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### Question: 1

When performing fiber cut-off test on an ordinary MSP ring, which of the following alarms will be reported? (Multiple choice).

- A. YOU-AIS
- B. R-LOS
- C. APSJNDI
- D. BD

**Answer: B, C**

### Question: 2

When the bridge uses IVL learning mode, an entry in the MAC address table is created based on the SOURCE MAC address and source port of the teach frame. This entry applies to all VLANs

- A. True
- B. False

**Answer: B**

### Question: 3

Compared with dense wavelength division multiplexing (DWDM) systems, crude glass division multiplexing (CWDM) systems provide a certain amount of glass length and transmission distance within (kmkm), which greatly reduces system cost and has strong flexibility

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A. 50

B. 100

C. 200

D. 20

**Answer: B**

### **Question: 4**

If you group SNCP services with the same source, sink, or route, you can increase the SNCP switching speed

A. True

B. False

**Answer: A**

### **Question: 5**

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

A. Minimum transmission distance

B. Maximum transmission distance

C. How conflict detection works

D. MAC address

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**Answer: B, C**

**Question: 6**

The device IP address of the gateway element and the non-gateway element must be set in the same network segment.

- A. True
- B. False

**Answer: B**

**Question: 7**

Which of the following are the service board types for MSTP devices? (Multiple choice).

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A. Interface board

B. Service processing board

C. Service processing board with interface

D. Auxiliary board

**Answer: A, B,  
C**

**Question:**

**8**

When using the LCAS function, which of the following overhead bytes is used to transmit control information? (Multiple Choices)

A. M1

B. H4

C. K2

D. K4

**Answer: B,  
D**

**Question: 9**

Which of the following is the electrical layer cost of OTN? (Multiple choice).

A. OPUk

B. ODUk

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C. och

D. OTUR

**Answer: A, B, D**

### **Question: 10**

The working mode of the port determines the flow control mode of the port.

When the operating mode is 100Mbit/s full duplex, one of the following flow control modes can be used

A. Auto-negotiation flow control mode

B. Non-autonegotiation flow control mode

C. Both

D. None of the above

**Answer: B**

### **Question: 11**

When configuring the SXCS single board for the OSN3500, which of the following is the access package of the fully configured substand?

A. 35G

B. 58.75G

C. 80G

D. 156 to pick up the answer

**Answer: D**

**Question: 12**

When configuring LMSP, there are two switching modes: single-ended switching and double-ended switching. Single-ended switching does not require the protection protocol to be enabled.

- A. True
- B. False

**Answer: A**

**Question: 13**

Which of the following statements about the OTM-n .m and OTMnr .m for OTN are incorrect?

- A. n represents the number of wavelengths carried by the maximum capacity
- B. m indicates the rate. The value can be 1, 2, or 3.
- C. r represents OTM., which does not have OSC capabilities
- D. OTM-nr .m with OSC signal is OTM-n.m.

**Answer: B**

**Question: 14**

Which of the following statements regarding multiplexing partial remote False indication (MS-REI) is correct?

- (1) B2 bytes indicate the transmission channel.

- 
- (2) The M1 byte represents the transmission channel
- (3) THE MS-REI is sent from the receiver to the source.
- (4) MS-REI is transmitted from the source to the receiver.
- (5) Indicates the number of bit Falses detected by the receiver after receiving the MS signal.

®@®

A. @@®

B. ®@®

C.

D. (2) (3) (5)

**Answer: D**

### Question: 15

Which of the following is the frame indicated by the VC-4 J1 byte by the AU pointer of the current frame?

A. Current framework

B. Next frame

C. Previous frame

D. None of the above

**Answer: B**

### Question: 16

QinQ technology can be used when multiple users need to share the same VCTRUK and use the same VLAN ID.

A. True

B. False

**Answer: A**

### Question: 17

Which of the following statements regarding the protection of the cross-connecting plate 1+1 is correct?  
(Multiple choice).

- A. The source business board sends services to the main and standby crossover boards. .
- B. After the service cross-connection is completed, the active and standby cross-board sends the data of the primary cross-board to the receiving service board.
- C. The receiving service board can only receive data from the active cross-link board
- D. The bus of the two cross-connected modules works independently and does not interfere with each other. .
- E. Dual bus system structure indicates that the service board performs dual data transfer to the cross-connection side and selectively receives data on the cross-connection side. .
- F. Both cross-connecting plates have the same configuration. The service board will selectively receive services from one of them based on the quality of service and the status of the crossconnecting board. .

**Answer: A, D, E, F**

### Question: 18

In WDM systems, it is ideal to use a dielectric thin problem filter (TFF) when using less than () wavelengths.

A. 4

B. 8

C. 16

D. 20

**Answer: C**

**Question: 19**

According to the formula " $ODU_k \text{ rate} = \frac{239}{239k} \times \text{STM-N frame rate}$ ", ODU4 The rate is equal to the  $\frac{239}{235} \times \text{STM-N Pa rate}$ .

A. True

B. False

**Answer: B**

**Question: 20**

Linear MSP (LMSP) has two modes: 1+1 and 1:1. Additional services can only be configured for the protection channel in 1:1 mode of the LMSP.

A. True

B. False

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**Answer: A**

**Question: 21**

The clock unit can only access the external clock source as the timing signal source of the system through the external clock interface. In addition; It can also output a processed clock and provide a clock source for other devices that need timing.

A. True

B. False

**Answer: B**

**Question: 22**

Which of the following statements about the MST functional module is correct? (Multiple choice).

A. MST is both the source and sink of MS. .

B. MST implements BIP-8 statistical computation of B2 bytes.

C. MST returns bit False messages, but does not return a specific number of bit Falses

D. MST provides an E20 orderwire channel. .

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**Answer: A, D**

**Question: 23**

The 1510nm optical monitoring channel can be effectively amplified after passing through EDFA.

A. True

B. False

**Answer: B**

**Question: 24**

In the frame structure of the SDH signal, there are large overhead bytes for operation, management, and maintenance (OAM). Overhead bytes account for all bits ( ) of the entire frame and greatly enhance the monitoring capabilities of the network.

A. 1/10

B. 1/20

C. 1/30

D. 1/40

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**Answer: B**

**Question: 25**

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

- A. 8021a
- B. 802.1d
- C. 802.1q
- D. 802.11from

**Answer: C**

**Question: 26**

In a 2.5GMSP ring consisting of four MSTP sites, which of the following statements about alarm reports is correct when a protection switchover occurs?

- A. PS Alarms are reported on the tributary board.
  - B. APS-INDI alarms are reported on the xCS board. .
  - C. Report APS-INDI alerts on the system dashboard.
  - D. Report APS-INDI alarms on the board.
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**Answer: B**

**Question: 27**

The frame structure of ODU4 is four times that of ODU1

- A. True
- B. False

**Answer: B**

**Question: 28**

The rate of SF64 and SL64 boards is STM54. Therefore, the two plates can be interconnected.

- A. True
- B. False

**Answer: B**

**Question: 29**

Manual configuration will clear the data on the NE side

- A. True
  - B. False
-

**Answer: A**

**Question: 30**

NE A and NE B are adjacent NE

If B3 and low-order Falses occur in the A->B direction, and B1, B2, B3, and low-order Falses occur in the B->A direction, it is caused by Which of the following performance events does NEA report? (Multiple choice).

