1. Given a 7-bit information frame (0, 1, 0, 1, 1, 0, 1), what is the even parity bit?

1
0
None of the mentioned
01

2. What is the binary sequence that corresponds to polynomial code $x^3 + x^2 + 1$?

111
1110
0111
1101

3. What is the binary equivalent of the following polynomial arithmetic $x^7 + x^6 + x^5 + x^2 + 1$?

11011101
11100111
11101101
11100101

4. Internet protocols use check bits to detect errors, instead of using CRC polynomial. The primary rationale is _____

Strength of error detection capability
simplicity of implementation
CRC polynomial cannot work for internet protocols
None of the mentioned

5. The checksum of 0000 and 0000 is _____

0101
1010
0000
1111

6. Which of these is not a network edge device?

PC
Smartphones
Servers
Switch

7. Ensuring that information is not altered during transfer is associated with _____

Authentication
Integrity
Confidentiality
Availability

8. Which of the basic elements of ARQ is associated with negative acknowledgement?

    Error detecign code
    NAKs
    ACKs
    Timeout mechanism

9. Which of the following statements are true for the best-effort service of IP?

Packets can arrive with errors or be lost
All of the mentioned
Packets can arrive out-of-order
Packets can arrive after very long delays

10. Carrier Sense Multiple Access (CSMA) is based on medium called _____

Sense before transmit
Sense before Collision
Listen before sending
Listen before talk