POST GRADUATE DIPLOMA IN LIBRARY AUTOMATION AND NETWORKING (PGDLAN)

Term-End Examination

December, 2016

MLI-004 : NETWORKING AND INTERNET TECHNOLOGY

Time : 2 hours   *Maximum Marks : 50*

(Weightage : 40%)

Note :   *Answer all questions. All questions carry equal marks. Illustrate your answers with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.*

1.1   What is TCP/IP ? Discuss the tasks related with four layers of TCP/IP. Mention the default port numbers for the following layer 4 protocols - Telnet, FTP, SMTP and HTTP.   **2+6+2=10**

OR

1.2   What do you mean by Asynchronous Transfer Mode (ATM) ? Describe the structure of an ATM cell with suitable illustration.   **3+7=10**

2.1   Define 'Resource Sharing'. What are the components of a model resource sharing network ? Discuss.   **3+7=10**

OR

2.2   What are the essential standards and protocols required for developing a library network ? Discuss any two services of INFLIBNET.   **6+4=10**

3.1 What do you mean by 'Internet Architecture' ? Discuss different options for internet connectivity. Which connectivity option will you suggest for a large university library system ?   **2+6+2=10**

OR

3.2 What are the roles of protocols in a heterogenous network system like Internet ? Discuss the use of any two of the following protocols in Internet :
(a)   HTTP;   (b)   SMTP;   (c)   FTP   **2+8=10**

4.1 What do you mean by web searching tools ? Make a comparative study of 'Subject directory', 'Search engine' and 'Meta search engine' as web searching tools.   **1+9=10**

OR

4.2 'Internet is the future platform for library services'. Elucidate.   **10**

5.0 Write short notes on **any two** of the following in about **250** words each :   **5x2=10**
   (a)   Domain Name System
   (b)   Library consortia
   (c)   Document Delivery Service
   (d)   XML