- A. RSBEE
- B. RSFEBE
- C. MSBBE
- D. MSFEbbe
- E. HPBBE
- F. HPFEbbe

**Answer: A, C, E, F**

**Question: 31**

Which of the following ITLI-T recommendations define the OTN frame structure?

- A. G.694
- B. G.652
- C. G.975
- D. G.709

**Answer: D**

**Question: 32**

The dual fiber ring topology consisting of three network elements is arranged in counterclockwise order as the service between A, B and C A and C occupies the first VC-48 on the short path VC-12 time slots, B and C of the same service also occupy the 48th of the first VC-4 on the short path VC-12 time slots

- A. Unidirectional path protection ring
- B. SNCP ring
- C. Bidirectional MSP ring
- D. All of the above

**Answer: C**

**Question: 33**

Which of the following statements regarding the sequence of signal flows between the SDH interface and the cross-connecting 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 <> MS <> MSA <> RST > MSP <> HPT

**Answer: A**

**Question: 34**

K1 and K2 bytes can send APS switching signaling or indicate that the multiplexed segment signal is invalid.

A. True

B. False

**Answer: A**

**Question: 35**

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

A. Cross-connecting unit

B. Auxiliary units

C. Tributary units

D. Line units

**Answer: D**

**Question: 36**

Which of the following is the main advantage of SDH? (Multiple choice).

A. standard interface.

B. Synchronous multiplexing.

C. Powerful OAM

D. High compatibility.

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

### **Question: 37**

The AAC address consists of 46 bits and is globally unique

Which of the following - is the meaning of the eighth-digit MAC address with 1?

A. unicast address

B. Double-click the address

C. Multicast address

D. Broadcast address

**Answer: C**

### **Question: 38**

PDM uses a polarization beam splitter to divide the laser into two vertical directions: x and y.

A. True

B. False

**Answer: A**

**Question: 39**

WDM transmits optical signals multiplexed at multiple rates (wavelengths) through a single optical fiber, and the digital signals carried by these optical signals must have the same rate and data format

- A. True
- B. False

**Answer: B**

**Question: 40**

Which of the following communication protocols are used for DCN management of Huawei devices?

(Multiple choice).

- A. HWECC
- B. TCP/IP
- C. FTP
- D. OSI

**Answer: A, B, D**

**Question: 41**

Which of the following statements about extending the ECC is incorrect?

- A. Extended ECC is divided into Auto Extended ECC and Extended ECC in specified mode.
- B. Auto-expanding ECC means an Ethernet port that uses a pass-through cable to connect two network elements
- C. Extended ECC in specified mode indicates that a server and client need to be specified.
- D. You can enable auto-scaling ECC on up to four network elements. Under the Hand Extension
- E. C overlay, each server can link up to three clients.

**Answer: D**

**Question: 42**

Which of the following are communication quality alerts? (Multiple choice).

- A. Optical port loopback
- B. There is no login user
- C. NE communication in the
- D. Optical signal loss

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**Answer: C, D**

**Question: 43**

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

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

**Answer: D**

**Question: 44**

Which of the following is not the advantage of WDM?

- A. Large capacity and transparent data transfer
- B. Easy to upgrade and maximize protection for existing investments
- C. gold replacement for SDH equipment
- D. Future compatible with all optical switching networks

**Answer: C**

**Question: 45**

On a Layer 2 switching device, if the Ethernet port is an Access port, the port can only receive Ethernet frames without a VLAN tag or Ethernet frames with the same VLAN ID as the default VLAN ID of the port.

- A. True
- B. False

**Answer: B**

**Question: 46**

During service configuration, there are two time slot modes. Huawei uses interleaved time slot mode by default.

- A. True
- B. False

**Answer: B**

**Question: 47**

Which of the following is not a nonlinear effect?

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

**Answer: B**

### **Question: 48**

Which of the following is the feature of TCM overhead in ODUk signals?

- A. Channel oversight fees
- B. Path trace identifier overhead
- C. In-line connection monitoring overhead
- D. General communications and communication overhead

**Answer: C**

### **Question: 49**

Which of the following bytes can be used for wired phones between two REG devices?

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

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**Answer: A**

**Question: 50**

The SP3D board supports 63 E1 services

A. True

B. False

**Answer: B**

**Question: 51**

For MSPs, you need to set the MSP protocol ID for each NE. To ensure that each ID is unique, it is recommended to set the MSP protocol ID to the value that is compatible with the network element ID.

A. True

B. False

**Answer: B**

**Question: 52**

Which of the following is the configuration mode for the new NE?( Multiple choices).

A. Manual configuration

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- 
- B. Upload
  - C. Download
  - D. Copy NE data

**Answer: A, B, D**

**Question: 53**

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

- A. True
- B. False

**Answer: A**

**Question: 54**

The following is the frame structure of the STM-16?

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

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**Answer: C**

**Question: 55**

Fiber loss includes bending loss, absorption loss and scattering loss.

- A. True
- B. False

**Answer: B**

**Question: 56**

The index is used to folio and delineate the starting position of VC-n in the corresponding AU or TU frame so that the receiving end can correctly remove the corresponding VC from the STM-N The VC and C packages are then separated into separate low-rate signals, such as PDH That is; Low-rate branch signals can be discarded directly from the STM-N signal

- A. True
- B. False

**Answer: A**

**Question: 57**

Which of the following statements about the U2000 license is incorrect?

- 
- A. Each license file corresponds to the device serial number (ESN) of one U2000 computer, so it can only be used on the corresponding computer.
- B. Official U2000 licenses vary by operating system platform. You must apply for a U2000 license based on your specific operating system. (Correct answer"
- C. The U2000 license file xxxxxx is named .dat format
- D. Do not modify the license file. Otherwise, the license file will fail

**Answer: B**

### **Question: 58**

Which of the following statements about the MSP ring is correct? (Multiple choice).

- A. The number of nodes on the MSP ring cannot exceed 16.
- B. Create a protection sub and select only the SDH network element. Do not select REG or WDM network elements.
- C. When multiple protection subnets occupy the same port on the same board, "resource sharing" must be reached.
- D. is assigned by VC4 means that different VCs4 are assigned to different protection subnets to implement MsPs only in certain channels

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

**Question: 59**

Which of the following is photolayer tracking? (Multiple Choices)

- A. OCh
- B. OMS
- C. OTS
- D. OSC

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

**Question: 60**

Only one TCM can be used at one site

- A. True
- B. False

**Answer:  
B**

**Question:  
61**

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In MSP networking, when the optical fiber is connected between sites, the east light plate of the site is connected to the west light plate of the downstream site, and these stations are connected in turn to form a ring. In this case, the direction from the east light plate of the site to the west light plate of the downstream station is the direction of the main ring, and the direction of forming the ring is the direction of service.

- A. True
- B. False

**Answer: B**

### Question: 62

Which of the following device domains can be managed by U2000? (Multiple choice).

- A. Transport equipment
- B. Wireless device
- C. Data communication device
- D. Access device

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

### Question: 63

The value of the MFAS byte increases with the sequence number of the OTUK/ODUK base frame and includes the most ( ) base frames.

