

Study Guide FCSS_SDW_AR-7.4 Pdf | Exam FCSS_SDW_AR-7.4 Question

CSIR NET MATHEMATICS
IFAS – Solved Paper

20. An appropriate diagram showing the relationship between the categories FOOD, VEGETABLES, ROOTS and ICECREAMS is

A

B

C

D

(1) A
(2) B
(3) C
(4) D

UNIT-1

21. Let \mathbb{R} be the field of real numbers. Let V be the vector space of real polynomials of degree at most 1. Consider the bilinear form $(\cdot, \cdot): V \times V \rightarrow \mathbb{R}$. Given by, $(f, g) = \int_0^1 f(x)g(x)dx$. Which one of the following is true?

(1) For all nonzero real numbers a, b , there exists a real number c such that the vectors $ax + b, x + c \in V$ are orthogonal to each other.
 (2) For all nonzero real numbers b , there are infinitely many real numbers c such that the vectors $x + b, x + c \in V$ are orthogonal to each other.
 (3) For all positive real numbers c , there exist infinitely many real numbers a, b such that the vectors $ax + b, x + c \in V$ are orthogonal to each other.
 (4) For all nonzero real numbers b , there are infinitely many real numbers c such that the vectors $b, x + c \in V$ are orthogonal to each other.

22. Let us define a sequence $(a_n)_{n \in \mathbb{N}}$ of real numbers to be a Fibonacci-like sequence if $a_n = a_{n-1} + a_{n-2}$ for $n \geq 3$. What is the dimension of the \mathbb{R} -vector space of Fibonacci-like sequences

(1) 1
(2) 2
(3) infinite and countable
(4) infinite and uncountable

23. Suppose A and B are similar real matrices, that is, there exists an invertible matrix S such that $A = SBA^{-1}$. Which of the following need not be true?

(1) Transpose of A is similar to the transpose of B .
 (2) The minimal polynomial of A is same as the minimal polynomial of B .
 (3) $\text{trace}(A) = \text{trace}(B)$
 (4) The range of A is same as the range of B .

24. Consider the series $\sum_{n=1}^{\infty} \frac{a^n}{n^b (\log_e n)^c}$. For which values of $a, b, c \in \mathbb{R}$, does the series NOT converge

(1) $|a| < 1, b, c \in \mathbb{R}$ (2) $a = 1, b > 1, c \in \mathbb{R}$
 (3) $a = 1, 1 \geq b \geq 0, c < 0$ (4) $a = -1, b \geq 0, c > 0$

25. Let $A = (a_{ij})$ be a real symmetric 3×3 matrix. Consider the quadratic form $Q(x_1, x_2, x_3) = x^T A x$ where $x = (x_1, x_2, x_3)^T$.

(1) If $Q(x_1, x_2, x_3)$ is positive definite, then $a_{ij} > 0$ for all $i \neq j$.
 (2) If $Q(x_1, x_2, x_3)$ is positive definite, then $a_{ij} > 0$ for all i .
 (3) If $a_{ij} > 0$ for all $i \neq j$, then $Q(x_1, x_2, x_3)$ is positive definite.
 (4) If $a_{ij} > 0$ for all i then $Q(x_1, x_2, x_3)$ is positive definite.

26. Let $f_n: [0, 1] \rightarrow \mathbb{R}$ be given by $f_n(t) = (n+2)(n+1)t^n(1-t)$, for all t in $[0, 1]$. Which of the following is true?

(1) The sequence (f_n) converges uniformly.
 (2) The sequence (f_n) converges pointwise but not uniformly.
 (3) The sequence (f_n) diverges on $[0, 1]$.
 (4) $\lim_{n \rightarrow \infty} \int_0^1 f_n(t) dt = \int_0^1 \lim_{n \rightarrow \infty} f_n(t) dt$

