CS-68

BACHELOR OF COMPUTER APPLICATIONS (BCA) (Pre-Revised)
Term-End Examination
June, 2017

00761

CS-68 : COMPUTER NETWORKS

Time : 2 hours   *Maximum Marks : 60*

Note : *Question number 1 is **compulsory**. Attempt any **three** questions from the rest.*

1. (a) "Internet protocol is an unreliable, best effort, connection-less protocol." Explain the meaning of the above statement.   5

    (b) Differentiate between guided and unguided transmission media. Give one example of each.   5

    (c) What does CSMA/CD stand for ? How does CSMA/CD resolve the problem of line contention ? Explain.   7

    (d) Explain sliding window protocol using selective repeat with the help of an example.   7

    (e) Discuss the necessity of ATM adaptation layer. Also, compare real-time services and non-real time services of ATM architecture.   6

2. (a) Differentiate between twisted pair, coaxial cables and optical fibers. **6**

   (b) Discuss any four important services of ISDN networks. **4**

3. (a) With suitable examples, explain simplex, half-duplex and full-duplex communication. **6**

   (b) Explain any two applications for which Flooding (type of routing) is preferred over Distance vector routing. **4**

4. (a) Explain flow control mechanisms in transport layer and data-link layer. **6**

   (b) Explain the working of Remote Procedure Call (RPC). **4**

5. Write short notes on the following : $4 \times 2\frac{1}{2} = 10$

   (a) Bridge
   (b) IEEE 802·5
   (c) Pure ALOHA
   (d) CDMA