

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH/APRIL 2015

(U.G.-CCSS)

Core Course

Computer Science

CS 6B 16—COMPUTER NETWORKS

(2009–2011 Admissions)

Time : Three Hours

Maximum : 30 Weightage

I. Answer *all* questions :

- 1 In broadcast networks _____ layer is thin or nonexistent.
- 2 Which layer in the OSI reference model is responsible for the syntax and semantics of the information transmitted?
- 3 The technique of temporarily delaying outgoing acknowledgments so that they can be hooked on to the next outgoing data frame is called _____.
- 4 _____ routing algorithm uses Hello packets to learn about the neighbours.
- 5 The art of breaking ciphers is called _____.
- 6 TCP Port number 80 is reserved for _____ protocol.
- 7 In RPC technique to call a remote procedure the client program must be bound with a small library procedure called _____.
- 8 DNS stands for _____.
- 9 If _____ field is absent such cookies are called nonpersistent cookies.
- 10 With slotted aloha protocol the maximum channel utilization is _____ percentage.
- 11 The part of the E-Mail system which is responsible for manipulating mailboxes is called _____.
- 12 In a Bluetooth system an interconnected collection of piconets is called _____.

(12 × ¼ = 3 weightage)

II. Answer *all* questions :

- 13 What is the functionality of physical layer in the OSI reference model ?
- 14 What is message switching ?
- 15 What is simplex stop and wait protocol ?
- 16 What is load shedding ?

Turn over

- 17 What is flooding ?
- 18 What do you meant by Home networks ?
- 19 What do you meant by flow control in datalink layer ?
- 20 What are transposition ciphers ?
- 21 What is video compression ?

(9 × 1 = 9 weightage)

III. Answer any *five* questions :

- 22 Explain about the network hardware in detail.
- 23 What is framing ? Explain the various framing techniques.
- 24 Explain about bit map protocols.
- 25 Compare virtual circuits and Datagram subnets.
- 26 Explain the various congestion control techniques in datagram subnets.
- 27 Explain about remote procedure call technique.
- 28 Write notes on different ways of performing audio compression.

(5 × 2 = 10 weightage)

V. Answer any *two* questions :

- 29 Explain the various multiplexing techniques.
- 30 What is E-mail system ? Explain its architecture and services.
- 31 Discuss about Communication satellites.

(2 × 4 = 8 weightage)