

1. The receive end performs BIP-8 check for the unscrambled STM-16 frame. If the BIP-8 check result XOR the value of the B1 byte contained in the following STM-16 frame is 10001100, it indicates that () bit error blocks exist in the STM-16 frame.

- A. 5
- B. 3
- C. 6
- D. Unclear

6. When the transmit end detects that the b6-b8 of the K2 byte is 110, it indicates that the () alarm is reported at the transmit end.

- A. MS-AIS
- B. R-LOS
- C. R-LOF
- D. MS-RDI

10. Which of the following is not a condition for triggering multiplex section protection (MSP)?

- A. The MS-AIS signal is detected.
- B. AU-AIS is detected.
- C. R-LOS is detected.
- D. R-LOF is detected.

17. When bit errors are detected in the B2 byte, which of the following alarms is reported by the peer end?

- A. MS-AIS
- B. RS-BBE
- C. MS-FEBBE
- D. MS-BBE

26. Which of the following is the frame structure of STM-16?

- A. $9 \times 270 \times 1$
- B. $9 \times 270 \times 4$
- C. $9 \times 270 \times 16$
- D. $9 \times 270 \times 64$

29. TU-AIS is frequently encountered during network maintenance. Which of the following alarms can trigger the TU-AIS alarm? (Multiple Choice)

- A. AU-LOP
- B. R-LOS
- C. HP-TIM
- D. B2-EXC

38. Which of the following is the multiplexing mode of SDH?

- A. Flexible mapping
- B. Asynchronous multiplexing
- C. Flexible mapping and asynchronous multiplexing
- D. Flexible mapping and synchronous multiplexing

43. The pointer is used for alignment and indicates the start position of VC-n in the corresponding AU or TU frame. In this way, the receive end can correctly remove the corresponding VC from the STM-N, and then split the VC and C encapsulation to separate low-rate signals, such as PDH. That is, low-rate tributary signals can be directly dropped from the STM-N signal.

- A. TRUE
- B. FALSE

51. By default, the B2-EXC alarm is reported when the number of B2 bit errors exceeds the () threshold.

- A. 0.000000001
- B. 0.00001
- C. 0.001
- D. 0.01

53. When a fiber cut test is performed on a normal MSP ring, which of the following alarms is reported? (Multiple Choice)

- A. TU-AIS
- B. R-LOS
- C. APSJNDI
- D. BD STATUS

66. Which of the following are the main advantages of SDH? (Multiple Choice)

- A. Standard interfaces
- B. Synchronous multiplexing
- C. Powerful OAM
- D. High compatibility

75. Which of the following are the differences between AU pointer and TU pointer? (Multiple Choice)

- A. Indication range
- B. Number of bits occupied by the pointer value
- C. Byte where the pointer value is stored
- D. Adjustment unit

77. RSOH, MSOH, HPOH, and LPOH implement monitoring functions in the descending order of monitoring scope.

- A. TRUE

B. FALSE

78. Which of the following bytes in the regenerator section overhead are associated with R-OOF and R-LOF? (Multiple Choice)

- A. A1
- B. A2
- C. B1
- D. B2

86. The STM-64 has () AU pointers.

- A. 64
- B. 1
- C. 4
- D. 16