- A. 64
- B. 128

c. 256

d. 512

**Answer: C**

**Question: 64**

Which of the following clock operating modes supports the ITU-T G.781 standard? (Multiple choice).

A. Tracking

B. Hold

C. Self-curved running

D. Master/Slave

**Answer: A, B, C**

**Question: 65**

What of the following operations may interrupt the network element service? (Multiple choice).

A. search protects the subnet

B. Look for trails

C. Activate the trail

D. Download the network metadata

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**Answer: C, D**

**Question: 66**

Configuring the EPLAN service as a ring is not recommended. If the EPLAN service is configured as a ring network, the STP protocol must be enabled on the network to prevent broadcast storms.

- A. True
- B. False

**Answer: A**

**Question: 67**

If a network port that supports autonegotiation is connected to a network port that does not support autonegotiation, you can interconnect in both half-duplex and full-duplex modes.

- A. True
- B. False

**Answer: A**

**Question: 68**

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When using a script to back up U2000 data, the backup speed is fast because the backup file is small.

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A. True

B. False

**Answer:**

**B**

### Question: 69

The Raman amplifier uses which of the following effects?

A. Self-phase modulation (SPM).

B. Dispersion

C. Raman scattering

D. Four-wave mixing (FWM).

**Answer:**

**C**

### Question: 70

The segment overhead of STM-4 is ( ) bytes/frame.

A.  $9 \times 9 \times 4$

B.  $9 \times 8 \times 4$

C. 9\*9\*8

D. 9\*8

**Answer: B**

### Question: 71

When the low-level resources of the device are insufficient, which of the following measures can be taken?  
(Multiple choice).

- A. Configure VC4 Server Path
- B. Combine available low-level resources. (.)
- C. Use a crossover connection board with a large low-level cross-connection
- D. Configure the VC4 service. .

**Answer: B, C, D**

### Question: 72

After the U2000 sends configuration data to the network element, if the SCC single board authentication fails, the network element enters the installation state.

A. True

B. False

**Answer: A**

**Question: 73**

Some SNCP protection inversion conditions are default, such as AU-AIS and TU-AIS. Other conditions are optional, such as HP-TIM and HP-SLM. Optional conditions can be flexibly set according to the level of the costume.

- A. True
- B. False

**Answer: A**

**Question: 74**

TU-AIS is often encountered during network maintenance. Which of the following alerts can trigger a TU-AIS alert? (Multiple choice).

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

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

**Question: 75**

SES: There are 5% or more of the False blocks or at least one defect (OCI/AIS/LCK/IAE/LTC/TIM/PLM) in one second.

A. True

B. False

**Answer: B**

**Question: 76**

When the ACT indicator of the SDH board is off, it means that the board has a hardware failure and cannot be used.

A. True

C. False

**Answer: B**

**Question: 77**

In the SDH optical synchronous transmission system, which of the following bytes is used to transmit the quality and weight and usage information of the clock source?

A. G1

B. S1

C. N1

D. M1

**Answer: B**

### Question: 78

The optical amplifier unit compensates for line losses and extends the transmission distance. Connecting multiple optical amplifier units in cascaded mode allows for extended transmission distances without following the system.

A. True

B. False

**Answer: B**

### Question: 79

Optical module parameter "L-64.2" in the "2" indicates which of the following working windows?

A. 880 nm

B. 1310 nm

C. 1550nm

D. 1510nm

**Answer: C**

**Question: 80**

In the Windows operating system, the log files of the U2000 program are stored in the () directory of the U2000 installation disk.

- A. /U2000/server
- B. /U2000/client/log
- C. /u2000/server/log
- D. /U2000/Client

**Answer: C**

**Question: 81**

When there is a Critical False In Seconds (SES) in the PM portion of the ODUK layer, which of the following alarms is reported by NMS?

- A. ODUK\_PM\_ES
- B. ODUK\_PM\_SES
- C. ODUK\_PM\_SESR
- D. ODUK\_PM\_UAS

**Answer: B**

**Question: 82**

Which of the following is the difference between an AU pointer and a TU pointer? (Multiple choice).

- A. Indicates the range
- B. The number of bits occupied by the pointer value
- C. The byte that stores the pointer value
- D. Adjust units

**Answer: A, C, D**

**Question: 83**

LCK insertion takes precedence over AIS insertion. That is, if the user configures LCK insertion and the conditions for automatic AS insertion are met, the LCK is inserted.

- A. True
- B. False

**Answer: A**

**Question: 84**

On the NMS system, the network element performance monitoring time is set to () minutes and () hours.

- A. 15.12
- B. 15.24
- C. 30.12
- D. 30.24

**Answer: B**

**Question: 85**

Which of the following is the multiplexing method of SDH?

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

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**Answer: D**

**Question: 86**

When the working PQ1 board is oversized, the device will perform and the TFS protection will be reversed. Which of the following statements about the switching process are correct? (Multiple choice).

- A. cross-connect board checks the PQ1 board fault through the board status bus. .
- B. If the protection PQ1 board is normal, the cross-connection board sends a switching message to the D75S corresponding to the faulty PQ1 board through the switching control bus. .
- C. The D75S board responds to the switch message by transmitting the service to the shared protection bus and stopping sending the service to the tyrant PQ1 board
- D. The protection PQ1 board receives and processes the services transmitted from the D75S board to the protection bus to complete the protection switching

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

**Question: 87**

When the U2000 is synchronized, the same network metadata as the U2000 is not uploaded to the U2000, and the data that exists on the U200 but does not exist on the network element is deleted.

- A. True
  - B. False
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**Answer: B**

**Question: 88**

In the OSN550, the CXL slot contains a function board that integrates a system control and communication (SCC) unit, a cross-connecting unit, and a clock unit. Depending on the functionality and access features provided by the OSN550, there are several types of dashboards:

- A. True
- B. False

**Answer: A**

**Question: 89**

Which of the following alerts does not trigger an AU-AIS alert?

- A. R-LOS
- B. MS-AIS
- C. AU-LOP
- D. B2-ExC

**Answer: C**

**Question: 90**

Forced switching, fiber switching, manual switching and motion switching are decreased in order of priority.

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A. True

B. False

**Answer: A**

### Question: 91

Which of the following statements about the clock source are incorrect?

A. The internal clock source has the lowest priority due to low accuracy.

B. Typically, a branch clock is not used as a clock source for a device.

C. Select the same SSM co-editor for all NE in the clock protection subnet

D. If the difficultY SSM protocol is enabled, you need to set the clock source ID to correct the answer.

**Answer: D**

### Question: 92

Which of the following bytes in the regenerator part overhead are associated with R-OOF and R-LOF?

(Multiple Choices)

A. A1

B. A2 ()

C. B1.

D. B2

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**Answer: A, B**

**Question: 93**

Which of the following is the VLAN classification method? (Multiple choice).

- A. by MAC address correct answer).
- B. Through the port correct answer).
- C. By subnet
- D. press Co-set

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

**Question: 94**

The TAG attribute cannot be set for the internal port VCTRUNK of the single board on the NMS.

