

PGDLAN

**Post Graduate Diploma
in
Library Automation and Networking**

**Assignments
For January 2020 and July 2020 Sessions**



Faculty of Library and Information Science

**School of Social Sciences
Indira Gandhi National Open University
Maidan Garhi
New Delhi-110068**

DATES FOR SUBMISSION OF ASSIGNMENTS

FOR JANUARY SESSION

30th September 2020

FOR JULY SESSION

31st March 2021

WHERE TO SUBMIT THE ASSIGNMENTS

Kindly submit your assignments at the concerned Study Centre/TLC within the due dates as mentioned above

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INSTRUCTIONS FOR ASSIGNMENTS

As a part of PGDLAN Programme, each candidate has to do two Tutor Marked Assignments (TMAs), in all the seven courses except course MLIP – 008: Project. These TMAs comprise theoretical as well as practical assignments.

Assignments carry 20% weightage in the continuous evaluation process of a course. The term-end examinations carry 80% weightage.

The assignments will be evaluated by the Counsellors at the TLCs and the respective weightage of marks will be added to their percentage of marks obtained at the term-end examination. Each candidate will have to complete assignments in order to appear in the term-end examination. Candidates are, therefore, advised to take assignments seriously and submit them in time.

INSTRUCTIONS FOR TUTOR MARKED ASSIGNMENTS

- 1) *The validity of the assignment is ONE YEAR. Those who take admission in January session have to attempt the assignments of January session only. If they fail to submit their assignments before the due date of the particular session, they are supposed to attempt the fresh set of assignments of subsequent January session (e.g. if a student of January 2020 session fails to submit her/his assignments till 30 September 2020, s/he will have to attempt the fresh assignments of January 2021 session). Similarly, those who take admission in July session have to attempt the assignments of July session only. If they fail to submit their assignments before the due date of the particular session, they are supposed to attempt the fresh set of assignments of subsequent July session (e.g. if a student of July 2020 session fails to submit her/his assignments till 31 March 2021, s/he will have to attempt the fresh assignments of July 2021 session).*
- 2) Write your Enrolment Number, Name, Full Address and Date of Despatch at the top right-hand corner of the first page of your answer sheet.
- 3) Write the Programme Title, Course Title, Assignment Number, Code and Place of the Study Centre (TLC) on the left-hand corner of the first page of your answer sheet.

The top of the first page of your answer sheet for each assignment should be as follows:

Programme Title Enrolment No.

Course Code & Title..... Name

Assignment Code Address

Study Centre/TLC (Code).....

Study Centre/TLC.....

(Place)

..... Date

Note: Candidates are required to follow this format strictly otherwise the assignments will not be evaluated.

- 4) Your answer sheet should be complete in all respects. Make sure that you have answered all the questions in assignments before you submit them. Incomplete answer sheets will lead to poor marks.
- 5) As far as possible students are advised to give the relevant points from the course material and elaborate their answers and explanations in their own language instead of reproducing the language of the course materials.
- 6) You are advised not to copy from the study material while attempting the assignments. In case it is found that the assignments have been copied from study material, you will be awarded zero marks.
- 7) Avoid copying from the assignments of other students. If copying is noticed, the assignments of such students will be rejected.
- 8) Use only foolscap size paper for your answers, ordinary writing paper, neither too thick nor too thin, will do.
- 9) Leave 3" margin on the left and at least 4 lines in between each answer in an assignment. This will enable your Counsellor to write useful comments in appropriate places. Write question number for each answer.
- 10) The Coordinator of your Study Centre/TLC will return the evaluated assignments to you. This will also include a copy of assessment sheet containing global comments of the evaluator on your performance in the assignments. This will enable you to improve in your future assignments as well as in the term-end examinations.
- 11) The Tutor Marked Assignments should be sent to the Coordinator / Programme In-charge of the Study Centre/TLC allotted to you.

PRACTICAL ASSIGNMENTS

Assignment No. 2 of each course (TMA – P), which is for practical, is to be carried out at Study Centres/ TLCs. These have to be submitted/shown to the concerned counsellors.

**MLI-001: Introduction to Computers
TMA-Theory**

Coverage:

Course: Introduction to Computers

Blocks: 1 to 3

Units: 1 to 9

Course Code: MLI- 001

Assignment Code: AST-1/TMA-T/Jan. & Jul.2020

Total Marks: 50

I) Answer *any two* of the following in *not more than 1000 words each*.

