**DIPLOMA IN LIBRARY SCIENCE & INFORMATION MANAGEMENT**

**FOURTH SEMESTER**

| Course Title: **Internet Based Information Resources** | Course Code: **15LB43T** |
|---|---|
| Type of course: **Theory** <br> **CIE – 25 Marks** | Total Contact Hours: **52** <br> **SEE – 100 Marks** |

**PRE REQUISITE**: Basic knowledge of information resources

**COURSE OBJECTIVES:**

1. Understand Multimedia as an effective means of communication.
2. Know the concept of database and its use in maintaining the records.
3. Compare the online databases available in the field of Science & Technology.
4. Enumerate the Online databases available in the field of Social Sciences and Humanities.
5. State the importance of Information Security to overcome the threats
6. Know the use of mobile apps in day to day life.

| UNIT NOS | CONTENTS | NO OF HRS |
|---|---|---|
| 1. | Multimedia Resources | 08 |
| 2. | Data Base Management System | 06 |
| 3. | Online databases in Science and Technology | 10 |
| 4. | Online databases in Social Sciences and Humanities | 10 |
| 5. | Information Security Issues | 08 |
| 6. | Mobile Application  Software's, Internet for Lifelong  Learning | 10 |

**UNIT 1**    **Multimedia Technology**
Introduction to Multimedia- Concept, Meaning, Definition, Characteristics, Categories of Multimedia, Application of Multimedia,  Issues of Multimedia Documents in Libraries.

**UNIT 2**    **Data Base Management System (DBMS)**
Concept of Data Base, Types, Design, Structure, Organisation and, Acquaintance with RDBMS Softwares.

**UNIT 3**    **Online databases in Science and Technology**
Meaning,   Categories of Online Databases-Full Text, Image, Bibliographic Database,  (Search Engines, Discipline Oriented Databases - 2 exemplary databases in the field of Science and Technology(AGRIS/AGRICOLA, Web of Science(Science Citation Index, Social Science Citation Index,)

**UNIT 4**    **Online databases in Social Sciences and Humanities**
Social Sciences and Humanities (Arts and Humanities Citation Index, POPLINE, LISA, ERIC)

**UNIT 5      Information Security Issues**
Information Security- Meaning, Definition,  Basic  Principles , Threats for Information  Security,  Methods  and  techniques  for  safeguarding  the Information. Cryptography  Techniques for Information Security.

**UNIT 6      Internet  for  Lifelong  learning, Mobile Application Software's**
Online E-learning Websites (Free and Paid), Merits and Demerits of    E-learning, Web learning Facilities. Mobile Apps- Meaning, Providers of Mobile Apps, Usage of Mobile Apps

**COURSE OUTCOME:** At the end of the course the student will be able to:

1. Apply Multimedia for Information resources in Libraries.
2. Create database for information resources/users.
3. Utilize the available Science and Technology Databases in Information Services.
4. Utilize the available Social Science and Humanities online database for Information Services.
5. Use the software to safeguard the Information.
6. Adopt various mobile apps for information Management in different situations.

**MAPPING**

Course outcomes with program outcomes and specification table with hours and distribution of marks with cognitive level

| Course outcomes | Mapped PO | Teaching Hours | Distribution of Theory Marks as per Cognitive levels | | | Total marks |
|---|---|---|---|---|---|---|
| | | | **R** | **U** | **A** | |
| 1 | 1,3,4,5,7,8 | 08 | 5 | 10 | 5 | 20 |
| 2 | 1,2,8 | 06 | 5 | 10 | - | 15 |
| 3 | 1,2,3,4,5,6,7 | 10 | 5 | 10 | 15 | 30 |
| 4 | 1,2,3,4,5 | 10 | 5 | 15 | 10 | 30 |
| 5 | 1,7,10 | 08 | 5 | 10 | 05 | 20 |
| 6 | 1,2,3,4,5,6,8 | 10 | 5 | 15 | 15 | 30 |

**R-Remember; U-Understanding; A-Application**
**Course with program outcomes Level mapping**

| Name of the course | Program Outcomes | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| Internet Based Information Resources | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 1 | 1 |

**Note:** I.A. test shall be conducted for 20 marks. Average marks of three tests shall be rounded off to the next higher digit.

