

QP Code: 23/PT/12/VI

**POST-GRADUATE COURSE**  
**Term End Examination : June, 2023 / December, 2023**  
**MASTER OF LIBRARY & INFORMATION SCIENCE**  
**PAPER - VI**  
**INFORMATION TECHNOLOGY : APPLICATIONS**

Time : 4 hours

Full Marks : 100

( Weightage of Marks : 80% )

**Special credit will be given for precise and correct answer. Marks will be deducted for spelling mistakes, untidiness and illegible handwriting. The figures in the margin indicate full marks.**

**GROUP - A**

Answer any **two** of the following questions :

18 × 2 = 36

1. What is Resource sharing through network ? Briefly discuss the benefits and constraints of Resource sharing. Which types of infrastructure permit to opt Resource sharing provision in a library ?  
2 + 8 + 8
2. Discuss the different stages of planning & implementation of library automation for setting up a library system. 18
3. “An efficient computer based serial control system is a group of interdependent serial control sub-system.” — Focusing on the statement discuss various sub-systems of computer-based serial control system of a library. 18
4. What do you mean by retrospective conversion of library materials ? Discuss the steps involved in retro-conversion process. 6 + 12

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**GROUP – B**

Answer any **three** of the following questions : 12 × 3 = 36

5. What is OSI Reference model ? Describe briefly the role of each layer in OSI Reference model. 3 + 9
6. Write a comparative study on any two library management software highlighting ease of usage by the library personnel. 6 + 6
7. Write in brief about the various Bibliographic standards for effective retrieval and exchange of library materials. 12
8. Make a comparative study on any *two* of the following : 6 × 2 = 12
  - a) Hub and Switch
  - b) Repeater and Router
  - c) Bridges and Gateway.
9. Elaborately discuss on six most popular sorting algorithms for searching and retrieval purpose. 12
10. What do you mean by flowchart ? Draw a flowchart to find the largest of three numbers A, B and C. 3 + 9

**GROUP – C**

Write short notes on any **four** of the following questions : 7 × 4 = 28

11. UNIX / LINUX file system 7
12. Barcode 7
13. Authority data 7
14. MySQL 7
15. Open Access Initiatives 7
16. Dynamic Link Libraries ( DLI ) vs Common Gateway Interface (CGI) 7
17. OPAC 7
18. Networking Hardware. 7