Cisco 644-906

Implementing and Maintaining Cisco Technologies Using IOS XR

Version: 5.1

QUESTION NO: 1

Refer to the show environmental power-supply command output exhibit.

```
R/S/I   Modules          Capacity        Status
                         (W)
0/PM0/*
        host     PM      3000            Ok

0/PM1/*
        host     PM      3000            Ok

0/PM2/*
        host     PM      0               Unpowered


R/S/I   Power Draw       Voltage         Current
        (W)              (V)             (A)
0/PM0/* 270.5            54.1            5.0
0/PM1/* 392.5            54.5            7.2
0/PM2/* 0.0              0.0             0.0
--------------
Total:  663.0

Power Budget Summary for Rack 0
-------------------------------


Power Shelves Type: AC
Total Power Capacity:                          6000W
Usable Power Capacity:                         6000W
Supply Failure Protected Capacity:             3000W
Worst Case Power Used:                         1850W
Slot                                                    Max Watts
----                                                    ---------
0/RSP0/CPU0                                                   235
0/RSP1/CPU0                                                   235(default)
0/2/CPU0                                                      630
0/FT0/SP                                                      375
0/FT1/SP                                                      375

Worst Case Power Available:             4150W
Supply Protected Capacity Available:    1150W
```

How much power is the system currently using?

A. 663 W
B. 1150 W
C. 1850 W
D. 6000 W

Answer: A

Explanation:

QUESTION NO: 2

Refer to the show environmental power-supply command output exhibit.

```
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                         (W)
0/PM0/*
        host     PM      3000            Ok

0/PM1/*
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0/PM2/*
        host     PM      0               Unpowered


R/S/I   Power Draw       Voltage         Current
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----                                                    ---------
0/RSP0/CPU0                                                   235
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0/2/CPU0                                                      630
0/FT0/SP                                                      375
0/FT1/SP                                                      375

Worst Case Power Available:             4150W
Supply Protected Capacity Available:    1150W
```

How many additional line cards of the same type that are currently in the system can you safely install and remain redundant in the worse power usage if there is a power supply failure?

A. 1

B. 2
C. 3
D. 4
E. 5

Answer: A
Explanation:

QUESTION NO: 3

What is the maximum long-term normal operating temperature of the Cisco CRS-1, ASR 9000 Series Routers, and XR 12000 Series Routers?

A. 40C (104F)
B. 50C (122F)
C. 55C (131F)
D. 65C (149F)

Answer: A
Explanation:

QUESTION NO: 4

The Cisco CRS 16-Slot Line Card Chassis Site Planning Guide suggests having 48 inches of clearance behind the chassis. What would definitely happen to the system if there were only 28 inches of clearance behind the Cisco CRS 16-Slot Line Card Chassis?

A. The system would overheat due to inadequate airflow.
B. The fabric card could not be exchanged if one failed.
C. The modular services card (MSC) could not be exchanged if one failed.
D. The fan tray could not be exchanged if one failed.

Answer: D
Explanation:

QUESTION NO: 5

How many planes are there in the Cisco CRS-3 switch fabric?

A. 1
B. 3
C. 7
D. 8

Answer: D
Explanation:

QUESTION NO: 6

What is the cell size of the cells that traverse the switch fabric on the Cisco CRS-3?

A. 128 bytes
B. 136 bytes
C. 144 bytes
D. 200 bytes
E. 288 bytes

Answer: B
Explanation:

QUESTION NO: 7

Where are client interfaces terminated on the Cisco CRS-3?

A. the modular services card
B. the physical layer interface module(s)
C. the switch fabric interface terminator
D. the Service Processor 40
E. the Service Processor 140

Answer: B
Explanation:

QUESTION NO: 8

In order to determine the hardware and firmware revision of a linecard, what is the correct command that should be invoked?

A. RP/0/RP0/CPU0:CRS-MC#show version
B. RP/0/RP0/CPU0:CRS-MC#show platform
C. RP/0/RP0/CPU0:CRS-MC(admin)#show platform
D. RP/0/RP0/CPU0:CRS-MC#show diagnostic summary
E. RP/0/RP0/CPU0:CRS-MC(admin)#show diag details

Answer: E
Explanation:

QUESTION NO: 9

In which mode can you check the power usage of a chassis?

