

**POST GRADUATE DIPLOMA IN LIBRARY  
AUTOMATION AND NETWORKING  
(PGDLAN)**

**Term-End Examination**

**June, 2018**

**MLI-004 : NETWORKING AND INTERNET  
TECHNOLOGY**

*Time : 2 hours*

*Maximum Marks : 50*

*(Weightage : 40%)*

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**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.*

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**1.1** What do you mean by LAN ? Explain Bus topology and Star topology. **2+8**

**OR**

**1.2** What is OSI Reference Model ? Discuss the use of router, bridge and switch in network layer of OSI model. **1+9**

**2.1** What is IP address ? How does it differ from Domain Name System (DNS) ? Explain the use of Ping, Tracert and Route commands in TCP/IP. **2+2+6**

**OR**

**2.2** What is DSL ? Discuss the advantages associated with it. Make a comparison of ADSL, HDSL and VDSL as variations of DSL. **1+3+6**

3.1 Discuss the role of ERNET as data network in India. What are the objectives and services of INFLIBNET ? 4+6

OR

3.2 Discuss the role of IAB, IETF and IANA in managing Internet. 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

OR

4.2 Describe Internet addressing systems. 10

5.0 Write notes on **any two** of the following topics (in about 250 words each) : 5+5

(a) Transmission Media

(b) Z 39.50 Protocol

(c) ISDN Services

(d) Library Consortia

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