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MLI-004

POST GRADUATE DIPLOMA IN
LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)
Term-End Examination
June, 2019

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 answer with suitable examples and diagrams wherever necessary. Write relevant question number before writing the answer.

1. What is TCP/IP ? Make a comparative study of OSI reference model and TCP/IP as communication protocol. 2, 8

Or

What is ISDN ? Discuss the devices that are required for setting an ISDN network. Differentiate BRI and PRI as basic types of ISDN services. 2, 4, 4

2. What do you mean by Asynchronous Transfer Mode (ATM) ? Describe the structure of an ATM cell with suitable illustration. 3, 7

Or

What is IP address ? Make a comparative study of three classes of IP addresses. Mention the role subnet masks in IP addressing. 2, 5, 3

3. What is a 'Library Consortia' ? How does it differ from a 'library network' ? Discuss the services of any *one* library consortia operating in India. 2, 3, 5

Or

Describe the components of a model resource sharing network. Evaluate the services provided by INFLIBNET as library network.

5, 5

4. What is Internet ? Discuss the role of the following agencies in managing internet-IAB, IETF and IANA. $2\frac{1}{2}$, $7\frac{1}{2}$

Or

Enumerate the role of SGML, HTML and XML in shaping the WWW. What are the uses of subject directory, search engine and meta search engine as web searching tools ? 5, 5

[3]

5. Write short notes on any *two* of the following in about *250* words each : 5, 5

(a) Virtual Private Network (VPN)

(b) Domain Name System (DNS)

(c) Digital Subscriber Line (DSL)

(d) Z 39.50 protocol