Practice Exam Questions for: Nokia Advanced Optical Network Management (exam number: 4A0-260)

The following questions will test your knowledge and prepare you for the Nokia Advanced Optical Network Management exam. Compare your responses with the Answer Key at the end of the document.

1. If you are performing network construction in a CDC-F scenario, in which case(s) do you verify Control Plane activation?
   a. ASON L0 or ASON L1.
   b. ASON L0 or ASON L1 or MRN.
   c. MRN only.
   d. Verifying Control Plane activation is not necessary in this scenario.

2. Which of the following statements is TRUE if GMRE is activated on a main PSS-x shelf of an SWDM node?
   a. GMRE is not automatically activated on all PSS-x extension shelves (if any).
   b. GMRE is automatically activated on all PSS-x extension shelves (if any).
   c. GMRE is automatically activated on all PSS-x and WDM extension shelves (if any).
   d. GMRE cannot be activated on the other PSS-x extension shelves (if any).

3. Which of the following statements best describes a cluster configuration?
   a. It is possible to overcome the limit of 24 extension shelves and increase the number of provisioned channels per node.
   b. Up to three additional nodes can be added to the cluster. They can be either OCS or SWDM nodes.
   c. The main node can manage the OTs equipped in the extension shelves.
   d. It is possible to access the L-band and increase the number of provisioned channels per node.

4. Which node configurations allow GMRE L0 and L1 to both be active at the same time?
   a. SWDM (WDM + PSS-x) configuration only.
   b. OCS stand-alone, SWDM (WDM + PSS-x) and compound configurations (WDM + OCS or SWDM + OCS).
   c. OCS stand-alone, cluster and dangling configurations.
   d. SWDM (WDM + PSS-x) and compound configurations (WDM + OCS or SWDM + OCS).

5. What are the steps to configure a channelized service type?
   a.
      1. Line port must be configured through EQM as “channelized”.
      2. At service creation time, by selecting the “show channelized ports” option, the line port is structured with “n” ODUk timeslots and “n” virtual ports.
   b.
      1. Client port must be configured through EQM as “channelized”.
      2. At service creation time, by selecting the “show channelized ports” option, the client port is structured with “n” ODUk timeslots and “n” virtual ports.
   c.
      1. Line port must be OPS-connected to an External NE.
      2. At service creation time, by selecting the “show channelized ports” option, the line port is structured with “n” ODUk timeslots and “n” virtual ports.
   d.
      1. Client port must be OPS-connected to an External NE.
      2. At service creation time, by selecting the “show channelized ports” option, the client port is structured with “n” ODUk timeslots and “n” virtual ports.

6. Which OTN layer is represented by the end-to-end wavelength?
   a. Optical Channel (OCh)
   b. Optical Section (OS)
   c. Optical Transport Section (OTS)
   d. Optical Physical Section (OPS)

7. What is the main purpose of optical models?
   a. Optical models are diagrams to be provided as input to NFM-T.
   b. Optical models, designed with EPT and then submitted to NFM-T through CPB, provide the main steps for network creation.
   c. Optical models are provided to connect existing networks to external domains.
   d. Optical models provide the main directions for creating infrastructures and services.

8. What does the acronym CDC-F stand for?
   a. Colorless, Directionless, Contentionless, FlexGrid
   b. Chromatic Dispersion Correction, FlexGrid
   c. Colorless, Dispersionless, Contentionless, FlexGrid
   d. Chromatic Dispersion, Colorless, FlexGrid

9. What is the function of node synchronization?
   a. Align the node database with the CPB database.
   b. Download the content of the NFM-T database to the node.
   c. Upload the content of the node database to NFM-T.
   d. Align the system resources with the new changes in between the procedures of trail/service creation.

10. In the context of NFM-T, which of the following is correct?
    a. A service (server) hosts an infrastructure (client).
    b. An ODUk (server) hosts a service (client).
    c. An OTUk (server) hosts an ODUk towards an external NE (client).
    d. A service (server) hosts an OTUk (client).

