Reg. No. :

Question Paper Code: 35802

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Fifth Semester

Information Technology

01UIT502 – COMPUTER NETWORKS

(Common to Computer Science and Engineering)

(Regulation 2013)

Duration: One hour   Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. The portion of physical layer that interfaces with the media access control sub layer is called

    (a) physical signaling sub layer   (b) physical data sub layer

    (c) physical address sub layer   (d) none of these

2. Which is the only layer of OSI layer that prevents itself from adding its own header to the data during the data transmission process?

    (a) Application layer   (b) Network layer
    (c) Physical layer   (d) None of these

3. Who is the dispatcher in the network?

    (a) Bridges   (b) Routers   (c) Hub   (d) Modems

4. FDDI stands for

    (a) Fiber device data interface   (b) Fiber distributed device interface
    (c) Fiber distributed device interchange   (d) Fiber distributed data interface

5. Header of datagram in IPv4 has

   (a) 0 to 20 bytes   (b) 20 to 40 bytes   (c) 20 to 60 bytes   (d) 20 to 80 bytes

6. ICMP is primarily used for

   (a) error and diagnostic functions   (b) addressing   (c) forwarding   (d) none of these

7. The port number which is used for Remote procedure call in UDP is

   (a) 123   (b) 111   (c) 161   (d) 25

8. The port number which is used for SMTP in TCP is

   (a) 123   (b) 111   (c) 161   (d) 25

9. Find out the order of the elements in the URL

   (a) Method, Port, Host, Path   (b) Port, Method, Host,Path
   (c) Host, Method, Port, Path   (d) Method, Host, Port, Path

10. Which one of the following is not an application layer protocol?

    (a) media gateway protocol   (b) dynamic host configuration protocol
    (c) resource reservation protocol   (d) session initiation protocol

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11.   Explain sliding window flow control and stop and wait flow control with neat diagram.   (8)

12.   Explain in detail about CSMA/CD and CSMA/CA.   (8)

13.   Explain in detail various error reporting and query messages of ICMP.   (8)

14.   Discuss TCP congestion avoidance algorithm in detail.   (8)

15.   Illustrate the classification of firewalls.   (8)

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