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Fortinet FCSS_SDW_AR-7.4 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> SD-WAN Troubleshooting: This part assesses the troubleshooting skills of network support specialists. Candidates should be able to diagnose and resolve issues related to SD-WAN rules, session behaviors, routing inconsistencies, and ADVPN connectivity problems to maintain seamless network operations.
Topic 2	<ul style="list-style-type: none"> SD-WAN Configuration: This section of the exam measures the skills of network engineers and covers configuring a basic SD-WAN setup. Candidates are expected to demonstrate their ability to define SD-WAN members and zones effectively, ensuring foundational network segmentation and management.
Topic 3	<ul style="list-style-type: none"> Rules and Routing: Targeted at network engineers, this section assesses the ability to configure SD-WAN rules and routing policies. Candidates will be tested on managing traffic flow and prioritization across the SD-WAN infrastructure.
Topic 4	<ul style="list-style-type: none"> Configure Performances SLAs: Designed for network administrators, this part focuses on setting up performance Service Level Agreements (SLAs) within SD-WAN environments. Candidates must show proficiency in defining criteria to monitor and maintain network performance and reliability.
Topic 5	<ul style="list-style-type: none"> Advanced IPsec: Intended for security engineers, this section covers the deployment of advanced IPsec topologies for SD-WAN, including hub-and-spoke models, ADVPN configurations, and complex multi-hub or multi-region deployments. Candidates need to demonstrate expertise in securing wide-area networks using IPsec technologies.

Fortinet FCSS - SD-WAN 7.4 Architect Sample Questions (Q21-Q26):

NEW QUESTION # 21

Exhibit.

Serial Number	name	branch_id	admin_gw	sdwan_port1	sdwan_port2	lan_interface	latitude	longitude
FGVM01TM22000077	branch1_fgt	1	172.16.0.2	192.2.0.2	192.2.0.10	10.0.1.254	37.37610911	-122.0260914
FGVM01TM22000078	branch2_fgt	2	172.16.0.10	203.0.11.2	203.0.113.10	10.0.2.254	25.77404351	-80.20508525
FGT40FTK20000624	shop1_fgt	11		198.0.1.1		10.10.1.254		
FGT40FTK20003026	shop2_fgt	12				10.10.2.254	48.88941	2.25125
FGVM02TM24010735		3	172.16.0.10	100.64.33.2	100.64.33.10	10.0.3.254	45.32482	-75.8359

For your ZTP deployment, you review the CSV file shown in exhibit and note that it is missing important information. Which two elements must you change before you can import it into FortiManager? (Choose two.)

- A. You must define a value for each device and each metadata variable that defines an IP address.
- B. You must define a name for each device**
- C. You must define a value for each device and each user-defined metadata variable.
- D. You must associate a device blueprint with each device**

Answer: B,D

NEW QUESTION # 22

When you use the command `diagnose sys session list`, how do you identify the sessions that correspond to traffic steered according to SD-WAN rules?

- A. You cannot identify SD-WAN sessions. You must use the `sdwan session filter`.
- B. You identify sessions steered according to SD-WAN rules with the flag `vw1`.
- C. You identify sessions steered according to SD-WAN rules with the data `sdwan_service_id`.**
- D. You identify sessions steered according to SD-WAN rules with the data `vw1_mbr_seq`.

Answer: C

Explanation:

The `sdwan_service_id` field in the output of `diagnose sys session list` indicates that the session was selected based on an SD-WAN rule, allowing administrators to trace which SD-WAN service (rule) steered the traffic.

NEW QUESTION # 23

Refer to the exhibit.

```
ike V=root:0:VPN1_0:9: received informational request
ike V=root:0:VPN1_0:9: processing notify type SHORTCUT_QUERY
ike V=root:0:VPN1_0: recv shortcut-query 5752810260829471092 6d5cdb5ceab1874d
/000000000000000000 192.2.0.1 10.0.1.101:2048->10.0.3.101:0 0 psk 64 ppk 0 ttl
32 nat 0 ver 2 mode 0 network-id 1
ike V=root:0:VPN1_3: rtt 20 10.0.1.101->10.0.3.101 0 route lookup oif 20 VPN1
gw 192.168.1.4
ike V=root:0: shared dev tunnel lookup, tun-id=192.168.1.4
ike V=root:0:VPN1_3: forward shortcut-query 5752810260829471092 6d5cdb5ceab18
74d/000000000000000000 192.2.0.1 10.0.1.101->10.0.3.101 0 psk 64 ppk 0 ttl 31
ver 2 mode 0, ext-mapping 192.2.0.1:0, network-id 1
```

Which statement best describe the role of the ADVPN device in handling traffic?

- A. This is a hub that has received a query from a spoke and has forwarded it to another spoke.
- B. This is a spoke. The kernel received a shortcut request and forwards the query to another spoke.
- C. This is a spoke that has received a shortcut query from another spoke and has forwarded the response to its hub.
- D. This is a hub in a dual-region topology. The remote hub tunnel ID is 10.0.2.101.