- 1) What are direct access storage devices? Discuss the advantages of direct access storage devices over sequential devices. (15)
- 2) Explain user management in Unix Operating System. (15)
- 3) What do you understand by library automation? Discuss the need for automation of libraries. (15)

II) Answer *any four* of the following in *not more than 500 words each*.

- 1) What do you understand by the concept 'Virtual Machine'? (5)
- 2) Explain in brief data compression techniques. (5)
- 3) Differentiate between serial and parallel transmission. (5)
- 4) Describe the components of a Linux System. (5)
- 5) Discuss the advantages of client-server model. (5)
- 6) What are the factors that are responsible for the emergence of information society? (5)

MLIL-001: Introduction to Computers
TMA – Practical

Coverage:

Course: Introduction to Computers

Blocks: 1 to 3

Units: 1 to 9

Course Code: MLIL- 001

Assignment Code: AST/TMA–P/ Jan. & Jul.2020

Total Marks: 50

General Instructions for Practical Assignment:

- i) Documents, data, database, etc. to work on for the practical assignments will be provided by the Counsellor/Practical Supervisor in the Study/Tele Learning Centre.
- ii) You are required to do the practical assignment in the Study/Tele Learning Centre. Evaluation of the assignment will be done by the Counsellor/Practical Supervisor on the spot.
- iii) Make Screen Captures for all the answers and save them in one file. The Counsellor/Practical Supervisor will evaluate these screen captures and give marks accordingly.
- iv) All questions are compulsory.

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- 1) Perform the following activities: (10)
 - A) DOS:
 - (i) Make a directory named MYDIR
 - (ii) Delete MYDIR directory/
 - (iii) Change your computer from C to A
 - B) WINDOWS:
 - (i) Remove an item from the start menu
 - (ii) Create a shortcut of MS-Excel on desktop
 - (iii) Set a screen saver showing your name
 - (iv) Put your computer in standby mode
 - C) UNIX:
 - (i) View status of processes running on the system
 - (ii) Terminate one of the running processes by using 'kill' command
 - (iii) Activate UNIX manual for 'Is' command
 - 2) Prepare a MS Word document containing both text and table, also add header and footer to it. (10)
 - 3) Prepare a Power Point presentation consisting of 05 slides having text and animation. Apply different design templates, charts and slide transition effects for each slide. (10)

- 4) Create a file in MS-EXCEL containing names of 10 students with their marks in five subjects. Add a chart to present this data. (10)
- 5) Prepare a database in MS-Access of twenty users for circulation section of a Library. (Details will be provided by the Counsellor/ Supervisor). (10)

**MLI-002: Library Automation
TMA-Theory**

Coverage
Course: Library Automation
Blocks: 1 to 4
Units: 1 to 14

Course Code: MLI-002
Assignment Code: AST- 1/TMA-T/Jan. & July 2020

Total Marks: 50

- D) Answer *any two* questions in *not more than 1000 words each*.
- 1) Describe the formats and standards used for cataloguing library resources in an automated environment. (15)
 - 2) Explain the process of evaluating library automation software. (15)
 - 3) What is retro- conversion? Explain the advantages and disadvantages of in-house retro-conversion (15)
- II) Answer *any four* of the following in *not more than 500 words each*.
- 1) Dublin Core (5)
 - 2) OPAC (5)
 - 4) User Profile in SDI (5)
 - 5) MIS (5)
 - 5) Proximity Searching (5)
 - 6) Alerting Services (5)

**MLI-002: Library Automation
TMA-Practical**

Coverage
Course: Library Automation
Blocks: 1 to 4
Units : 1 to 14

Course Code: MLIL-002
Assignment Code: AST/TMA-P/Jan. & July 2020

Total Marks: 50

General Instructions for Practical Assignment:

- i) Documents, data, database, etc. to work on for the practical assignments will be provided by the Counsellor/Practical Supervisor in the Study/Tele Learning Centre.
 - ii) You are required to do the practical assignment in the Study/Tele Learning Centre. Evaluation of the assignment will be done by the Counsellor/Practical Supervisor on the spot.
 - iii) Make Screen Captures for all the answers and save them in one file. The Counsellor/ Practical Supervisor will evaluate these screen captures and give marks accordingly.
 - iv) All questions are compulsory.
-

1.(a) Create a database for cataloguing books with the following particulars. (15)

(i) The world of chemistry by Henry Ornd. 2nd ed. published by

Charles E Merrill from Columbus in 1984. call No. 540 D643D. Pages vi,560 Acc.No. 98.

