

2009

(December)

LIBRARY AND INFORMATION SCIENCE

Course No. : O-305

(Information Communication Technology)

Full Marks : 75

Time : 3 hours

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

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

CREDIT—I

1. What is communication and tele-communication? Describe the basic elements of communication according to Shannon-Weaver model (1947). 5+5+5
2. What is communication protocol? Sketch the different layers of OSI reference model and TCP/IP with proper description of the functions of each layer. 3+7+5

CREDIT—II

- 3. Describe the essential components of computer networking. 15
- 4. What is WAN? Describe circuit switching and packet switching. 5+5+5

CREDIT—III

- 5. Who owns the Internet? What are the functions of various organizations associated with Internet? 3+12
- 6. Describe PSTN, ISDN, Leased line, DSL and VSAT. 3+3+3+3+3

CREDIT—IV

- 7. Differentiate WWW from the Internet. Describe Web browsers and Web servers. 7+4+4
- 8. Describe search engines and web search formulations. 7½+7½