- A. True
- B. False

**Answer: B**

**Question: 95**

EPL services use bandwidth exclusively on the line, which is very safe. Dedicated line applications for VIP customers

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A. True

B. False

### Question: 96

Coherent receiver technology uses a local oscillator laser with the same frequency as the received signal to perform coherent processing and recover () information from the received signal. (Multiquality selection.)

A. Phase

B. Frequency

C. Polarized state

D. Amplitude

**Answer: A**

### Question: 97

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

A. True

B. False

**Answer: A, C, D**

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**Answer: B**

**Question: 98**

If the overhead bytes pass through two plugged backplane buses, then the two slots are called paired slots that enable automatic transparent transfer of overhead bytes, such as (), () and (). Even if the SCC on the local network element The board is offline, which can also improve msP switching performance and protect DCC communication with other network elements. (Multi-quality selection).

- A. K bytes
- B. D bytes
- C. E1 bytes
- D. B1 word strip

**Answer: A, B, C**

**Question: 99**

OChr means the use of electrical monitoring technology.

- A. True
- B. False

**Answer: A**

**Question: 100**

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

- A. True
- B. False

**Answer: A**

**Question: 101**

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

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

**Answer: C**

**Question: 102**

When a bit False is detected in B2 bytes, which of the following alarms is reported by the peer?

A. MS-AIS

B. MS-BBE

C. MS-FEBBE

D. MS-BBE

**Answer: C**

### Question: 103

Optical monitoring channel is used for monitoring of WDM optical transmission systems. In the ITU-T recommendation, it is preferable to use a 1510 nm wavelength of the a) rate.

A. 64 kbit/s

B. 192 kbit/s

C. 2 Mbit/s

D. 5676 kbit/s

**Answer: C**

### Question: 104

The 1310 nm and 1550 nm transmission windows are low loss windows. In DWDM systems, only the 1560 nm transfer window is used. Which of the following is the main cause?

A. The EDFA operating wavelength flatness region is contained in this window.

B. The nonlinear effect of the 1550 nm-wavelength region is small.

C. The 1550 nm wavelength region is suitable for long-distance transmission.

D. None of the above

---

**Answer: A**

**Question: 105**

On OSN Series transmission devices, ethernet ports cannot access tagged and untagged frames at the same time

- A. True
- B. False

**Answer: B**

**Question: 106**

QinQ technology can be used when multiple users need to share the same VCTRUNK and use the same VLAN ID.

- A. True
- B. False

**Answer: A**

**Question: 107**

The number of bit False blocks on each VC4 channel is detected by B3 on the receiving side. At the same time, the information is sent back to the sender via Q, and HP-REI and HP-FEBBE report on the sender.

- 
- A. K3 (b1-b4)
  - B. G1 (b5-b8)
  - C. G1 (b1-b4)
  - D. J(bt-4)

**Answer: C**

**Question: 108**

Establish Ethernet leased line service between H1 (HQ) and H2 (branch) of enterprise H, and bind 5 in the corresponding VCTRUNK VC-12. When a VC-12 fails, the Ethernet dedicated line between H1 and H2 is interrupted. So, which of the following statements is true?

- A. enables the LXAS feature on the port used by the Ethernet Leased Line service between H1 and H2.
- B. Enable the LCAS feature on the VCTRUR port used by the Ethernet Leased Line service between H1 and H2. (Correct answer"
- C. Enable the QinQ feature on the ports used by H1 and H2 Division's Ethernet Leased Line service.
- D. Enable the QinQ function on the VCTRUNK port used by the Ethernet Leased Line service between H1 and H2:

**Answer: B**

**Question: 109**

Array waveguide grating (AWG) multiplexer/multiplexer has the following advantages: short wavelength spacing, large number of channels and flat passband. Suitable for DWDM systems in ultra-high speed, large tubes.

- A. True
-

B. False

**Answer: A**

**Question: 110**

Which of the following alarm/event storage modes does U2000 support? (Multiple choice).

- A. Manual dumping
- B. Automatic pouring
- C. overflow does invert ()
- D. Dump the alarm log periodically

**Answer: A, C, D**

**Question: 111**

In Recommendation ITU-T G.692, the allowable channel frequencies are based on the reference frequency (), and the channel spacing can be 100 GHz, 50 GHz or 25 GHz.

- A. 192.1 Terahertz
- B. 193.1 Terahertz
- C. 1941 Terahertz
- D. 196.1 Terahertz

**Answer: B**

**Question: 112**

Which overhead below 112 is not ODUk overhead?

- A. PM
- B. Traditional Chinese Medicine
- C. NJO
- D. APs/PCc

**Answer: C**

**Question: 113**

The difference between dispersion compensation fibers and ordinary optical fibers is that the dispersion compensation fibers have a negative dispersion coefficient at ( ).

- A. 1310 nm
- B. 1550nm
- C. 800nm
- D. 1650nm

**Answer: B**

**Question: 114**

Both PDH and SDH have globally harmonized standards.

- A. True
- B. False

**Answer: B**

**Question: 115**

SDH signals must be scrambled before they can be transmitted over optical fibers. Which of the following bytes is not scrambled? (Multiple choice).

- A. A1
- B. A2
- C. J0
- D. J1

**Answer: A, B, C**

**Question: 116**

Which of the following alerts does not trigger an AU-AIS alert?

A. R-LOS

B. MS-AIS

C. AU-LOP ()

D. B2-ExC

**Answer:**

**C**

**Question:**

**117**

The refractive index  $n_1$  of the fiber core must be the Q of the cladding refractive  $M_0$   $n_2$ , which is a necessary condition for transmitting the optical signal in the optical fiber.

A. is higher than

B. Below

C. Equal

**Answer:**

**A**

**Question: 118**

STM-64 has an () AU pointer.

A. 64

B. 1

C. 4

D. 16

**Answer: A**

**Question: 119**

Bait-doped fiber amplifiers (EDFAs) are a key component of the new generation of optical communication systems. Which of the following is the feature of EDFA? Multiple Choice) □

- A. High gain
- B. High output meritorious service
- C. Amplification of any wavelength
- D. Low noise index

**Answer: A, B, D**

**Question: 120**

The scope of management of OMSn is the path from the input optical port on the multiplexer unit of the sending site to the output optical port on the multiplexer unit of the receiving site, called the optical multiplexing segment (OMS) path.

- A. True
- B. False

**Answer: A**

**Question: 121**

Which of the following statements about the EFS4 board are correct? (Multiple choice).

- A. The board has four FE ports. .
- B. The board supports three layers of text exchange. .
- C. The plate must be used with the processing plate.
- D. The board interface is the LC interface.

**Answer: A, B**

**Question: 122**

For OSN3500, there is a slot mapping relationship between the processing board and the interface pre-processor. The processing board in slot 1 maps to the interface board in slots 19-20.

- A. True
- B. False

**Answer: B**

**Question: 123**

Which of the following are device-level protection schemes for SDH products? (Multiple choice).

- A. Power protection
- B. Cross-connect and timer board protection

C. System dashboard protection

D. TPS protection

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

### **Question: 124**

For alignment; Indicates the starting position of VC-n in the corresponding AU or TU frame. • This way: The receiver can correctly remove the corresponding VC from STM-N, and then The VC and C packages are separated into separate low-rate signals, such as PDH, which means that the low-rate path signal can be dropped directly from the STM-N signal.