(ii) Architecture by Konard Klienkecht. Published from Cambridge by Cambridge University Press in 1986. Call No. 720 K673D. Pages Viii, 206 Acc. No. 017586

(iii) Planning and scheduling of production systems methodologies and applications by A.Artiba and S.E.Elmaghreby. Published from London by Chapman and Hall in 1997. Pages X, 367. Call No. 658.503 P691. Acc. No. 053371.

iv) Trends in Political Theory. Edited by Stephen A. Resnik and Richard D. Wolff. Published from New York by Routledge in 2006. Call No.320.N42.Pages xiv, 418. Acc.No. 063385.

(v) Urban Flood Management. Edited by Szollosi-Nagy and C.Zaven Bergen. Published from New York by A.A. Balkema Publishers in 2005. Call No. 306.34936 Url. Pages vi, 147. Acc. No. 061868.

(b) (i) Generate catalogue cards for any two books. (4)

(ii) Generate spine labels for any two books. (4)

(iii) Generate a list of books by class numbers. (2)

2. (a) Create a database with the following particulars of suggestions for new serials 10 to be subscribed for one year from 01.04.2010 to 31.3.2011. (15)

- (i) Accounting and Business Research Published 5 times a year from London by Institute of chartered Accountants in England and Wales. Requested by Dr. A.K. Kesarwani.
- (ii) Agricultural situation in India. Published monthly from Delhi from Govt. of India. suggested by Dr. Sanjay, Department of Agriculture.
- (iii) Library Trends, Published from Illirois by University of Illirois. Quarterly publication. Suggested by Dr. kiran Walia, Department of Library and Information science
- (iv) Journal of American Society of Information Science and Technology Published from U.S. by American Society of Information Science Published quarterly. Requested by Dr. Anil Singh, Department of Library and Information Science.
- (v) Management Review. Published twice a year from Bangalore by IIM, Bangalore. Requested by Dr. Anita Garg.

- (b) (i) Select any three titles for approval. (2)
- (ii) Place order for approved journals. (2)
- (iii) Generate the list of publishers. (2)
- (iv) Generate the intimation letters of approved letters. (2)
- (v) Generate a list of rejected journals. (2)

NB: The questions are based on the software package SOUL, which will be made available to you at the Study/Tele Learning Center.

**MLI-003: Information Systems
TMA-Theory**

Coverage

Course: Information Systems

Blocks: 1 to 4

Units: 1 to 14

Course Code: MLI-003

Assignment Code: AST/TMA-T/ Jan. & Jul. 2020

Total Marks: 50

1). Answer **any two** of the following in not more than 1000 words each

- 1) Define the concept 'information retrieval system'. Describe the models of information retrieval. (15)
- 2) Discuss the structure, design and development of a Management Information System. (15)
- 3) Define Expert Systems. Describe in detail their structure and major components. (15)

II) Answer **any four** of the following in not more than 500 words each.

- 1) Describe the role of a system analyst. (5)
- 2) Discuss the major issues involved in developing digital libraries. (5)
- 3) Briefly describe Boolean search. (5)
- 4) Explain the steps involved in system design process. (5)
- 5) Explain the concept of key in data management. (5)
- 6) Describe the basis of artificial intelligence and the key areas of its application. (5)

**MLI-003: Information Systems
TMA-Practical**

Coverage

Course: Information Systems

Blocks: 1 to 4

Units: 1 to 14

Course Code: MLI-003

Assignment Code: AST/TMA-P/ Jan. & Jul 2020

Total Marks: 50

General Instructions for Practical Assignment:

i).Documents, data, database, etc. to work on for the practical assignments will be provided by the Counsellor/Practical Supervisor in the Study/Tele Learning Centre.

ii).You are required to do the practical assignment in the Study/Tele Learning Centre. Evaluation of the assignment will be done by the Counsellor/Practical Supervisor on the spot.

iii).Make Screen Captures for all the answers and save them in one file. The Counsellor/ Practical Supervisor will evaluate these screen captures and give marks accordingly.

iv). Attempt the questions using SQL commands or MS – Access.

v). All questions are compulsory.