## COURSE ASSESSMENT AND EVALUATION

<table>
<tr><td colspan="3" rowspan="2">What</td><td rowspan="2">To Whom</td><td rowspan="2">Frequency</td><td colspan="2">Max Marks</td><td rowspan="2">Evidence Collected</td><td rowspan="2">Course Outcomes</td></tr>
<tr><td>Theory</td><td>Practical's</td></tr>
<tr><td rowspan="6">DIRECT ASSESSMENT</td><td rowspan="3">CIE- Continuous Internal Assessment</td><td>I A Tests</td><td rowspan="5">Students</td><td>**Theory:** Three IA tests for theory (Average marks of three IA tests are considered)</td><td>20</td><td></td><td>Blue Books</td><td>1 to 6</td></tr>
<tr><td>Class room Assignments</td><td>Class room Assignments</td><td>05</td><td></td><td>Log of activity</td><td>1</td></tr>
<tr><td></td><td>**TOTAL**</td><td>25</td><td></td><td></td><td></td></tr>
<tr><td>SEE- Semester End Examination</td><td>End Exam</td><td>End Of the Course</td><td>100</td><td></td><td>Answer Scripts</td><td>ALL CO's</td></tr>
<tr><td rowspan="2">INDIRECT ASSESSMENT METHODS</td><td colspan="2">Student Feedback on course</td><td rowspan="2">Students</td><td>Middle Of The Course</td><td colspan="4">Feed Back Forms</td></tr>
<tr><td colspan="2">End of Course Survey</td><td>End Of The Course</td><td colspan="4">Questionnaire</td></tr>
</table>

**Note:** I.A. test shall be conducted for 20 marks. Average marks of three tests shall be rounded off to the next higher digit.

*Note to IA verifier: The following documents to be verified by CIE verifier at the end of semester*

1. Blue books (20 marks)
2. Student suggested activities report for 5 marks
3. Student feedback on courses regarding Effectiveness of Delivery of instructions & Assessment Methods

**Question for CIE and SEE will be designed to evaluate the various educational components, such as:-**

| | | |
|---|---|---|
| Remembering and understanding | : | 45% weight age |
| Applying the knowledge acquired from the course | : | 40% weight age |
| Analysis | : | 15% weight age |

**MODEL OF RUBRICS/CRITERIA FOR ASSESSING STUDENT ACTIVITY**

| RUBRICS FOR ACTIVITY (5 marks) | | | | | | |
|---|---|---|---|---|---|---|
| **Dimension** | **Unsatisfactory** | **Developing** | **Satisfactory** | **Good** | **Exemplary** | **Student Score** |
| | **1** | **2** | **3** | **4** | **5** | |
| **Collection of data** | Does not collect any information relating to the topic | Collects very limited information; some relate to the topic | Collect much information; but very limited relate to the topic | Collects some basic information; most refer to the topic | Collects a great deal of information; all refer to the topic | Ex:<br><br>4 |
| **Fulfil team's roles & duties** | Does not perform any duties assigned to the team | Performs very little duties but unreliable | Performs very little duties | Performs nearly all duties | Performs all duties of assigned team roles | 5 |
| **Shares work equally** | Always relies on others to do the work | Rarely does the assigned work; often needs reminding | Usually does the assigned work; rarely needs reminding | Normally does the assigned work | Always does the assigned work without having to be reminded | 3 |
| **Listen to other Team mates** | Is always talking; never allows anyone else to speak | Usually does most of the talking; rarely allows others to speak | Talks good; but never show interest in listening others | Listens, but sometimes talk too much | Listens and speaks a fair amount | 2 |
| Average / Total marks=(4+5+3+2)/4=14/4=3.5=4 | | | | | | |

**Note: This is only an example. Appropriate rubrics/criteria may be devised by the concerned faculty (Course Coordinator) for assessing the given activity.**