Answer: C

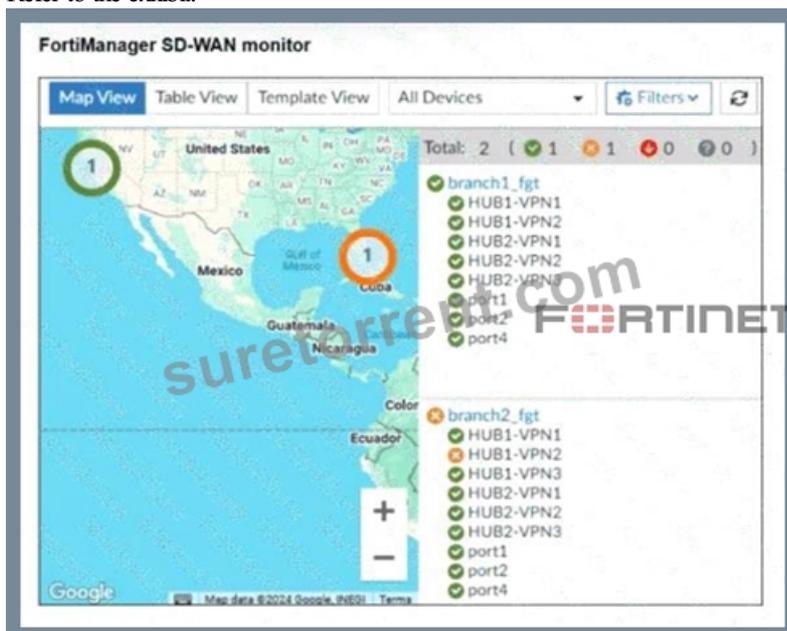
Explanation:

Within ADVPN topologies, shortcut requests and responses traverse spokes and hubs. Fortinet documentation states:

"When a spoke receives a shortcut query from another spoke, it may forward the response to its hub for validation or to facilitate dynamic shortcut tunnel setup. This mechanism allows direct spoke-to-spoke communication for optimized routing and performance, reducing latency and offloading the hub after initial control-plane mediation." This is a core benefit of ADVPN's dynamic shortcut feature.

NEW QUESTION # 24

Refer to the exhibit.



An administrator checks the status of an SD-WAN topology using the FortiManager SD-WAN monitor menus. All members are configured with one or two SLAs.

Which two conclusions can you draw from the output shown? (Choose two.)

- A. One member of branch2_fgt is missing the SLAs.
- B. This SD-WAN topology contains only two branch devices.
- C. The template view should be used to see the hub devices.
- D. branch2_fgt establishes six tunnels to the hubs and they are all up.

Answer: A,B

Explanation:

From the SD-WAN monitor in FortiManager:

"The SD-WAN monitor provides a summary view of the branch devices and their members. In the scenario shown, it is clear that branch2_fgt is missing SLA configuration for one member, as evidenced by the lack of performance metrics. The monitor also shows only two branches in the current topology, allowing quick assessment of branch health and configuration completeness." This kind of visibility is vital for proactive monitoring and rapid troubleshooting in SD-WAN environments.

References:

[FCSS_SDW_AR-7.4 1-0.docx Q18]

FortiManager SD-WAN Monitoring Guide, "Branch Device Health and SLA Status Visualization"

NEW QUESTION # 25

You have configured the performance SLA with the probe mode as Prefer Passive.

What are two observable impacts of this configuration? (Choose two.)

- A. During passive monitoring, the SLA performance rule cannot detect dead members.
- B. FortiGate passively monitors the member if TCP traffic is passing through the member.
- C. FortiGate can offload the traffic that is subject to passive monitoring to hardware.
- D. FortiGate passively monitors the member if ICMP traffic is passing through the member.
- E. After FortiGate switches to active mode, the SLA performance rule falls back to passive monitoring after 3 minutes.

Answer: B,D

Explanation:

FortiGate passively monitors the member if TCP traffic is passing through the member → With Prefer Passive mode, FortiGate inspects existing traffic (like TCP flows) to measure performance metrics without generating its own probes.

FortiGate passively monitors the member if ICMP traffic is passing through the member → Similarly, when ICMP flows exist, FortiGate uses them for SLA checks.

NEW QUESTION # 26

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