A. in EXEC mode
B. in admin mode
C. in both EXEC and admin mode
D. in ROMMON mode
E. in environmental mode

Answer: B
Explanation:

QUESTION NO: 10

Refer to the exhibit.

```
                                          HW                         Current SW    Upg/
Location     Card Type              Version Type Subtype Inst          Version     Dng?
0/RP0/CPU0   Route Processor              0.4    lc    rommonA  0         2.01*      No
                                                 lc    rommon   0         2.01       Yes

0/SM0/SP     140G-S1S2S3-2                0.1    lc    rommonA  0         2.01       Yes
                                                 lc    rommon   0         2.03       Yes
                                                 lc    fpga1    0         3.05       Yes
                                                 lc    fpga2    0         4.01       No
```

If you have ROMMONs and FPDs with the Upg/Dng field marked "Yes" and you ran the upgrade hw-module fpd all location all command, what did you upgrade?

A. upgraded only the FPD for the cards that the Upg/Dng field marked "Yes"
B. upgraded all of the FPDs on all cards with an FPD regardless of the Upg/Dng field markings

C. upgraded only the FPD and ROMMON for the cards that the Upg/Dng field marked "Yes"
D. upgraded all of the FPDs and ROMMONs on all cards with an FPD or ROMMON regardless of the Upg/Dng field markings

Answer: C
Explanation:

QUESTION NO: 11

Which two of the following are correct commands to activate the PIE file <hfr-mgbl-p.pie-4.0.1>? (Choose two.)

A. install add tftp://172.20.165.36/hfr-mgbl-p.pie-4.0.1 activate
B. install activate tftp://172.20.165.36/hfr-mgbl-p.pie-4.0.1
C. install add disk0:hfr-mgbl-p-4.0.1 activate
D. install activate disk0:hfr-mgbl-p.pie-4.0.1

Answer: A,D
Explanation:

QUESTION NO: 12

Which command will correctly deactivate asr9k-mpls-p-4.1.0?

A. RP/0/RSP0/CPU0:P1 (admin)#install remove disk0:asr9k-mpls-p-4.1.0
B. RP/0/RSP0/CPU0:P1 (config)#install deactivate smu location disk0:
C. RP/0/RSP0/CPU0:P1 (admin-config)#deactivate disk0:asr9k-mpls-p-4.1.0
D. RP/0/RSP0/CPU0:P1 (admin)#install deactivate disk0:asr9k-mpls-p-4.1.0
E. RP/0/RSP0/CPU0:P1 #asr9k-mpls-p-4.1.0 disk0:deactivate sync

Answer: D
Explanation:

QUESTION NO: 13

Which answer best summarizes the difference between p and px images, hfr-mini-p.vm-4.1.1 and hfr-mini-px.vm-4.1.1, respectively?

A. P images can only support legacy hardware, while px images can only support new CRS-3 hardware.
B. P images can use an SMU to operate as x86 images.
C. P images can only support Power PC hardware, while px images can support both Power PC and Intel hardware in the same chassis.
D. P and px images can both be installed on the same ROMMON version.
E. P and px images are roughly the same because they are built to operate on the same system.

Answer: C
Explanation:

QUESTION NO: 14

Which Cisco IOS XR command sequence will load a specific configuration?

A. (config)#load disk0:name.cfg
B. #copy disk0:name.cfg running-confirguration
C. #copy tftp://255.255.255.255/name.cfg
D. #load commit changes <name>
E. (config)#load commit <name>

Answer: A
Explanation:

QUESTION NO: 15

Which of the following functions can be configured in the Administration Config mode? (Choose two)

A. BGP routing
B. MPLS Traffic Engineering
C. SDR hostname
D. Secure Shell login
E. nonowner SDR

Answer: C,E
Explanation:

QUESTION NO: 16

Which two of the following statements regarding task-based authorization are true? (Choose two.)

A. The user group concept in Cisco IOS XR Software relates to a group of users with common characteristics.
B. All of the user groups are precreated by default.
C. In addition to the predefined task groups, Cisco IOS XR Software provides the ability to custom create task groups consisting of individual tasks.
D. User groups and task groups cannot inherit from other user groups and task groups.