A. True

B. False

**Answer: A**

### **Question: 125**

In the case of a 1+1 linear MSP, which of the following switching modes does not require the APS protection protocol full (multiple choice) to be enabled

A. Single-ended reply mode (correct case management).

B. Single-ended non-reply pattern

C. Double-ended reply mode

D. Double-ended non-reply mode

**Answer: A, B**

**Question: 126**

SL64 board is available for OSN 2500.

A. True

B. False

**Answer: B**

**Question: 127**

OTM nr.m consists of up to n " multiplexed channels and does not support non-channel-related overhead. The letter "r" indicates a decrease in functionality.

A. True

B. False

**Answer: A**

**Question: 128**

EPL services use ports and bandwidth exclusively, and different users may need to share resources. Which of the following methods can be used to isolate user data?

A. VLAN ID

- 
- B. MPLS tags
  - C. QinQ Technical Wood
  - D. All of the above

**Answer: D**

**Question: 129**

The STAT indicator of the SDH board flashes red, lights up for 100ms, and turns off for 100ms. Which of the following means the state of the metric?

- A. Hardware mismatch
- B. Hardware failure
- C. Normal operation
- D. There is no power input

**Answer: A**

**Question: 130**

What are the basic features of the U2000? Multiple Choices

- A. Security management
- B. Topology management
- C. Alarm management
- D. Performance management

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

**Question: 131**

During service configuration, which of the following service levels cannot be selected?

- A. VC12
- B. VC8
- C. vC4
- D. VC3

**Answer: B**

**Question: 132**

Measure the False correction capability of fec with encoded gain. Which of the following statements about the coding gain is incorrect?

- A. When ber is constant, the OSNR saved by correcting the encoding is called the encoding gain.
- B. The False correction capability of B.FEC increases with coding gain.
- C. The coding gain of the in-band FEC is greater than the coding gain of the out-of-band FEC
- D. The coding gain of D.AFEC is greater than the coding gain of FEC.

---

**Answer: C**

**Question: 133**

Frame-Mapped GFP (GFPF) is a processing mode that targets data encoding blocks such as Fibre Channel and ESCON.

- A. True
- B. False

**Answer: B**

**Question: 134**

Which of the following is not a condition that triggers multiplexed segment protection (MSP)?

- A. MS-AIS signal was detected.
- B. Au-AIS detected.
- C. R-LOS detected.
- D. Check to R-LOF.

**Answer: B**

**Question: 135**

When the SNCP ring consisting of four Optis OSN 2500 devices has a rate of 25 Gbit/s, the network's service answer stars can carry up to ( ) 2Mt/s Signal.

A. 504

B. 1008

C. 2016

D. 4032

**Answer: B**

### Question: 136

After configuring PDH on a per-net element basis, the full trace cannot be searched. Which of the following is a possible cause? (Multiple choice)

A. The tributary plate is not selected to be recited correctly.

B. The board selection is incorrect.

C. The time period is not configured correctly 5.

D. Passthrough is not configured at the intermediate site. Correct answer)

**Answer: B, C, D**

### Question: 137

According to ITU-T's recommendations, the requirement that the MSP switching time should be within 50ms is conditional. For example, the number of net elements on the entire ring network is less than 16.

A. True

8. False

**Answer: B**

**Question: 138**

Which of the following technologies is the main difference between an open DWDM system and an integrated DWDM system?

- A. Wavelength conversion techniques
- B. Optical release technology
- C. Multiplexing/multiplexing technique
- D. Optical supervision technology

**Answer: A**

**Question: 139**

When setting up LCAS mode, follow these principles:

1. If both ends of the device are Huawei devices, please set it to "Standard Mode".
2. If a Huawei device is interconnected with a third-party device, set the interconnect device to the same mode according to the mode supported by the third-party device.

A. True, yes

B. False

---

**Answer: B**

**Question: 140**

When the fiber between node A and node B is disconnected, the RU on node B detects OTS\_LOS alarm and will report OTS\_BDI alarm to the board of node A. The board reports OTS\_BDI alarm to the downstream C node.

A. True

B. False

**Answer: A**

**Question: 141**

Which of the following layers define the protocols that control the network layer? The protocol for this layer applies to logical links, i.e. end-to-end connectivity between two devices.

A. Network layer

B. Data link layer

C. Transport Layer

D. Application layer

---

**Answer: C**

**Question: 142**

Which of the following logic function blocks are involved in processing clock signals? (Multiple choice).

- A. SPI
- B. RST
- C. MCF
- D. SETS

**Answer: A, D**

**Question: 143**

The receiver performs a BIP-8 check on unscrambled STM-16 frames. If the BIP8 check result XOR , the value of the B1 byte contained in the next STM16 ring is 10001100, which indicates STM-16 There is a ( ) bit False block in the axis.

- A. 5
- B. 3
- C. 6
- D. is unclear

---

**Answer: B**

**Question: 144**

Which of the following is the meaning of SFD in the Ethernet frame structure?

- A. Preamble
- B. Frame check sequence
- C. start frame delimiter
- D. Payload

**Answer: C**

**Question: 145**

Which of the following statements about the advantages of OTN are incorrect?

- A. WDM function is used to meet the requirements of the bait fiber Tbit/s bandwidth.
  - B. OTN provides the final five levels of nested or overlapping TCM connection monitoring.
  - C. OTN provides powerful out-of-band FEC functionality to effectively ensure line transmission performance.
  - D. OTN provides 2.7 Gbi/s, 10.7Gbt/s, 43Gbt/s and even 111.8 Gbit/s high-speed interfaces.
-

**Answer: B**

**Question: 146**

By default, B2-EXC alerts are reported when the number of B2 bit Falses exceeds the () threshold.

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

**Answer: C**

**Question: 147**

Which of the following is the default WTR time for MSP switching?

- A. 6 min
- B. 10 minutes
- C. 12 min
- D. 15 minutes

---

**Answer: B**

**Question: 148**

When the J1 byte does not match, an alarm () is reported and the service may be interrupted.

- A. RS\_TEM
- B. LP\_TEM
- C. HP\_TIM
- D. HP\_SLM

**Answer: C**

**Question: 149**

The last 256 columns in the OTN frame structure are the FEC regions for forward False correction.

- A. True
- B. False

**Answer: A**

**Question: 150**

Which of the following can be configured as the monitoring time for network element performance events?

---

- 
- A. Later than the current time
  - B. Same as the current time of NE
  - C. is earlier than the current time
  - D. Anytime

**Answer: A**

**Question: 151**

Automatic Laser Shutdown (ALS): When no optical signal is received, the ALS function automatically turns off the corresponding optical module. This feature protects field maintenance personnel.

- A. True
- B. False

**Answer: A**

**Question: 152**

U2000 can flexibly interconnect with different third-party network administrators through the Northbound Interface (NBI) and provide physical inventory and alarm information for the upper-layer network management.

- A. True
  - B. False
-

**Answer: A**

**Question: 153**

Which of the following is not an EVPLAN feature?

