



**WORKSHEET – 15**  
**TOPIC – NETWORKING**

**SUBJECT: COMPUTER APPLICATION**  
**F.M.:15**

**CLASS: XII**  
**DATE: 09.06.2020**

➤ Choose the correct option:

(1X15=15)

1) 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 these

2) This indicates the range of frequencies that a communication channel can handle with reasonable reliability:

- (a) Bandwidth                      (b) Signal to Noise Ratio                      (c) Both a and b                      (d) None of these

3) This indicates the maximum number of bits that can be transmitted through a noisy communication channel per second with minimum error:

- (a) Bandwidth                      (b) Baud rate                      (c) Channel Capacity                      (d) None of these

4) This indicates the signaling speed of the channel:

- (a) Bandwidth                      (b) Baud rate                      (c) Channel Capacity                      (d) None of these

5) The reduce in strength of transmitted signal due to energy loss is termed as:

- (a) distortion                      (b) attenuation                      (c) baud                      (d) None of these

6) Depending upon the physical property of the channel through which the data is transmitted, the overall shape of the signal can also change called:

- (a) distortion                      (b) attenuation                      (c) baud                      (d) None of these

7) The original signal gets mixed with undesirable signals which are collectively known as \_\_\_\_\_:

- (a) distortion                      (b) attenuation                      (c) baud                      (d) noise

8) Increasing the signal \_\_\_\_\_ increases the strength of the signal:

- (a) distortion                      (b) attenuation                      (c) baud                      (d) power

9) The channel capacity C of a channel with bandwidth B and signal to noise ratio S/N is given by:

- (a)  $C = B \times \log_2(1+S/N)$                       (b)  $C = \log_2(1+S/N)$                       (c)  $C = B \times \log_2(S/N)$                       (d) None of these

10) The data rate is usually a multiple of the:

- (a) distortion                      (b) attenuation                      (c) baud rate                      (d) power

11) Baud rate is measured in:

- (a) Hertz      (b) bits per second      (c) symbols per second      (d) None of these

12) This is a measure that compares the level of a desired signal to the level of background noise. :

- (a) SNR      (b) DNA      (c) RNS      (d) None of these

13) Which one is correct? :

- (a) Baud rate = the number of bits per baud / Bit rate  
(b) Baud rate = Bit rate / the number of bits per baud  
(c) Baud rate = Bandwidth / the number of bits per baud  
(d) None of these

14) Channel Capacity is measured by:

- (a) kbps      (b) symbols per second  
(c) signals per second      (d) None of these

15) A large \_\_\_\_\_ allows signal to be transmitted over a longer distance with sufficient degree of accuracy:

- (a) SNR      (b) DNA      (c) RNS      (d) None of these

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