POST-GRADUATE COURSE
Term End Examination – Dec., 2013 & June, 2014

MASTER OF LIBRARY AND INFORMATION SCIENCE

Paper-VI : Information Technology : Applications

Time : Four Hours   **Full Marks : 100**
(Weightage of Marks : 80%)

Special credit will be given for accuracy and relevance in the answer. Marks will be deducted for incorrect spelling, untidy work and illegible handwriting. The weightage for each question has been indicated in the margin.

GROUP – A

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

18 × 2 = 36

1. a) "Serials control is possibly the most critical task of library automation". — Elucidate the statement. 6

   b) Describe the activities of different sub-systems of computerized serials control. 12

2. a) Classify "Operating systems" with example for each group. 6

   b) Illustrate the architecture of Unix-like operating systems. 12

3. What is TCP/IP ? Explain the role of each layer of OSI reference model. 4 + 14

4. Define DBMS. Explain, in brief, the different data models related to DBMS. 3 + 15

GROUP – B

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

12 × 3 = 36

5. What is CDS/ISIS ? Enumerate the salient features of CDS/ISIS as bibliographic DBMS.

2 + 10

6. What is Flow chart ? Explain it with a suitable example. Make a comparative study of Low-level and High-level language in computer programming. 3 + 9

7. Explain the application of standards in the following areas of library automation —

    (i) Exchange format

    (ii) Distributed cataloguing.   6 + 6

8. What is MARC 21 ? Explain the structure of a MARC record with illustration.   2 + 10

9. Discuss the role of Unicode in developing multilingual bibliographic databases.   12

10. 'Library networks help in resource sharing' — Elucidate.   12

GROUP – C

Answer any *four* of the following :   7 × 4 = 28

11. What is Retro-conversion ? Enumerate the steps involved in retro-conversion process.   2 + 5

12. Explain the role of Electronic Data Interchange (EDI) in computerized acquisition sub-system.

13. Write a short note on data communication devices as computer network hardware.

14. Discuss 'File/Directory permission' method in Unix-like operating systems.

15. Write the features and advantages of a typical Web-OPAC.

16. Discuss the salient features of any library automation software known to you.

17. Explain the Leader, Linker and Locator in High-level programming language.

18. Write a short note on impact of Open Access Initiatives in library services.

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