- A. bandwidth sharing
- B. Forwarding based on MAC address
- C. point-to-point, and point-to-multipoint topologies
- D. Multipoint to multipoint topology

**Answer: C**

**Question: 154**

Which of the following is the steps to multiplex a low-speed service into a high-speed SDH service? (Multiple choice).

- A. Mapping
- B. Overhead insertion
- C. Alignment
- D. Multiplexing

---

**Answer: A, C, D**

**Question: 155**

Suppose 2 VC-12 time slots need to be bound to the VCTRUNK1 of the N2EFS4 board. When there are 8 VC4 slots on the N2EFS4 board, which of the following slots meets the requirements?

- A. VC-12 time slot 1 and 2 for the first VC4
- B. VC-12 time slots for the second VC4 33 and 34
- C. VC-12 time slots 1 and 2 for the fourth VC4
- D. VC-12 Time slots 1 and 2 for the 8th VC-4

**Answer: C**

**Question: 156**

Which of the following statements about signal label byte C2 are incorrect?

- A. The A.C2 byte is used to indicate the multiplexed structure and payload properties of the VC frame.
- B. The C2 section to be sent must match the C2 bytes to be received.
- C. If the check to C2 byte does not match, the LP-SLM alarm is reported in the corresponding VC-4 channel.
- D. C2=00H Jizong VC4 is not equipped.

---

**Answer: C**

**Question: 157**

Which of the following is the maximum number of OSN3500 sub-racks that can be installed in a 2.2- meter cabinet?

- A. 1
- B. 2
- C. 3
- D. 4

**Answer: B**

**Question: 158**

output networks require higher costs than belt networks, but provide a more reliable management channel.

- A. True
- B. False

**Answer: A**

**Question: 159**

For osn3500, which of the following boards provides centralized backup capability for the +3.3V power supply of each board in the sub-shelf?

---

A. PU

B. AUX

C. coA

D. SCC

**Answer: B**

**Question: 160**

Optical module parameter "L-64.2" in "2" indicates which of the following working windows?

A. 880 nm

B. 1310 nm

C. 1550nm

D. 1610nm

**Answer: C**

**Question: 161**

Which of the following is the meaning of "L" in the optical module parameter "L-64.2"

A. Transmission distance

B. Dispersion coefficient

C. Emission wavelength

D. Fatigue of reception

**Answer: A**

**Question: 162**

PRBS can be used to test that the SDH service is healthy and that the protection reversal function is working.

- A. True
- B. False

**Answer: A**

**Question: 163**

Which of the following maintenance signals is transmitted from the downstream site to the upstream site of the OTN?

- A. ATS
- B. LCK
- C. IAE
- D. BDI

**Answer: D**

**Question: 164**

The OTN signal has a fixed pad period, the same frame period as the SDH signal.

A. True

B. False

**Answer: B**

**Question: 165**

In the case of SNCP, the board selectively receives the service. Therefore, SNCP can protect services on the line.

A. True

B. False

**Answer: B**

**Question: 166**

Which of the following is affected by changing the element ID of OSN3500 on NMS?

A. Interruption of business.

B. Restart your device.

C. Network element communication is interrupted.

D. NE time is out of sync.

---

**Answer: C**

**Question: 167**

The MAC loopback and PHY loopback are used for fault location. When the MAC loopback is set to in loop, the PHY loopback can be set according to the actual situation.

- A. True
- 8. False

**Answer: B**

**Question: 168**

Which of the following statements about overhead bytes is incorrect?

- A. A1 and A2 are framed bytes" These bytes are used to separate STM-1 frames in the signal stream.
- B. J0 is the regenerator part trace byte. This byte is used to resynch the send segment access point identifier so that the receiving end can verify its continuous connection to the specified sender.
- C. B1 is better than holding interleaved parity 8 (BIP-8). This byte is used to monitor for bit Falses in the regenerator section layer.
- D. E1 and E2 are wired bytes. These bytes are used to provide a voice channel for order line connections.

**Answer: A**

**Question: 169**

Which factors determine the optical signal-to-noise ratio (OSNR) of the receiving end to a certain extent After

---

---

the signal transmission in the WOM system is transmitted over a certain distance, the "oSNR" of the receiving end of the optical signal-to-noise ratio is reduced to a certain extent. Which of the following is the main cause?

- A. Use EDFA. ).
- B. Use of multi-density multiplexers and multiplexers.
- C. Do not use new optical fibers.
- D. Optical fiber attenuation is too high.

**Answer: A**

### **Question: 170**

Which of the following methods can be used to multiplex low-order ODUK to higher-order ODUK?

- A. Time-division multiplexing
- B. Wavelength division multiplexing
- C. Null division multiplexing
- D. Frequency division multiplexing

**Answer: A**

### **Question: 171**

When the sender detects that the b6-b8 of the K2 byte is 110, it means that the sender has reported an alarm ().

---

---

A. MS-AIS

B. R THE

C. R LOF

D. MS RIF

**Answer: D**

**Question: 172**

A PAUSE frames use reserved multicast addresses and are not forwarded by bridges or switches. In this way, the PAUSE frame does not generate any additional information.

A. True

B. False

**Answer: A**

**Question: 173**

The backplane has two 48V power cords, and each board gets two -48V power supplies from the backplane.

After combining the power supply via diodes, the various voltages required for each component are obtained by means of a DC/DC power module and a linear mane swap.

A. True

B. False

**Answer: A**

**Question: 174**

For (on-premises) HA solutions where active and standby servers are deployed in the same location, which of the following platforms can be deployed? (Multiple choice).

- A. Windows
- B. Solaris
- C. SuSE Linux
- D. All of the above

**Answer: B, C**

**Question: 175**

Which of the following is the basic requirement of the DWDM system in the light source?

- A. output wavelength stabilization
- B. Use the direct modulation method
- C. Low dispersion tolerance.
- D. The launch function is very high

---

**Answer: A**

**Question: 176**

An unprotected chain consists of four net elements; ME1, NE2, NE3 and NE4.

Create an end-to-end VC4 path NE1-NE4 and add NE5 between NE2 and NE3 for capacity expansion.

The original configuration remains unchanged and no services are configured on the NE5.

In this case, the unprotected chain becomes NE1-NE2-NE5NE3-NE4, how many VC4 paths can be searched?

- A. 0
- B. 1
- C. 2
- D. 3

**Answer: C**

**Question: 177**

Which of the following can be used as the central wavelength of the pump source in EDFA? (Multiple choice).

- A. 980 nm
  - B. 1510nm
  - C. 1480nm
  - D. 1310nm
-

**Answer: A, C**

**Question: 178**

RSOH, MSOH, HPOH and LPOH implement the monitoring function in descending order of the monitoring fan country.

- A. True
- B. False

**Answer: A**

**Question: 179**

According to the formula " $ODUk \text{ rate} = 239 / (239k) \times \text{STMN frame rate}$ ", ODU4 The rate is equal to  $239 / 235 \times$  STMN frame rate.

- A. True
- B. False

**Answer: A**

**Question: 180**

Single-fiber bidirectional WDM systems use only one optical fiber to transmit optical signals in both directions at the same time. Light signals in both directions should be arranged at different wavelengths.

- A. True

B. False

**Answer: A**

**Question: 181**

Which of the following different types of ESC are divided according to the principles of implementation?

