POST GRADUATE DIPLOMA IN LIBRARY AUTOMATION AND NETWORKING (PGDLAN)

Term-End Examination

June, 2015

00328

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 OSI reference model ? Describe the major role for each layer of OSI.   *2+8=10*

OR

1.2 What is Domain Name System (DNS) ? How is it related to IP address ? Explain the different components of the following URL –

http://www.ignou.ac.in.   *3+2+5=10*

2.1 What is Digital Subscriber Line (DSL) ? Make a comparison of ADSL, HDSL, SDSL and VDSL as variants of DSL.   *2+8=10*

OR

2.2 What is Virtual Private Network (VPN) ? Describe the functions of three essential components of a typical VPN.   *2+8=10*

3.1 Discuss the need of resource sharing. Discuss the common barriers to resource sharing in libraries.   *4+6=10*

OR

3.2 Discuss the development of library networks in India.   *10*

4.1 What do you mean by 'Network Based Information Services' ? Discuss the roles of library professionals in such an environment. *4+6=10*

OR

4.2 What is 'Meta Search Engine' ? How does it differ from a search engine ? Write down the features of Telnet and FTP services.   *2+2+6=10*

5.0 Write short notes on any *two* of the following in about 250 words each :   *5+5=10*

   (a)   TCP/IP

   (b)   Library Consortia

   (c)   XML

   (d)   ISDN