1) Design a blank database “LIBRARY” using MS-ACCESS and add to it the following tables: (15)

(i) JOURNALS

(ii) VENDORS

Add the following fields in the ‘JOURNAL table in the ‘Design View’

(a) JOURNAL_ID Auto Number

(b) JOURNAL_TITLE Text 255 Null Not Allowed

(c) JOURNAL_SPONSOR Text 255 Null Not Allowed Now

add 15 records in it using Data Sheet View.

2) Add the following fields in the Table ‘SUBJECT’ – SUBJECT_ID, SUBJECT_NAME, AUTHOR_ID.
Add 15 records in the table. (15)

3) Make a relationship of JOURNAL_ID field in VENDORS table to the JOURNALS table using ‘Look Up Wizard’ in Design View. (5)

4) Design E-R diagram for the database ‘DOCUMENTS’ to show relationship among the tables. (5)

5) Add 15 records in VENDORS table in Data Sheet View? (10)

MLI-004: Networking and Internet Technology
TMA-Theory

Coverage
Course: 004 (Networking and Internet Technology
Blocks: 1 to 3
Units: 1 to 14

Course Code: MLI-004
Assignment Code: AST-4/TMA-T/ Jan.& Jul.2020

Total Marks: 50

I) Answer *any two* of the following **in not more than 1000 words each.**

- 1) Identify the components of a computer network and describe their functions. (15)
- 2) Make a comparative study of Internet, Intranet and Extranet. (15)
- 3) Describe the salient features of Resource Sharing Guidelines formulated by IFLA. (15)

II) Answer *any four questions in not more than 500 words each.*

- 1) Describe different types of Network Topology. (5)
- 2) What is ISDN? Describe its various devices. (5)
- 3) What is NOS? Describe its functions. (5)
- 4) Discuss how information technology can be useful for inter library loan services. (5)
- 5) Discuss the methods of electronic document delivery service. (5)
- 6) Describe various communication network protocols. (5)

**MLIL-004: Networking and Internet Technology
TMA-Practical**

Coverage

Course Code: MLIL-004

Course: 004 (Networking and Internet Technology)

Assignment Code: AST-4/TMA-P/ Jan. & Jul.2020

Blocks: 1 to 3

Units : 1 to 14

Total Marks: 50

General Instructions for Practical Assignment:

- i) Documents, data, database, etc. to work on for the practical assignments will be provided by the Counsellor/Practical Supervisor in the Study/Tele Learning Centre.
- ii) You are required to do the practical assignment in the Study/Tele Learning Centre. Evaluation of the assignment will be done by the Counsellor/Practical Supervisor on the spot.
- iii) Make Screen Captures for all the answers and save them in one file. The Counsellor/ Practical Supervisor will evaluate these screen captures and give marks accordingly.
- iv) All questions are compulsory.

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- 1) Enumerate the steps involved in setting-up network neighbourhood to share printers and files. (10)
 - 2) Identify the union catalogue of any two libraries and information networks from Internet and explore their scope. (10)
 - 3) Identify library websites (minimum 5 Indian) and highlight their common services. (10)
 - 4) Compare the features of the websites as identified at Question no. 3. (10)
 - 5)
 - a) Create e-mail id of your own in Hotmail and Yahoo. (4)
 - b) Generate a small paragraph in Word and send it as an attachment from Hotmail address to Yahoo address. (6)

**MLI-005: Internet Resources
TMA-Theory**

Coverage
Course: Internet Resources
Blocks: 1 to 2
Units: 1 to 7

Course Code: MLI-005
Assignment Code: AST/TMA-T/Jan. & Jul.2020

Total Marks: 50

D) Answer *any two* of the following in *not more than 1000 words each*.

- 1) Explain the terms 'Portal', 'Vortal', and 'Hortal'. Describe some of the important meta resources available on the net. (15)
- 2) Enumerate the types of electronic resources available on the Internet. Describe electronic primary resources with examples. (15)
- 3) What is a digital library? Describe the methods of organising digital objects in a digital library. (15)

Answer any four of the following in not more than 500 words each.