11. In a managed-plane network, which steps are required to build a 10G service that terminates on PSS-24x nodes?
    a. (i) Physical connections creation; (ii) Infrastructures setup; (iii) SRG definition and assignment; (iv) Service establishment.
    b. (i) Logical Link creation; (ii) Infrastructures setup; (iii) Service establishment
    c. (i) OPS and OTS physical links creation; (ii) Infrastructures setup; (iii) Logical-links unlock; (iv) Service establishment
    d. (i) Physical connections creation; (ii) Infrastructures setup; (iii) Service establishment 260-1095

12. Which of the following statements best describes the C+L band support within NFM-T?
    a. A tag on OTS links indicates the involved band(s), and special hardware is needed on the equipment side to support them.
    b. Although no tag is available on the OTS or the infrastructures list to indicate the involved band(s), the band used by them can be checked through node WebUI.
    c. A tag on the infrastructure and services indicates the involved band(s).
    d. DThe nodes equipped with hardware compatible with both C- and L-bands are marked with a special tag in the nodes list.

13. What is a Switched WDM (SWDM) node?
    a. A node with a main shelf that controls several non 1830 extension shelves.
    b. A node with a master WDM shelf that controls several PSS-x or WDM extension shelves or a node with a master PSS-x shelf that controls several PSS-x or WDM extension shelves.
    c. A node with a main PSS-x shelf that controls several OCS extension shelves.
    d. A set of network elements (NEs) connected to each other so that all NEs can manage each others' OTs.

14. In a service on an MRN network, where the WSR parameter is set to "Enabled," what happens if a fiber on an OTS link between two WDM nodes is cut?
    a. Traffic switchover will take place first at layer 1, then at layer 0.
    b. Traffic switchover will take place first at layer 0, then at layer 1.
    c. Traffic switchover will take place only at layer 1.
    d. Traffic switchover will take place only at layer 0.

15. What is the Tomcat process' main purpose?
    a. Tomcat is one of the main OTN processes and is the entry point for most of the functions triggered by the user.
    b. Tomcat manages the NE configuration in terms of rack, boards and ports.
    c. Tomcat is the process in charge of synchronizing NFM-T DB with the nodes.
    d. Tomcat manages front-end and protocol-adapter processes.

16. Which of the following statements about "Container/Process Control" is TRUE?
    a. "Container/Process Control" allows the user to trigger NFM-T backup and restore.
    b. "Container/Process Control" allows the user to stop and start NFM-T containers and processes.
    c. "Container/Process Control" allows the user to change trace levels for every agent running on the server.
    d. Container/Process Control" allows the administrator to terminate users' sessions and send messages to other users connected to the NFM-T WebUI.

17. What alarms would you expect to see on the NFM-T global alarms list if an alarm is affecting an amplifier line port?
    a. All alarms related to the fault, but a node alarm resynchronization is needed to see elementary entries
    b. Network alarms and ASON alarms related to the fault
    c. Network alarms related to the fault
    d. All alarms related to the fault (elementary and correlated alarms)

18. Which route does the reroute feature for ASON services affect?
    a. The current route
    b. The backup route
    c. The nominal route
    d. Both the current and nominal routes

19. Which alarms should you expect after a GMRE reroute action has been completed?
    a. If the current route matches the nominal route, the SNC will raise “SNC ready to revert,” “Nominal unavailable,” and “SNC rerouted” alarms.
    b. If the current route does not match the nominal route, the SNC will raise “SNC ready to revert” and “SNC rerouted” alarms.
    c. If the current route matches the nominal route, the NPA will raise “SNC ready to revert” and “SNC rerouted” alarms.
    d. If the current route does not match the nominal route, the NPA will raise the “SNC ready to revert,” “Nominal unavailable,” and “SNC rerouted” alarms.

20. What is an alien service?
    a. The optical path between two termination points located against two iROADM cards.
    b. A service originated outside the 1830 PSS network transported over the 1830 PSS network with or without Wavelength Tracker functionalities.
    c. The portion of the network between two amplifiers equipped onto two contiguous nodes.
    d. The connection between the MVAC card and the external OT.

Answer Key

1. B
2. A
3. A
4. D
5. D
6. A
7. D
8. A
9. C
10. B
11. D
12. A
13. B
14. D
15. A
16. B
17. D
18. C
19. B
20. B

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