# FORMAT OF IA TEST QUESTION PAPER (CIE)

| Test/Date and Time | Semester/year | Course/Course Code | Max Marks |
|---|---|---|---|
| Ex: I test/6 <sup>th</sup> weak of sem 10-11 Am | IV SEM | **Internet Based Information Resources** | 20 |
| | Year: II | Course code:15LB43T | |

Name of Course coordinator :                                             Units:__

CO's:____

| Question no | Question | MARKS | CL | CO | PO |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

**Note: Internal choice may be given in each CO at the same cognitive level (CL).**

**REFERENCE:**

1. Wikipedia-Online free encyclopaedia (www.wikipeadia.org)
2. DESIDOC Bulletin of Information Technology
5. SRELS Information Management Journal.
6. Susan Sharplex Smith: Web- Based Instruction: A Guide for Libraries.
7. The use of Web in Libraries, Edited by Kusum Verma.
8. Irene E McDermott: The Librarian's Internet Survival Guide: Strategies for the High-tech Reference Desk.
9. H.E. Prasanna Kumar and Mahesh V. Mudhol: Multimedia: Its application in Library and Information Science
10. Library Techniques and Technologies: Perspectives in Multimedia Library Development, Edited by S.N. Paruthi, Kanishka (3 Vols-set),1997.
11. Ajay Pratap Singh and T A V Murthy: Library without walls.
12. R.S. Nagi: A text book of Databases Management system.
13. Dalgleish A, Hall R: Uses and Perceptions of the www in an information seeking environment.
14. Ashish Singh: Multimedia and web technology, 2015.
15. C.R. Ramamurthy: Information Security : A Source Book for Librarians
15. www. igmlnet.uohyd.ac.in, www.nap.edu, www. online , www. sagepub.com, www. guides.library.ucsc.edu
16. http://eprints.rclis.org/

# MODEL QUESTION PAPER

Time: 3 Hours                                             Max. Marks: 100

**Instructions**:

1. Question Paper consists of TWO Sections – Part – A, Part – B.
2. Answer any SIX Questions from a set of 9 questions in PART- A, Each question carries 5 marks.
3. Answer any SEVEN questions from a set of 10 questions in PART – B, Each question carries 10 marks.

## PART – A

### A. REMEMBERING

1. List the categories of multimedia resources

2. List the various software's available for database creation
3. Define mobile Apps. List any ten mobile apps you are using

### B. UNDERSTANDING

4. Describe the structure of database
5. Discuss any five major online databases available in Science and Technology field.
6. Discuss any five major Online Databases available in Social Sciences, Humanities field

### C. APPLICATION

7. Shows the threats for information securities.
8. Differentiate Encryption and  Decryption
9. Prepare any five online e-learning websites for resources

## PART – B

### A. REMEMBERING

1. a. Define multimedia.
   b. Discuss the features/characteristics of multimedia resources
2. a. Describe the structure and content of any two Arts & Humanities Citation Index
   b. Explain any two Social Sciences Citation Index.
3. Define Cryptography. Explain the techniques of Cryptography

### B. UNDERSTANDING

4. Explain the major Information security threats and measure to safeguard the Information on internet
5. Discuss how mobile apps help us by providing the day to day utility oriented information
6. Record the structure and contents of AGRICOLA/ Web of Science/ Science Citation Index

### C. APPLICATION

7. Analyse the effectiveness of multimedia in teaching learning activities
8. Examine the areas where cryptographic techniques are implemented in Information Security

9.  Show the efforts of UNESCO in promoting lifelong learning
10. a. Differentiate between DBMS &RDBMS.
    b. Which one if the above is more preferred, why?

## Model Question Bank

1.  Discuss the hardware and software required in using multimedia resources
2.  Define Database. List the types of Databases
3.  Explain virus. List any five antivirus software's
4.  Illustrate with a diagram how encryption and decryption is implemented in Cryptography
5.  Illustrate how internet supports the lifelong learning for individuals