- 1) Briefly describe the steps involved in building a digital library. (5)
- 2) Discuss how content analysis is an important criterion for evaluating Internet information resources. (5)
- 3) Describe data archives and data services available in the area of humanities.(5)
- 4) What steps will you take to retrieve information on the Internet? (5)
- 5) How can electronic resources be preserved in the digital world? (5)
- 6) Discuss how social scientists keep themselves up-to-date with new information resources on the Internet. (5)

**MLIL-005: Internet Resources
TMA-Practical**

Coverage
Course: Internet Resources
Blocks: 1to2
Units: 1 to 7

Course Code: MLIL-005
Assignment Code: AST/TMA-P/Jan.&Jul.2020

Total Marks:50

General Instructions for Practical Assignment:

- i) Documents, data, database, etc. will be provided by the Counsellor/Practical Supervisor in the Study/Tele Learning Centre to work on practical assignment.
 - ii) You are required to do the practical assignment in the Study/Tele Learning Centre.
 - iii) Make Screen Captures for all the answers and save them question wise in one file. Wherever necessary also save the output in MS Word. The Counsellor/Practical Supervisor will evaluate these Screen Captures/ MS Word files and give marks accordingly.
 - iv) All questions are compulsory.
-

- I) Select any five LIS journals available through Sage publisher (20)
 - Write down their URL's indicating their components.
 - Find out the Impact Factor of these five journals.
 - Save the abstracts and list of references of any five articles by taking one each from the five selected journals.
 - Save the output in one Folder titled 'LIS Sage Journals'.
- II) Find out five institutional repositories in India. (20)
 - Write down their URL's indicating their components.
 - List the subject areas covered by the repositories.
 - List the most recent submissions.
 - Make a list of its contributors.
- III) List at least five Indian institutions that are providing access to their resources through web OPAC. (15)
 - Write their website addresses.
 - Browse any one Web OPAC.
 - Search through OPAC any key word of your choice.
 - Save the result in MS-Word document.

**MLI-006: Content Development
TMA-Theory**

Coverage

Course Code: MLI-006

Course: Content Development

Assignment Code: AST-6/TMA-T/ Jan.&Jul 2020

Blocks: 1 to 2

Units: 1 to 10

Total Marks: 50

I) Answer *any two* of the following in *not more than 1000 words each*.

- 1) Describe the characteristic features of different types of Web documents and the parameters by which they can be evaluated. (15)
- 2) What are the aspects to be kept in view in content development of electronic and internet resources? Discuss the parameters and guidelines for context setting in this regard. (15)
- 3) What is IPR? Explain its need and importance in the present Internet era. (15)

II) Answer *any four* of the following in *not more than 500 words each*.

- 1) Describe the basics of Z39.50. (5)
- 2) Discuss the contribution of Electronic Text Encoding and Interchange (TEI) in content development. (5)
- 3) Discuss 'Internet as an information system model'. (5)
- 4) Discuss the role of libraries in Knowledge management. (5)
- 5) Discuss the salient features of W3C (5)
- 6) Discuss the essential features of HTML, XML and DHTML. (5)

**MLIL-006: Content Development
TMA-Practical**

Coverage

Course Code: MLIL-006

Course: Content Development

Assignment Code: AST-6/TMA-P/ Jan.&Jul 2020

Blocks: 1 to 2

Units: 1 to 10

Total Marks: 50

General Instructions for Practical Assignment:

- i) Documents, data, database, etc. to work on for the practical assignments will be provided by the Counsellor/Practical Supervisor in the Study/Tele Learning Centre.
- ii) You are required to do the practical assignment in the Study/Tele Learning Centre. Evaluation of the assignment will be done by the Counsellor/Practical Supervisor on the spot.
- iii) Make Screen Captures for all the answers and save them in one file. The Counsellor/ Practical Supervisor will evaluate these screen captures and give marks accordingly.
- iv) All questions are compulsory.

