SUBJECT CODE NO: E-230
FACULTY OF ENGINEERING AND TECHNOLOGY
S.E.(CSE/IT) (CGPA) Examination Nov/Dec 2017
Computer Networks
(REVISED)

[Time: Three Hours]   **[Max.Marks:80]**

Please check whether you have got the right question paper.

N.B
i.   Question No.1 and 6 is compulsory.
ii.   Attempt any two questions from Q.No. 2 to Q.No.5 and Q.No.7 to Q.No.10 of each section.

SECTION-A

Q.1   Answer the following any five   10
a) Enlist network devices.
b) State types of multiplexing.
c)   Draw mesh topology.
d) What is frequency reuse pattern?
e) Define NRZ.
f) Define block coding and give its purpose.
g) List the use of computer networks.

Q.2   i.   Explain in brief networking devices.   08
         ii.   With neat diagram explain pure ALOHA.   07

Q.3   i.   Explain packet switching in datagram networks.   08
         ii.   Explain in brief two sub layers of data link layer a) DLC and b) MAC   07

Q.4   i.   With neat diagram explain Frequency Division Multiplexing(FDM)   08
         ii.   What is hamming distance for each of following code words?   07
              a) d(10000,00000)
              b) d(10101,10000)
              c) d(11111,11110)
              d) d(000,011)

Q.5   i.   Explain major functions performed by data link layer.   08
         ii.   How Internet is evolved?   07

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SECTION-B

Q.6   Define following (any five)   10
        a) count- to- infinity
        b) flooding
        c) connectionless networks
        d) user agent
        e) Browser
        f) Timeout
        g) Segment

Q.7   i.   How connection is controlled in datagram?   08
        ii.   Explain architecture of web.   07

Q.8   i.   Sketch the network diagram of consisting of router, switches, ISPs, LANs, and end nodes at   08
              transport layer.
        ii.   Explain in brief major functions performed by application layer.   07

Q.9   i.   How congestion is handled by TCP?   08
        ii.   With suitable example describe distance vector routing.   07

Q.10   i.   What is user agent? How it is used in Internet?   08
        ii.   Draw IP V4 header and explain each field of header.   07

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