2A. What is the role of IP addresses in computer networking ? Discuss different types of IP addresses in context of LAN and WAN. Discuss TCP/IP reference model with functions of it each layer. Discuss the importance of ports and protocols with reference to three popular network applications. 2+4+5+4

OR

2B. How a firewall protects computers in a campus LAN ? What are STP and UTP cables ? Discuss star topology with schematic diagram. Explain different types of data transmission modes. What is NAT ? Why is it needed in a campus LAN ? 4+1+4+3+1+2

3. Write short notes on any *two* of the following : 2x5=10

   (a) Multilingual issues in ILMS

   (b) Worldcat

   (c) OSI model

   (d) Network devices

Ex/MLDL/7.4/2019

MASTER OF LIBRARY AND INFORMATION SCIENCE (DIGITAL LIBRARY) EXAMINATION, 2019

(4th Semester)

Information Technology - II

Paper : MLDL - 7.4

Time : Two hours   Full Marks : 50

Answer *all* questions.

1A. (a) What are the advantages of using ILMS in a library ? Discuss in detail the different subsystems of an ILMS with special reference to digital library. 2+8

   (b) Discuss briefly the various standards to be supported by the modern library software. 5

OR

1B. (a) Discuss the features of KOHA and any other ILMS Software. Compare them in context of suitability in the academic libraries of India. 4+6

   (b) Would you recommend an open source ILMS for a public library in India ? Give reasons with your answer. 5