM Publication.
4. E-commerce : Dr. Bhadrash Patel, Bharat Publication
5. Internet for Everyone – Alexix Leon and Mathews Leon Vikas Publication.
6. Introduction to Internet & HTML Scripting, Bhaumik Shroff, Books India Publication 3rd Edition.
7. Sams Teach Yourself HTML 4 in 24 Hours By Dick Oliver (Tech media) 4th edition.
8. HTML and CSS, Dick Oliver and Michael Morrison (Pearson Education) 7th edition.

Question Paper Scheme:

University Examination Duration : 3 Hours.

- Q.1 Descriptive / Long questions. (12 Marks)
- Q.2 Descriptive / Long questions. (12 Marks)
- Q.3 Descriptive / Long questions. (12 Marks)
- Q.4 Descriptive / Long questions. (12 Marks)
- Q.5
- A. Objective / Short Questions (UNIT-I & II) (12 Marks)
 - B. Objective / Short Questions (UNIT-III & IV) (10 Marks)

Note: Options should be given in all questions.

P.G.D.C.A. Semester – I

DCA-104 : System Analysis And Design (SAD)

Teaching Scheme (per week)		Teaching Scheme (per semester)		Examination Scheme					
				Internal		External		Total	
Th. (Hours)	Pr. (Hours)	Total (Hours)	Credit	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)
4	---	40	4	30	----	70	---	100	---

Unit – I								[17 Marks]	
System Analysis Fundamentals: Introduction to System, System Analysis and Design, Types of System: TPS, MIS, DSS, Need for System Analysis and Design, Role of the System Analyst. System Development Strategies: SDLC, Structured Analysis Development Method, System Prototype Method. Organizations as System: Interrelatedness and Interdependence of System, System Process, Boundaries, System Feedback, Managing Project Review and Selection. Fact-Finding Techniques: Interview, Questionnaire, Record Review, Observation. Data Flow Diagram: Advantages, Notations, Rules, Leveling, Logical and Physical DFD. Data Dictionary: Importance, Data Elements, Describing Process Specification. Structured Decisions: Decision Tree, Decision Tables, Structured English									
Unit – II								[18 Marks]	
The Essentials of Design Designing Effective Output: Objectives, Types of Output, Method, Factors to consider Designing Effective Input: Objectives, Guideline for Form design, Screen and Web Forms Designing User Interface: Objectives, Types of user interface Check Digits, Data Validation and Data Verification Case Tools: Benefits of Computer-Assisted Tools, Categories of Automated Tools, Case Components.									
Unit – III								[17 Marks]	
Quality Assurance through Software Engineering Design of Software and Software Design Principles Software design and documentation: Structured Flowcharts, HIPO Chart, Warnier/Orr Diagrams Managing Quality Assurance: Level of Assurance, Level of Test Implementation of Information System: <ul style="list-style-type: none"> • Training Strategies, Conversion, Post Implementation Review 									
Unit – IV								[18 Marks]	
Case Studies: <ul style="list-style-type: none"> ▪ Financial Accounting System ▪ Payroll System ▪ Library System ▪ Inventory System ▪ Online Banking System ▪ Railway Reservation system (Entity, Input, Output, DFD)									

Text Books:

1. Analysis and Design of Information System, James A. Senn
2. System Analysis & Design, S. Parthasarthy & B.W. Khalkar

Reference Books:

1. Introduction to SAD by lee
2. System Analysis & Design by kendall and kendall

Question Paper Scheme:

University Examination Duration : 3 Hours.

Q.1 Descriptive / Long questions. (12 Marks)

Q.2 Descriptive / Long questions. (12 Marks)

Q.3 Descriptive / Long questions. (12 Marks)

Q.4 Descriptive / Long questions. (12 Marks)

Q.5 –

A. Objective/Short Question (Unit-I and II) (12 Marks)

B. Objective/Short Question (Unit-III and IV) (10 Marks)

Note: Options should be given in all questions.

P.G.D.C.A. Semester – I

DCA-105 : Practical Based on DCA - 101 (FPL-C)

Teaching Scheme (per week)		Teaching Scheme (per semester)		Examination Scheme					
				Internal		External		Total	
Th. (Hours)	Pr. (Hours)	Total (Hours)	Credit	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)
----	4	40	4	----	30	----	70	----	100

(Practical List)

