

Huawei.H31-311.by.Jack.37q

Number: H31-311  
Passing Score: 800  
Time Limit: 120  
File Version: 3.0

**Exam Code: H31-311**

**Exam Name: HCIA-Transmission V2.0**



## Exam A

### QUESTION 1

Which of the following is not a non-linear effect?

- A. Self-phase modulation (SPM)
- B. Dispersion
- C. Raman scattering
- D. Four-wave mixing (FWM)

**Correct Answer: B**

**Section:**

### QUESTION 2

Which of the following are communication quality alarms? (Multiple Choice)

- A. Optical port loopback
- B. No login of an NE user
- C. NE communication interruption
- D. Loss of optical signals

**Correct Answer: C, D**

**Section:**

### QUESTION 3

Which of the following is not the northbound interface provided by the U2000?

- A. XML
- B. SNMP
- C. CORBA
- D. Qx

**Correct Answer: D**

**Section:**

### QUESTION 4

Which of the following are the electrical-layer overheads of OTN? (Multiple Choice)

- A. OPUk
- B. ODUk
- C. OCh
- D. OTUk

**Correct Answer: A, B, D**



**Section:**

**QUESTION 5**

The working mode of a port determines the flow control mode of the port. When the working mode is 100 Mbit/s full duplex, which of the following flow control modes can be used?

- A. Auto-negotiation flow control mode
- B. Non-auto-negotiation flow control mode
- C. Both of the above
- D. None of the above

**Correct Answer: B**

**Section:**

**QUESTION 6**

When the SXCS board is configured for an OSN 3500, which of the following is the access capacity of the subrack in full configuration?

- A. 35G
- B. 58.75G
- C. 80G
- D. 155G

**Correct Answer: D**

**Section:**

**QUESTION 7**

The SP3D board supports 63 EI services.

- A. TRUE
- B. FALSE

**Correct Answer: B**

**Section:**

**QUESTION 8**

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

**Correct Answer: B, C**

**Section:**

**QUESTION 9**

Which of the following is not the advantage of WDM?



- A. Ultra-large capacity and transparent data transmission
- B. Easy to upgrade and maximizing the protection for existing investments
- C. Completely substituting for SDH devices
- D. Compatible with all optical switching networks in the future

**Correct Answer: C**

**Section:**

**QUESTION 10**

Which of the following is the function of TCM overheads in ODUk signals?

- A. Channel supervisory overhead
- B. Path trace identifier overhead
- C. Tandem connection monitoring overhead
- D. General communication channel overhead

**Correct Answer: C**

**Section:**

**QUESTION 11**

Which of the following bridges is used to forward data based on the MAC address and VLAN ID carried in data?

- A. 802.1a
- B. 802.1d
- C. 802.1q
- D. 802.11ab



**Correct Answer: C**

**Section:**

**QUESTION 12**

In the 2.5G MSP ring consisting of four MSTP sites, when a protection switching occurs, which of the following statements about the alarm reporting is correct?

- A. The PS alarm is reported on the tributary board.
- B. The APS-INDI alarm is reported on the XCS board.
- C. The APS-INDI alarm is reported on the system control board.
- D. The APS-INDI alarm is reported on the line board.

**Correct Answer: B**

**Section:**

**QUESTION 13**

Which of following are the configuration modes of new NEs? (Multiple Choice)

- A. Manual configuration
- B. Uploading

- C. Downloading
- D. Copying NE data

**Correct Answer: A, B, D**

**Section:**

**QUESTION 14**

MSP is a network-level protection scheme. The MSP does not directly protect a service, and the MSP switching and restoration are not affected even if there is no service on the MSP ring.

- A. TRUE
- B. FALSE

**Correct Answer: A**

**Section:**

**QUESTION 15**

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.  $9 \times 270 \times 64$

**Correct Answer: C**

**Section:**

**QUESTION 16**

Optical fiber loss includes the bending loss, absorption loss, and scattering loss.

- A. TRUE
- B. FALSE

**Correct Answer: B**

**Section:**

**QUESTION 17**

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

**Correct Answer: A**

**Section:**

**QUESTION 18**

During service configuration, there are two timeslot modes. Huawei uses the interleaved timeslot mode by default.



- A. TRUE
- B. FALSE

**Correct Answer: B**

**Section:**

**QUESTION 19**

Which of the following bytes can be used for the orderwire phone between two REG devices?

- A. E1
- B. E2
- C. E1 and E2
- D. None of the above

**Correct Answer: A**

**Section:**

**QUESTION 20**

The SNCP switching speed can be improved if you classify the SNCP services that have the same source, sink, or route into groups.

