ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution

WORKSHEET - 5(Answer Key)

Topic – Introduction to Computer Networking

Subject: COMPUTER SCIENCE **Class - 12** **F.M:15**

Chapter: Computer Networking **Date: 07/05/2020**

Choose the correct answer for each question: 15x1=15

1. _____ are the set of rules that govern data communication.
   a) **Protocols**
   b) Standards
   c) RFCs
   d) Servers
2. Baud rate is :
   a. Number of signal changes per second
   b. Number of bits per second
   c. Number of bytes per second
   d. Number of ASCII characters per second

3. On which factor/s do/does the channel capacity depend/s in the communication system?
   a. Bandwidth
   b. Signal to Noise Ratio
   c. Both a and b
   d. None of the above

4. The protocol that handles file transfer :
   a. TCP
   b. SMTP
   c. FTP
   d. All of these
5. Full form of SNR:
   a. Signal Noise Radar
   b. Signal to Noise Ratio
   c. Signal Noise Raised
   d. None of these

6. In cyclic redundancy checking, what is the CRC?
   a. The divisor
   b. The dividend
   c. The quotient
   d. The remainder

7. The SNR(signal to noise ratio) is expressed in:
    a. **Decibels**
    b. Hertz
    c. Bps
    d. None of these

8. In Shannon's Equation :C = W log2 (1+S/N), C refers to
    a. **Channel Capacity**
    b. Channel bandwidth
    c. Channel noise
    d. None of these

9. In reality, the channel is:
    a. Noiseless
    b. **Noisy**
    c. Both (a) and (b)
    d. None of these

10. Which one of the following is not an error handling method?
    a. CRC
    b. Checksum
    c. Parity check
    d. **None of these**

11. The capacity relationship is given by
    a) **$C = W \log_2 (1+S/N)$**
    b) $C = 2W \log_2 (1+S/N)$
    c) $C = W \log_2 (1-S/N)$
    d) $C = W \log_{10} (1+S/N)$

12. In Shannon's Equation :C = W log2 (1+S/N), S/N refers to
    a. Power of noise/ power of signal
    b. **Power of signal / power of noise**
    c. Noise in Signal
    d. None of these

13. _____ is designed to send and distribute outgoing E-Mail.
    a. TCP
    b. HTTP
    c. **SMTP**
    d. All of these

14. _____ is added to the block if it contains odd number of 1's in parity check.
    a. **One**
    b. Zero
    c. Two
    d. Three

15. CRC is based on :

a. Binary addition
b. Binary subtraction
c. <u>Binary division</u>
d. Binary multiplication

Phalguni Pramanik