-
- 1) Prepare a metadata for the following document using Dublin Core and HTML. (15)

Jones, Stephen : Own the whole bird flu survival guide. Queensland, Stephen Jones, 2005; 25 pages. (Subject – Medicine, Influenza)

(Source: <http://www.e-books.co.in/search.php?keywords=medicine>)

- 2) Prepare the entry for “<http://qpaper.ignou.ac.in/Paperindex.htm>” according to field 856 of Marc 21. (10)
- 3) From the following information design and develop a Website for National Centre for Science Information with the facilities of navigation to two web pages and home page. The homepage should have following features. (25)
 - a) menu button on left side

- b) heading in a large font in the body part of the document
- c) textual matter is left justified
- d) graphic links to documents within and outside of the page (you may use table layout for designing the Web page.)

- The National Centre of Science Information (NCSI) was established at the Indian Institute of Science, Bangalore to make available the world class scholarly information to the scientific community in India. It provides varieties of electronic information services to its users. These services are Intranet and Internet access to bibliographic databases, open access resources on Internet, e-print archive, document delivery service, alerting services - Infowatch and online access to 11,000 e-books. It publishes Info Watch, a monthly electronic news letter. NCSI offers a training programme on Information and Knowledge Management of 18 month's duration. The course contents are management of e-information services, digital libraries, knowledge management etc. Selected candidates receive a monthly scholarship. NCSI offers Project and Consultancy services. Some of the projects are Development of OAI – based Institutional Repository Services in India, Scientific Journal Publishing in India, Development of Full Text Database on biomedicine, Development of K-library for ICICI Knowledge Park etc. In 2006 it conducted workshop on Setting up and Maintaining Institutional Repositories and Scientific Journal Publishing in India. Prof. N.V. Joshi is the present Chairman of NCSI.

**MLI-007: Programming
TMA-Theory**

Coverage

Course Code: MLI-007

Course: 007 (Programming)

Assignment Code: AST-7/TMA-T/ Jan. & Jul.2020

Block: 1

Total Marks: 50

I) Answer *any two* of the following in *not more than 1000 words each*,

- 1) What is System Development Life Cycle? Explain its stages. (15)
- 2) Write an algorithm to accept a 3 digit number and find the sum of its digits. (15)
- 3) What is a flow chart? Explain the various symbols of a flow chart. (15)

II) Answer *any four* of the following in *not more than 500 words each*.

- 1) Describe various elements of a system (5)
- 2) What are the various skills a System Analyst must possess? (5)
- 3) What are the characteristics of an efficient algorithm? (5)
- 4) Write an algorithm which accepts 5 numbers and sort them in ascending order. (5)
- 5) What is programming? Explain the steps of programming. (5)
- 6) Explain the different strategies available for problem solving. (5)