- A. TRUE
- B. FALSE

**Correct Answer: A**

**Section:**



**QUESTION 21**

The standard Ethernet frame length should not be less than 64 bytes. Which of the following factors cause this limitation? (Multiple Choice)

- A. Minimum transmission distance
- B. Maximum transmission distance
- C. Working mechanism of conflict detection
- D. MAC address

**Correct Answer: B, C**

**Section:**

**QUESTION 22**

The device IP addresses of the gateway NE and non-gateway NEs must be set in the same network segment.

- A. TRUE
- B. FALSE

**Correct Answer: B**

**Section:**

**QUESTION 23**

Which of the following are the service board types of MSTP devices? (Multiple Choice)

- A. Interface board
- B. Service processing board
- C. Service processing board with interfaces
- D. Auxiliary board

**Correct Answer: A, B, C**

**Section:**

**QUESTION 24**

When the LCAS function is used/ which of the following overhead bytes are used to transmit control information? (Multiple Choice)

- A. M1
- B. H4
- C. K2
- D. K4

**Correct Answer: B, D**

**Section:**

**QUESTION 25**

When a bridge uses the IVL learning mode, the entry in the MAC address table is created according to the source MAC address and source port of the data frame. This entry is valid for all VLANs.

- A. TRUE
- B. FALSE

**Correct Answer: B**

**Section:**

**QUESTION 26**

Compared with a dense wavelength division multiplexing (DWDM) system, a coarse wavelength division multiplexing (CWDM) system provides a certain number of wavelengths and a transmission distance within ( ) km, which greatly reduces system cost and has strong flexibility.

- A. 50
- B. 100
- C. 200
- D. 20

**Correct Answer: B**

**Section:**

**QUESTION 27**

A two-fiber ring topology consisting of three NEs is arranged in the counterclockwise sequence as A, B, and C. Services between A and C occupy the 48th VC-12 timeslot in the first VC-4 on the short path, and services between B and C also occupy the 48th VC-12 timeslot in the first VC-4 on the short path. In this case, which of the following is the subnet type of the ring protection?

- A. Unidirectional path protection ring
- B. SNCP ring



- C. Bidirectional MSP ring r
- D. All of the above

**Correct Answer: C**

**Section:**

**QUESTION 28**

Which of the following statements about the sequence of a signal flow between the SDH interface and the cross-connect unit is correct?

- A. SPI< >RST< >MST< >MSP< >MSA< >HPT
- B. SPI< >RST< >MSA< >MSP< >MST< >HPT
- C. SPI< >MST< >RST< >MSA< >MSP< >HPT
- D. SPT< >MST< >MSA< >RST< >MSP< >HPT

**Correct Answer: A**

**Section:**

**QUESTION 29**

The K1 and K2 bytes can transmit APS switching signaling, and can also indicate that the multiplex section signal fails.

- A. TRUE
- B. FALSE

**Correct Answer: A**

**Section:**



**QUESTION 30**

The number of ODU2e signals multiplexed into an ODU3 signal is the same as that of ODU2 signals multiplexed into an ODU3 signal.

- A. TRUE
- B. FALSE

**Correct Answer: B**

**Section:**

**QUESTION 31**

If the overhead bytes pass through the backplane bus between two slots, the two slots are called paired slots. Paired slots implement automatic transparent transmission of overhead bytes, such as (),(), and (). This improves MSP switching performance and protects DCC communication with other NEs even if the SCC board on the local NE is offline. (Multiple Choice)

- A. K byte
- B. D byte
- C. E1 byte
- D. B1 byte

**Correct Answer: A, B, C**

**Section:**

**QUESTION 32**



OChr means that the electrical supervisory technology is used.

- A. TRUE
- B. FALSE

**Correct Answer: A**  
**Section:**

**QUESTION 33**

For 100G (112 Gbit/s) signals, the actual data baud rate is only 28G baud.

- A. TRUE
- B. FALSE

**Correct Answer: A**  
**Section:**

**QUESTION 34**

The interval between two adjacent pointer justification events is at least ( ) frames.

- A. 5
- B. 4
- C. 3
- D. 2

**Correct Answer: C**  
**Section:**



**QUESTION 35**

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

**Correct Answer: C**  
**Section:**

**QUESTION 36**

Which of the following is the functional unit that provides high-speed signal interfaces and processes corresponding signals?

- A. Cross-connect unit
- B. Auxiliary unit
- C. Tributary unit
- D. Line unit

**Correct Answer: D**

**Section:**

**QUESTION 37**

Which of the following are the main advantages of SDH?

(Multiple Choice)

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

**Correct Answer: A, B, C, D**

**Section:**

