

2006

( July )

LIBRARY AND INFORMATION SCIENCE

( **Communication Technology and  
Digital Libraries** )

Course No. : 402

Full Marks : 75

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

Answer **all** questions

1. (a) Trace the development of telecommunication system from the earliest till date. 15

Or

- (b) What is LAN? Describe the standards and technology of Ethernet. 5+10

2. (a) What is reference model? Compare TCP/IP and OSI reference model. 5+10

Or

- (b) Define digital library. Differentiate the concept of institutional repository and digital library. 7½+7½

3. (a) What is e-document? Illustrate the various markups of electronic documents. 5+10

Or

- (b) Discuss the best practices of conversion between various document formats with suitable illustrations. 10+5

4. (a) What is internet? Illustrate the usefulness of various internet tools for library services. 5+10

Or

- (b) Describe SMTP and POP3. Exemplify the user perspective of various internet e-mail problems.  $7\frac{1}{2}+7\frac{1}{2}$

5. (a) Discuss the various potential security threats in the internet and mention the immediate remedies for each threat. 10+5

Or

- (b) In the light of helping a library user, discuss the process of locating information for a given topic using any search engine or subject directory. 5+10

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1. (a) What is communication? Describe the various modern communication media. 5+10

Or

- (b) Discuss the historical and modern functions of telecommunications. 7½+7½

2. (a) What is computer network? Describe the types of networks with suitable illustrations. 3+12

Or

- (b) What is reference model? Compare and contrast the OSI reference model and TCP/IP. 3+6+6

3. (a) What is digital library? Describe the process of creating a digital library with suitable examples. 5+10

Or

(b) Describe the facilities and requirements for digitization of a library. 15

4. (a) What is e-document? Describe the various mark-ups of electronic documents. 3+12

Or

(b) Describe the different phases of digitization process for born-digital and hard documents. 7½+7½

5. (a) Distinguish the internet from the world wide web and illustrate their usefulness in library and information services. 5+10

Or

(b) Discuss the various potential security threads in the internet. 15

2008

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**Answer all questions**

1. "The word communication [is].....the procedure by which one mind affects the other. This of course involves .... all human behaviour."

Discuss the above statement in your own words.

15

**OR**

2. Trace the development process of telecommunication from the earliest stage to date and point out how it enriches human communication.

7½+7½

3. What is protocol? Discuss any five popular network protocols. 2+13

OR

4. What is reference model? Give a comparative description of OSI reference model and TCP/IP. 2+13

5. What is network operating system? Describe the basic components of computer networks. 5+10

OR

6. What is digitization? Discuss the issues that need to be addressed during the design and implementation phases of digitization. 2+6½+6½

7. Prepare a worksheet for estimating digital reformatting costs. 15

OR

8. How would you differentiate the internet from the World Wide Web? Chronologically highlight the major events that shape the internet. 5+10

9. Who owns the internet? Discuss the role of various organizations/agencies involved in internet governance. 2+13

OR

10. What is a website? Discuss the processes and options of hosting website. 2+13

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OR

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Answer **five** questions, selecting at least **one**  
from each Unit

## UNIT—I

1. What is communication? Describe telecommunication and communication technologies. 5+5+5
2. Describe network switching in three broad categories. 5+5+5
3. What is network protocol? Describe OSI reference model with suitable illustration. 5+10



UNIT—II

- 4. Discuss the various methods of connecting to and accessing the internet. 15
- 5. Discuss the standards and protocols of the internet giving emphasis to the contribution of AWSI/Z39 Committee. 10+5
- 6. Describe the threats associated with internet and discuss the relevant security measures. 5+10

UNIT—III

- 7. What is digitization? Discuss the need, selection and steps of digitization. 3+4+4+4
- 8. Describe I/O options and compression methods of digitization. 7½+7½

UNIT—IV

- 9. What is search engine? How do search engines work? 5+10
- 10. Describe the different categories of search engines and discuss the criteria for assessing the usefulness of search engines. 7½+7½

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