Answer: A,C
Explanation:

QUESTION NO: 17

A network administrator needs to configure a default IPv4 route for a Cisco CRS-1 router. Which Cisco IOS XR command will accomplish this task?

A. RP/0/RSP0/CPU0:R15(config-static)#ip route 0.0.0.0 0.0.0.0 10.52.204.161
B. RP/0/RSP0/CPU0:R15(config-static-afi)#0.0.0.0/0 10.52.204.161
C. RP/0/RSP0/CPU0:R15(config)#router static 0.0.0.0/32 10.52.204.161
D. RP/0/RSP0/CPU0:R15#ip default-network 0.0.0.0 10.52.204.161 255.255.255.255
E. it is not possible to configure static routes in Cisco IOS XR Software

Answer: B
Explanation:

QUESTION NO: 18

What is the main function of LPTS?

A. filter routing updates
B. maintain the Internal Forwarding Information Base (IFIB)
C. classify transit packets
D. guarantee reliable transport service for network management requests

Answer: B
Explanation:

QUESTION NO: 19

Where is the LPTS policer applied?

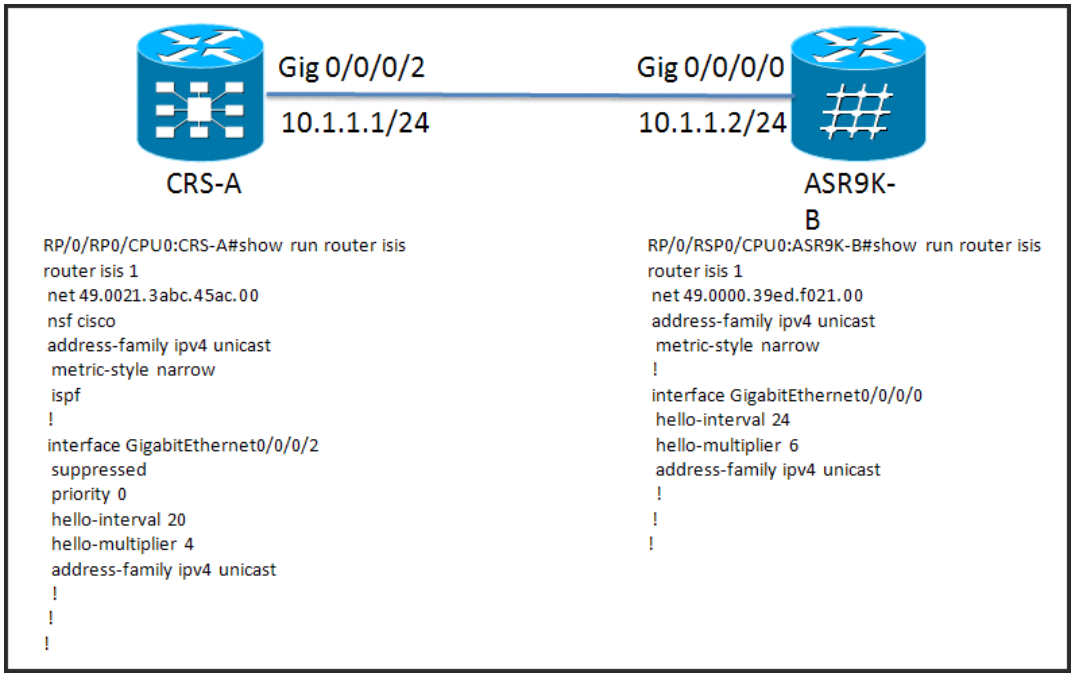
A. egress line-card egress queue
B. egress line-card CPU
C. route processor CPU
D. distributed RP CPU
E. ingress line card

Answer: E

Explanation:

QUESTION NO: 20

Referring to the diagram and configuration on Routers XR-1 and XR-2,



which three statements are correct? (Choose three.)

A. Router XR-1 can never be a designated router or designated intermediate system.
B. The transmission of IS-IS packets will be suppressed on interface GigabitEthernet0/0/0/2 on Router XR-1.