(Multiple choice)

- A. insert DCC
- B. Fixed frame structure DCC
- C. Pilot adjusts DCC
- D. None of the above

**Answer: B, C**

**Question: 182**

Which of the following logical function modules is used to generate exhaust R-LOS alerts?

- A. RST
- B. MST
- C. MSA
- D. SPI

---

**Answer: D**

**Question: 183**

In the system control unit, which of the following databases does not lose data after a power failure?  
(Multiple choice).

- A. MDE
- B. DRDB
- C. FDB0
- D. FDB1

**Answer: C, D**

**Question: 184**

OSN1500/2500/3500/7500 supports DC and AC power inputs.

- A. True
- B. False

**Answer: B**

**Question: 185**

The rate of STM-1 is ( )bit/s.

A.  $9 \times 270 \times 1 \times 8000 \times 8$

B.  $9 \times 270 \times 1 \times 8000$

C.  $9 \times 270 \times 1 \times 8000 \times 16$

D.  $9 \times 270 \times 8000$

**Answer: A**

**Question: 186**

In WDM systems, it is ideal to use a dielectric thin film filter (TFF) when using less than ( ) wavelengths.

A. 4

B. 8

C. 16

D. 20

**Answer: C**

**Question: 187**

When you configure services on a per-NE basis, which of the following protection scenarios does not require subnet configuration before subsequent protection operations?

A. MSP

B. SNCP

C. MSP and SNCP

D. PSMA

**Answer: B**

**Question: 188**

Are the following statements regarding the definition of SDH correct?

A. hierarchy that can be used for asynchronous digital transfers

B. A hierarchy of standardized digital signals that can be asynchronously reused

C. A hierarchy of standardized digital signals that can be cross-connected asynchronously

D. Complete hierarchy of standard mathematical signals, providing simultaneous digital transmission multiplexing and cross-connectivity

**Answer: D**

**Question: 189**

Which of the following local maintenance endpoints can be used to manage MSTP devices?

A. U2000LCT

B. U2000WebLCT

C. U200IP LCT

D. All of the above

**Answer: A**

**Question: 190**

Which of the following statements about basic LCAS functionality are correct? (Multiple choice).

- A. New network elements and links are automatically discovered.
- B. Bandwidth dynamically increases or decreases. .
- C. Failed members are protected and restored. .
- D. Provides a fault-tolerant mechanism to enhance the robustness of the virtual cascading function. .

**Answer: B, C, D**

**Question: 191**

Which of the following alerts does not trigger an AU-AIS alert?

- A. RLOS
- B. MS-AIS
- C. AU-LOP
- D. B2-ExC

---

**Answer: C**

**Question: 192**

When configuring VLAN-based service types, which of the following features must be enabled on the port?

- A. Flow control
- B. Go to check
- C. Autonegotiation mode
- D. Broadcast packet suppression

**Answer: B**

**Question: 193**

When using a script to back up and restore network configuration data for the U2000, you can change the directory where the export file is saved.

- A. True
- B. False

**Answer: B**

**Question: 194**

Which of the following bytes can be used for ordenwire calls between two REG devices?

---

A. E1

B. E2

C. E1 and E2

D. Not above

**Answer: A**

### Question: 195

Which of the following are the components of the WDM system summer with N glass lengths? (Multiple choice).

A. Optical transponder unit

B. Wavelength division multiplexing unit)

C. optical amplifier unit

D. Supervisory unit

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

### Question: 196

Which of the following light sources has the best dispersion tolerance and stability?

A. Direct modulation of the light source

B. EA modulates the light source

C. Mach-Zehnder modulates the light source

D. None of the above

**Answer: C**

**Question: 197**

Which of the following statements about ODUk\_PM\_BDI is correct?

- A. ODUk PM signal degradation
- B. ODUk PM part BIP8 bit False threshold crossover
- C. ODUkPM follows the defect indication
- D. ODUkPM parallel connection indication

**Answer: C**

**Question: 198**

Which of the following is the functional unit that provides serial data for the interface and system associated with the orderwire phone?

- A. Cross-connecting unit
- B. Auxiliary unit
- C. Tributary units
- D. Line units

---

**Answer: B**

**Question: 199**

When the number of block errors detected by the B2 byte received at the receive end is returned to the transmit end through the MI byte, which of the following alarms or performance events are reported at the transmit end?

- A. MS\_FEBCF
- B. MS\_AIS
- C. MS\_REI
- D. MS\_BBF

**Answer: A, C**

**Question: 200**

SDH is a complete standard digital signal hierarchy that provides , multiplexing, and cross-connection. (Enter only lowercase letters.)

**Answer: synchronous  
digital transmission**

**Question: 201**

The rate of STM-0 is 51.84 Mbit/s.

- A. TRUE
  - B. FALSE
-

---

**Answer: A**

**Question: 202**

D1 to D12 are digital communication channel bytes. D1 to D6 are used in the regenerator section, and D7 to D12 are used in the multiplex section.

- A. TRUE
- C. FALSE

**Answer: A**

**Question: 203**

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

- A. SPI<>R5T<>MST<>MSP<>MSA<>HPT
- B. SPI<>MST<>RST<>MSA<>MSP<>HPT
- C. SPT<>MST<>MSA<>RST<>MSP<>HPT
- D. SPI<>R5T<>MSA<>M5P<>MST<>HPT

---

**Answer: A**

**Question: 204**

Which of the following are the main advantages of SDH?

- A. High compatibility
- B. Powerful OAM
- C. Synchronous multiplexing
- D. Interface specifications

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

**Question: 205**

Which of the following service types are supported by MS-OTN devices?

- A. PCM
- B. PDH
- C. SDH
- D. OTN

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

**Question: 206**

Which of the following statements about the MD02 board is incorrect?

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- 
- A. OTU4 or OTUC2 services can be received or transmitted on the WDM side.
  - B. 100GE or OTU4 services can be received on the client side.
  - C. The board supports regeneration mode.
  - D. The board tunes WDM-side optical signals within the range of 120 wavelengths in Super C band at a 50 GHz spacing and supports flexible grid.

**Answer: C**

**Question: 207**

The TNG1N401 board supports hybrid transmission of multiple ODUk granularities.

- A. TRUE
- B. FALSE

**Answer: A**

**Question: 208**

The UITL board multiplexes and demultiplexes signals with a 50 GHz spacing and signals with a 100 GHz spacing.

- A. TRUE
- B. FALSE

---

**Answer: A**

**Question: 209**

Which of the following boards can directly receive client-side signals?

- A. General service processing board
- B. Optical transponder board
- C. Trfcutary board
- D. Line board

**Answer: B, C**

**Question: 210**

The OPC board is an optical-layer platform board that must work with pluggable modules.

- A. TRUE
- B. FALSE

**Answer: A**

**Question: 211**

After a user adjusts service bandwidth, the NCE Controller delivers the new bandwidth to devices and adjusts the CIR and PIR of the service PW. During the adjustment, services are not interrupted.

- A. FALSE
-

B. TRUE

**Answer: B**

**Question: 212**

NCE software is deployed in B/5 (browser/server) mode.

- A. TRUE
- B. FALSE

**Answer: A**

**Question: 213**

You can view the NE license status and replace the license that is about to expire in a timely manner to prevent the impact of license expiration on services.