1. Write a C program to display "hello World" on the screen.
2. Write a C program and draw flowchart to find the area of circle.
(Formula $\text{Area} = \pi * r * r$).
3. Write a C program and draw flowchart to evaluate simple interest
(Formula $I = P * R * N / 100$).
4. Write a C program to find the area of rectangle, cube and triangle.
(Formula are: Rectangle = $l * b * h$, triangle = $(l * b) * 0.5$, cube = $L * L * L$)
5. Write a C program to interchange two numbers.
6. Write a C program to convert Fahrenheit into centigrade.
Formula: $C = (F - 32) / 1.8$.
7. Write a C program to perform addition, subtraction, multiplication and division Operation on any two numbers.
8. Write a C program to enter days and convert into years, month and remainder days.
9. Write a C program to find out the largest number from given three numbers using Conditional Operator
10. Write a C program to find the maximum number from given three numbers using nesting of if...else statement
11. Write a C program to find that the entered number is Negative or Positive or Zero.
12. Write a C program to Check whether the entered char is capital, small, digit or any special Character
13. Write a C program to read day number 1 to 7 and print relatively day Sunday to Saturday using switch statement.(1 for Sunday, 2 for Monday.....so on).
14. Write a C program to find out the maximum and minimum number from Given 10 numbers.
15. Write a C program to find the sum of digit of accepted number.
16. Write a C program to find the sum of first 100 odd numbers and even Numbers.
17. Write a C program to display first 25 Fibonacci nos.

18. Write a C program to check the accepted number is prime number or not.
19. Write a C program to display first' 100 prime numbers.
20. Write a C program to find factorial of accepted numbers.
21. Write a C program to find whether the accepted number is palindrome or not.

22. Write a C program to arrange the accepted numbers in ascending order and descending order.

23. Write a C program to prepare pay slip using following data.

Da = 50% of basic, Hra = 10% of basic, Ma = 300, Pf = 12.50% of basic, Gross = basic + Da + Hra + Ma, Net = Gross – Pf.

24. Write a C program to read marks and your program will display grade.

Marks	Grade
100 – 80	Dist
60 – 79	First
50 – 59	Second
35 – 49	Pass
0 – 34	Fail

25. Write a C program to display following output on the screen.

```
1
1 2
1 2 3
1 2 3 4
```

26. Write a C program to display following output on the screen.

```
1
0 1
1 0 1
0 1 0 1
1 0 1 0 1
```

27. Write a C program to display following output on the screen.

```
1
2 3
4 5 6
7 8 9 10
```

28. Write a C program to display following output on the screen.

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
```

29. Write a C program to display following output on the screen