**MLIL-007: Programming
TMA-Practical**

Coverage

Course Code: MLIL-007

Course: Programmin

Assignment Code: AST-7/TMA-P/ Jan.& Jul.2020

Blocks: 2 to 4

Units: 4 to 24

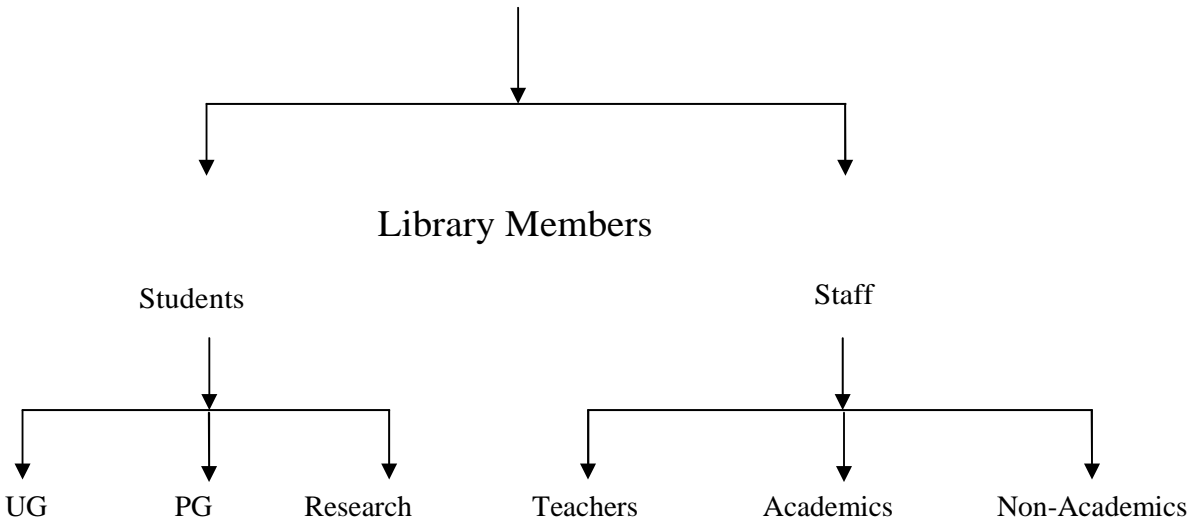
Total Marks: 50

General Instructions for Practical Assignment:

- i) Compilers to work on for the practical assignment will be provided by the counsellor/practical supervisor in the Study/Tele Learning.
- ii) You are required to do the practical assignment in the Study/Tele Learning Centre. Evaluation of the assignment will be done by the Counsellor/Practical Supervisor on the Spot.
- iii) Attempt either Group A (C++) or Group B (Visual Basic) or Group C (Java).
- iv) For Each C++ and Java program, students are required to design a class construct.
- v) All questions are compulsory.

Group A: (C++)

- 1) Design and implement the following class hierarchy in C++: (20)



Your implementation should include:

- a) Member variables
 - b) Constructor and Destructor
 - c) A member function that can display the names of all in a specific category of members
- 2) Create a database of the following items of derived class using C++: (10)
- Name of the Journal
 - Frequency of the Journal
 - Country of Publication
 - Name of the Publisher
 - Price of the Journal
 - ISSN of the Journal
- 3) Write a program to calculate the overdue charges on late returning books in a library. Use the following data for the calculation of overdue charges: (10)

No. of days	Amount to be charged
< 30	No fine
31-45	Re 1/day
46-60	Rs 2/day
61-90	Rs.3/day
> 90	Rs 500 + Rs. 5/day

- 4) Write a program to find out the lowest and the highest prices amongst seven books. Print the lowest and the highest prices with appropriate message. (10)

OR

Group B: (Visual Basic)

- 1) Write a program with the following table using appropriate VB elements. The data provided in second column of the table are not exactly related to data in first column. The exact match is: “1 = d; 2 = c; 3 = a; 4 = e; and 5 = b”. When a user clicks on ‘submit’ button, the program should rearrange the data with exact matches as mentioned above: (15)

Title of the book	Name of the Author
1) Colon Classification	a) Minnie Earl Sears
2) Dewey Decimal Classification	b) Library of Congress
3) Sears List of Subject Headings	c) Melvil Dewey
4) Universal Decimal Classification	d) S R Ranganathan
5) Library of Congress Classification	e) Paul Otlet and Henri la Fontaine

- 2) Write an event procedure that accepts a string as input and displays the words in it in separate lines. (10)

For example, if input : WE ARE PGDLAN STUDENTS OF IGNOU, then the

Output : WE
ARE
PGDLAN
STUDENTS
OF
IGNOU

- 3) Create a form, which takes input base, diameter of a circle and outputs its area in a text box. (10)
- 4) Design a menu interface as shown below using the Menu Editor: (15)

<u>F</u>ile	<u>E</u>dit	<u>V</u>iew		
Add Picture <u>S</u> hortcut	<u>U</u> ndo Ctrl+Z	<u>T</u> humbnails	Ctrl+T	
<u>L</u> ocate Picture	<u>R</u> edo Ctrl+Y	<u>F</u> ilmstrip	Ctrl+B	
<u>S</u> ave	Discard <u>C</u> hanges	Single <u>P</u> icture	Ctrl+G	
Save <u>A</u> s	Select All	<u>S</u> hortcuts		
Save All		Show File <u>N</u> ames		
<u>E</u> xport				
<u>P</u> rint				

OR

Group C: (Java)

1. Write a Java program to create a base class named *User Class* for a library and derive other categories of users like Students, Academics, Non-Academics, etc. You should use *Super* and *This* keywords at appropriate place in your program. (15)
2. Write a Java program which asks for the name of the first author of a book. Print the first author name according to AACR. For example, if input is Dilip Kumar Mishra, then the output should be Mishra, Dilip Kumar. (20)
3. Write a Java program to prepare a list of books available in a library. (15)