- A. TRUE
- B. FALSE

**Answer: A**

**Question: 214**

There are 48 bits in MAC address. The first ( ) bits make up a unique identifier for the vendor and the last ( ) bits are allocated by the vendor

A. 16, 32

B. 24, 24

C. 8, 40

D. 32, 16

**Answer: B**

**Question: 215**

For the devices that support multiple transmission rates and working modes, the mechanism can be used to determine the optimal communication mode between two connected

devices. (Enter only lowercase letters.)

**Answer:**

**Autonegotiation**

**Question: 216**

Transmitting test frames affects services.

A. TRUE

B. FALSE

**Answer: A**

**Question: 217**

A standard Ethernet frame should not be shorter than 64 bytes, which is determined by the and the collision detection used. (Enter only lowercase letters.)

---

**Answer: slot time**

**Question: 218**

Which of the following statements about an Ethernet switch is incorrect?

- A. It filters frames based on the source MAC address.
- B. It learns MAC addresses by examining the source MAC address of each frame.
- C. It floods frames when the destination address is not learned.
- D. It forwards frames based on the destination MAC address.

**Answer: A**

**Question: 219**

Which of the following are key technologies in a WDM system?

- A. Light source technologies
- B. Optical amplifier technologies
- C. Supervisory technologies
- D. Optical multiplexing and demultiplexing technologies

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

**Question: 220**

Which of the following modulation technologies has the best performance in terms of wavelength stability?

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- 
- A. Indirect modulation
  - B. Direct modulation
  - C. M-Z modulation
  - D. EA modulation

**Answer: C**

**Question: 221**

Single fiber unidirectional transmission provides higher bandwidth than single-fiber bidirectional transmission.

- A. TRUE
- B. FALSE

**Answer: B**

**Question: 222**

Which of the following is not a basic component of a WDM system?

- A. OMU
- B. OA
- C. OTU
- D. OSU

---

**Answer: D**

**Question: 223**

In a WDM system, when the number of wavelengths is greater than ( ), the arrayed waveguide grating (AWG) is recommended.

- A. 16
- B. 4
- C. 8
- D. 20

**Answer: C**

**Question: 224**

A light wave has two independent and orthogonally polarized modes on the plane perpendicular to the transmission direction, which are generally called X polarization and Y polarization respectively. Using this property of optical signals, the polarization multiplexing separately modulates optical signals on the two orthogonal polarizations.

- A. TRUE
- B. FALSE

---

**Answer: A**

**Question: 225**

Which of the following are the components of a WDM system multiplexing N wavelengths?

- A. Supervisory unit
- B. Optical transponder unit
- C. Optical multiplexing unit
- D. Optical amplifier unit

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

**Question: 226**

Which of the following types of optical fibers has the zero-dispersion feature at 1310 nm?

- A. G.654
- B. G.653
- C. G.652
- D. G.655

**Answer: C**

**Question: 227**

Which of the following is not an optical-layer board?

- A. Optical multiplexer board
- B. Optical supervisory board
- C. Optical transponder board
- D. Optical add/drop multiplexing board

**Answer: B**

**Question: 228**

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

- A. PMD
- B. SPM
- C. SRS
- D. FWM

---

**Answer: A**

**Question: 229**

After signals are transmitted for a certain distance in a WDM system, the optical signal-to-noise ratio (OSNR) at the receive end decreases to a certain extent. Which of the following is the main cause?

- A. EDfAs are used.
- B. Multiplexers and demultiplexers are used.
- C. Fiber attenuation is excessively high.
- D. New types of optical fibers are not used.

**Answer: A**

**Question: 230**

In the colored scenario, the TM20fTD20 board can be used to add/drop wavelengths.

- A. TRUE
- B. FALSE

**Answer: B**

**Question: 231**

Which of the following sites support service adding/dropping?

---

A. ROADM

B. OLA

C. FOADM

D. OTM

**Answer: A, C**

### Question: 232

Which of the following is the main networking type of a transmission network?

A. Chain network

B. P2P network

C. Mesh network

D. Ring network

**Answer: B**

### Question: 233

Which of the following statements about OTN advantages is false?

A. Provides 2 J Gbit/s, 107 Gbit/s, 43 Gbit/s, and even 111.8 Gbit/s high-rate interfaces.

B. Satisfies the requirement for Tbit/s bandwidth per fiber through the WDM function.

C. Provides powerful outband PEC functions to effectively guarantee the line transmission performance.

D. Provides a maximum of five levels of nested or overlapped TCM connection monitoring.

**Answer: D**

**Question: 234**

In the OTN standard system, which of the following protocols defines optical transport network interfaces?

- A. G.8/4
- B. G.709
- C. G.798
- D. G.694

**Answer: B**

**Question: 235**

The nominal rate of OTU4 signals is 111,809,973.568 kbit/s. Generally, the line rate is 112 Gbit/s.

- A. TRUE
- B. FALSE

**Answer: A**

**Question: 236**

According to the formula "OTUk rate =  $255 / (239 - k) \times \text{STM-N frame rate}$ ", the OTU3 signal rate is  $255 / 236 \times \text{STM-N frame rate}$ .

---

A. TRUE

B. FALSE

**Answer: A**

**Question: 237**

The OTUCn signal rate does not include the FEC overhead area.

A. TRUE

B. FALSE

**Answer: B**

**Question: 238**

Hitless protection switching (HPS) provides the dual fed and selective receiving function for fiber differential protection services and aligns the end-to-end latencies of the working and protection paths, improving service reliability.

A. TRUE

B. FALSE

---

**Answer: A**

**Question: 239**

Two PIU or APIU boards of an OpCXtrans E6616/OptiX OSN 1800V Pro are used to supply power for the system in hot backup mode. When either of the two PIU or APIU boards is faulty, the system can still function properly.

A. TRUE

B. FALSE

**Answer: A**

**Question: 240**

Self-healing refers to the capability of a network to automatically recover its services within a short period from a fault without any manual intervention. Users are unaware of the network fault. A network with this self-healing capability is a self-healing network.

A. TRUE

B. FALSE

**Answer: A**

**Question: 241**

When an OTU board works with an OLP board, the optical power difference cannot be used as a trigger condition for intra-board 1+1 protection switching.

---

A. TRUE

B. FALSE

**Answer: A**

**Question: 242**

When ODUk SNCP is configured, common WDM services can be converted into SNCP services, but SNCP services cannot be converted into common WDM services.

A. TRUE

B. FALSE

**Answer: A**

**Question: 243**

The working and protection ports of a linear MSP group must be on the same board.

A. TRUE

B. FALSE

**Answer: B**

**Question: 244**

When configuring 1+1 optical line protection, you can select RI1/T01 or RI2/T02 as the working channel according to the actual situation.

- A. TRUE
- C. FALSE



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**Question: 245**

Subnetwork connection protection (SNCP) requires the APS protocol.

- A. TRUE
- D. FALSE

**Answer: B**

**Question: 246**

Which of the following are prerequisites for self-healing networks?

- A. Backup routes
- B. Unified management by the NMS
- C. Intelligent network nodes
- D. Powerful cross-connect capabilities

**Answer: A, C, D**

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