```

C
CP
CPR
CPRO
:
CPROGRAMMING
:
CPRO
CPR
CP
C

```

30. Write a C program to find maximum & minimum value from the given array.
31. Write a c program to input N no and find out the sum, average, max, min, total even no and total odd no. [using array]
32. Write a C program to find whether the accepted string is palindrome or not.
33. Write a C program to convert given line into upper case or lower case.
34. Write a C program to count no of word, character, line and space from given text.
35. Write a C program to sort given string in ascending order.
36. write a program which explain the use of string handling functions. (strcat(), strcpy(), strcmp(), strlen()).

Practical Exam Scheme:

Practical	Viva	Journal	Total
40 Marks	20 Marks	10 Marks	70 Marks

Reference Books:

1. Programming in C, by Pradip Dey & Manas Ghosh, Publisher – Oxford
2. The Complete Reference, Herbert schildt Fourth Edition
3. Let Us C , Yashwant Kanetkar, BPB Publications
4. Programming in C, by Reena thareja Publisher – Oxford
5. Programming in ANSI C, Balagurusamy, Tata McGraw-Hill

P.G.D.C.A. Semester – I

DCA - 106: PC Packages - Office automation Tools

Teaching Scheme (per week)		Teaching Scheme (per semester)		Examination Scheme					
				Internal		External		Total	
Th. (Hours)	Pr. (Hours)	Total (Hours)	Credit	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)
----	4	40	4	----	30	----	70	----	100

Introduction of Operating Systems and Working with Files

Introduction of Operating System: DOS and Windows, Applications of OS, Difference between DOS & Windows.

DOS: Internal & External commands, file name Rules, Creating/Editing file, batch file

Windows and its different Terminologies: Desktop, Icon, Wallpaper, Taskbar, My computer, My document, Recycle bin, Control, Find, Shutdown, Logoff

Note: The Practical list provided beneath is for reference only. The subject teacher may change/formulate it as per his/her methodology and requirement.

Word Processing: (E.g. Writer)

Practical may be given for

- Creating the documents with Special effects like underline, bold, different size, different font, and different color etc.
- Find and Replace operations like cut, paste, copy clipboard, spell-check creating auto text
- Inserting Date & Time, Pictures, and Bullets & Numbering etc.
- Paragraphs, bullets, indentation etc. Formatting features.
- Printing the documents, it includes paper-size, margins, header and footer, page no.
- Creating a table, drawing table.
- Macro creation and mail merge application feature

Spreadsheet Application: (E.g. Calc)

Practical may be given for

- Creating spreadsheet.
- Printing, Inserting, Deleting, Copying, Moving spreadsheet.
- Formulas, Built-in functions.
- Graph-Plotting facilities.
- Formatting cells, spreadsheet etc.
- Sorting, filtering, conditional formatting spreadsheet.
- Protection facility , Goal seek
- Pivot tables
- Macro facility
- Create Employee Salary Slip in spreadsheet

- Create Student Mark sheet in spreadsheet

Multimedia Presentation: (E.g. Impress)

Practical may be given for

- Creating a presentation
- Inserting/Deleting slides
- Different slide views
- Editing slides.
- Slide transition & Add animation
- Inserting sound, picture, chart, organization chart.

GUI based Database Tool:

Practical may be given for

- Design a simple database.
- Create table like Student, Employee using design view and wizard.
- Query a database using different methods.
- Create a form using design view and wizard.
- Generate various report using design view and wizard.
- Create project on following system
 - ✓ Student Information System
 - To prepare student marksheet.
 - ✓ Employee Information System
 - To generate employee salary slip.
 - ✓ To prepare electricity bill.
- Create Macros to Automate Tasks.

Practical Exam Scheme:

Word Processor / Presentation Practical	Spreadsheet Application Practical	GUI based Database Tool Practical	(Viva on) DOS Commands and Pc-Packages Software	Journal	Total
15 Marks	15 Marks	10 Marks	20 Marks	10 Marks	70 Marks

Reference Books:

1. PC Software's for Windows By TAXALI [TMH]
2. Microsoft Office 2007: Introductory Concepts and Techniques By Gary B. Shelly, Thomas J. Cashman, Misty E. Vermaat
3. Taming Apache OpenOffice: Getting Started By Jean Hollis Weber
4. Open Office Basic: An Introduction By James Steinberg
5. Getting Started with LibreOffice By LibreOffice community

P.G.D.C.A. Semester – I

DCA-107 : Practical Based on DCA - 103 (I&WD)

Teaching Scheme (per week)		Teaching Scheme (per semester)		Examination Scheme					
				Internal		External		Total	
Th. (Hours)	Pr. (Hours)	Total (Hours)	Credit	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)
----	4	40	4	----	30	----	70	----	100

(Practical List)

:HTML:

1. Create your resume using HTML tags also experiment with suitable headings and horizontal rules, background color, text color and background image.
2. Write HTML code for specifying different heading tags (<h1> .. </h1> to <h6> .. </h6>).
3. Format the text by using formatting tags like bold italic and underline.
4. Create web page which demonstrate the use of font tag.
5. Demonstrate the use of subscript, super script, align tag.
6. Write HTML program to create a simple Order list, Unordered list and definition list.
7. Write HTML program to create nested list. Like fruits, vegetables, subjects etc.
8. Demonstrate the use of preformatted text (<pre> ... </pre>).
9. Write HTML code to create a web page of green color and display a moving message in red color.
10. Write HTML program to create simple table as below :

Which is your favorite Color	Which is your favorite Fruit	Which is your favorite Game
Red	Apple	Cricket
Green	Banana	Volly Ball
Yellow	Grapes	Bed Minton
Blue	Orange	Hockey

11. Write HTML program to create complex table. Like your Bio-Data, Mark sheet, Electricity bill, telephone bill, time – table etc.
