**16**

**NET301 Local Area Networks Technologies**

**Exam Model 2**

**Question 1:**

**3**

**Choose which sentence is correct and which is wrong using (√) or (×):**

1. When data is processed, organized, structured or presented in a given context so as to make it useful, it is called Information ( ).
2. Analogue signals is not continuous changing with time ( ).
3. Modems devices can perform modulation and coder ( ).
4. Modulation Converts information to analog signals ( ).
5. Falling edge: the transition from a high voltage to a low one ( ).
6. Frequency is Number of occurrences of a repeating event unit time ( ).

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**Question 2:**

**Complete the following:**

**6**

1. **QAM =** --------------------------------------------------------
2. **Modems Devices can perform:**
3. --------------------------------------------------------
4. --------------------------------------------------------
5. **V= f . λ**

**V:** --------------------------------------------------------

**F:** --------------------------------------------------------

**λ:** ---------------------------------------------------------

1. **What are four Encoding Techniques?**
2. --------------------------------------------------------
3. --------------------------------------------------------
4. --------------------------------------------------------
5. --------------------------------------------------------
6. **Bit Rate** =------------------------------------------------------

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Question 3:**

**Choose the correct answer:**

**7**

1. **Bit value is**

**a)** (0, 1)**.**

**b)** 8.

**c)** 1024 byte.

1. **The modems devices can perform**

**a)** Modulation + demodulation.

**b)** Decoder + coder.

1. **Phase θ:**
2. Measured in degree °.
3. Period is inverse of Frequency.
4. Length of one complete cycle.
5. **The transition from a low voltage to a high voltage :**
6. Rising edge.
7. Signal.
8. Falling edge.
9. **Not affected by noise:**
10. Phase-shift keying.
11. Frequency-shift keying.
12. Amplitude-shift keying.
13. **Number of occurrences of a repeating event per unit time\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_**
14. Frequency.
15. Signal bandwidth.
16. Amplitude.
17. Period.
18. **Changing signal phase + amplitude of the signal based on the data transmitted\_ \_ \_ \_ \_ \_ \_ \_**
19. ASK.
20. FSK.
21. QAM.
22. PSK.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Model Answer**

**Question 1:**

1. **√**
2. **×**
3. **×**
4. **√**
5. **√**
6. **×**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Question 2:**

**Complete the following:**

1. **QAM =** Quadrature amplitude modulation**………**
2. **Modems Devices can perform:**

**1-…** Modulation**…………………………………….**

**2-…** Demodulation**…………………………………**

1. **V= f . λ**

**V:** wave (meter\sec)

**F:** frequency (hertz)

**λ:** Wave length (meter)

1. **What are four Encoding Techniques?**
2. Amplitude-Shift Keying (ASK).
3. Frequency-Shift Keying (FSK).
4. Phase-Shift Keying (PSK).
5. Quadrature amplitude modulation (QAM)
6. **Bit rate = ……** baud rate **………**

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**Question 3:**

**Choose the correct answer:**

1. **Bit value is**

**a)** (0, 1)**.**

1. **The modems devices can perform**

**a)** Modulation + demodulation.

1. **Phase θ:**
2. Measured in degree °.
3. **The transition from a low voltage to a high voltage :**
4. Rising edge.
5. **Not affected by noise:**

**b)** Frequency-shift keying.

1. **Number of occurrences of a repeating event per unit time\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_**
2. Frequency.
3. **Changing signal phase + amplitude of the signal based on the data transmitted\_ \_ \_ \_ \_ \_ \_ \_**

**c)**  QAM.

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