12. Write html code to develop a webpage having two frames that divide the webpage into two equal rows and then divide the row into equal columns fill each frame with a different background color.
13. Write the Frameset tags and Frame tags for the following frameset.

Physics.html	Welcome.html	Maths.html
Chemistry.html		Computer.html
Biology.html	Heading.html	Account.html
Zoology.html		

14. Design a web page using Frames and Frameset for your college containing a description of the courses, departments, faculties , library etc , also use links , list tags, etc.
15. Create a web page that provides links to five different web pages or to entirely different websites.

16. Write HTML program to e-mail registration form.
 17. Write HTML program to enter student detail form.
 18. Write HTML program to implement Inline style sheet.
 19. Write HTML program to implement External CSS.
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Practical Exam Scheme:

Practical	Viva	Journal	Total
40 Marks	20 Marks	10 Marks	70 Marks

Reference Books:

1. Computer Networks - Andrew S. Tanenbaum PHI Publications.
2. Internet and Web designing, Rajesh Maheta, Ronak patel, Rajendra patel and Shyam Chavda (Nirav Prakashan), 1st Edition.
3. Data Communications and networking, Behrouz A Forouzan, THM Publication.
4. E-commerce : Dr. Bhadresh Patel, Bharat Publication
5. Internet for Everyone – Alexix Leon and Mathews Leon Vikas Publication.
6. Introduction to Internet & HTML Scripting, Bhaumik Shroff, Books India Publication 3rd Edition.
7. Sams Teach Yourself HTML 4 in 24 Hours By Dick Oliver (Tech media) 4th edition.
8. HTML and CSS, Dick Oliver and Michael Morrison (Pearson Education) 7th edition.

P.G.D.C.A. Semester – I

DCA-108 : DeskTop Publishing (DTP)

Teaching Scheme (per week)		Teaching Scheme (per semester)		Examination Scheme					
				Internal		External		Total	
Th. (Hours)	Pr. (Hours)	Total (Hours)	Credit	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)	Th. (Marks)	Pr. (Marks)
----	4	40	4	----	30	----	70	----	100

(Practical List)

:DeskTop Publishing (DTP):

Note: The Practical list provided beneath is for reference only. The subject teacher may change/formulate it as per his/her methodology and requirement.

- One can use similar tools /software for practicals

PHOTO SHOP:

1. Create a Simple Photoshop page
2. Marge two picture into One Photoshop image
3. Write a name of picture on the picture
4. Create a friendship card into Photoshop
5. Convert color photo into black and white
6. Give some extra effect on the photo
7. Create a picture with background image display first

PAGE MAKER:

8. Make an attractive visiting card of any titles (Subject) having size of 2" X 3.5" in Tall without layer.
 9. Make an attractive visiting card of any titles (Subject) having size of 2" X 3.5" in Tall with layer
 10. Make an attractive visiting card of any titles (Subject) having size of 2" X 3.5" in Wide without layer.
 11. Make an attractive visiting card of any titles (Subject) having size of 2" X 3.5" in Wide with layer
 12. Create an attractive book title of any given subject having size of 8" X 6" in Tall without layer.
 13. Create an attractive book title of any given subject having size of 8" X 6" in Tall with layer.
 14. Create an attractive book title of any given subject having size of 8" X 6" in Wide without layer
 15. Create an attractive book title of any given subject having size of 8" X 6" in Wide with layer
 16. Create an attractive poster of any given subject having size of 8" X 6" in Tall without layer
 17. Create an attractive poster of any given subject having size of 8" X 6" in Tall with layer
 18. Create an attractive poster of any given subject having size of 8" X 6" in Wide without layer.
 19. Create an attractive poster of any given subject having size of 8" X 6" in Wide with layer.
 20. Create an attractive CD. title of any given Subject having proper size without layer
 21. Create an attractive CD. title of any given Subject having proper size with layer
 22. Make an attractive visiting card of any titles (Subject) having size of 2" X 3.5" in Tall with layer.
 23. Make an attractive visiting card of any titles (Subject) having size of 2" X 3.5" in Tall with layer
 24. Make an attractive visiting card of any titles (Subject) having size of 2" X 3.5" in Wide without layer.
 25. Make an attractive visiting card of any titles (Subject) having size of 2" X 3.5" in Wide with layer
 26. Create an attractive book title of any given subject having size of 8" X 6" in Tall without layer
 27. Create an attractive book title of any given subject having size of 8" X 6" in Tall with layer.
 28. Create an attractive book title of any given subject having size of 8" X 6" in Wide without layer.
 29. Create an attractive book title of any given subject having size of 8" X 6" in Wide with layer
 30. Create an attractive poster of any given subject having size of 8" X 6" in Tall without layer
 31. Create an attractive poster of any given subject having size of 8" X 6" in Tall with layer
 32. Create an attractive poster of any given subject having size of 8" X 6" in Wide without layer.
 33. Create an attractive poster of any given subject having size of 8" X 6" in Wide with layer.
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Practical Exam Scheme:

Practical	Viva	Journal	Total
40 Marks	20 Marks	10 Marks	70 Marks

Reference Books:

1. Comdex Desktop Publishing Course Kit BY Vikas Gupta (Dreamtech Press)
2. Photoshop CC for Beginners: The Ultimate Digital Photography and Photo Editing Tips and Tricks Guide for Creating Amazing Photos BY Joseph Joyner (Mihails Konoplovs (28 September 2015))
3. Adobe PageMaker 7.0 Classroom in a Book BY adobe (pearson education- ISBN13: 9780201756258 ISBN10: 0201756250)
4. Rapidex dtp course BY shirish chavan (Unicorn Books)
5. Learn DTP (Photoshop 7, Corel Draw X3, PageMaker)

Some Helpful Websites : www.lulu.com , www.lulu.com/leftfieldnz , www.scribus.net , www.gimp.org , www.inkscape.org , www.openoffice.org , www.kubuntu.org , www.creativekiwis.com