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UTTAM's XII Mathematics (Sci.) Papers with Solutions

SECTION - B

Attempt any EIGHT of the following questions:

Q.3. Write converse and inverse of the following statement:
"If $x > y$ then $x^2 > y^2$ ". [Ch. 1 (II)]

Q.4. Find the inverse of the matrix $\begin{bmatrix} 2 & -3 \\ -1 & 2 \end{bmatrix}$. [Ch. 2 (II)]

Q.5. Find the value of K, if the sum of the slopes of the lines represented by $x^2 + Kxy - 3y^2 = 0$ is twice their product. [Ch. 4 (II)]

Q.6. Show that the points A(3, 2, -4), B(0, 8, -10) and C(-2, -3, 1) are collinear. [Ch. 5 (II)]

Q.7. Find the Cartesian equations of the line passing through A(2, 2, 1) and B(1, 3, 0). [Ch. 6 (II)]

Q.8. If two non-zero vectors \vec{a} and \vec{b} are collinear then prove that there exist scalars m and n such that $m\vec{a} + n\vec{b} = \vec{0}$ and $(m, n) \neq (0, 0)$. [Ch. 5 (II)]

Q.9. Differentiate $\cot^{-1}(x^2)$ w.r.t. x. [Ch. 4 (II)]

Q.10. Evaluate $\int \frac{x^3}{9-x^2} dx$. [Ch. 4 (III)]

Q.11. Find the area of the region bounded by the curve $y = x^2$ and the line $y = 4$. [Ch. 5 (III)]

Q.12. Find the area of the region bounded by the line $2y + x = 8$, X-axis and the lines $x = 2$ and $x = 4$. [Ch. 5 (III)]

Q.13. Solve the differential equation $\sec^2 x \cdot \tan y dx + \sec^2 y \cdot \tan x \cdot dy = 0$. [Ch. 6 (III)]

Q.14. Find the probability distribution of number of heads in two tosses of a coin. [Ch. 7 (II)]

SECTION - C

Attempt any EIGHT of the following questions:

Q.15. Find the value of $\cos^{-1}\left(\frac{3}{5}\right) + \cos^{-1}\left(\frac{4}{5}\right)$. [Ch. 3 (II)]

Q.16. Prove that the acute angle θ between the lines represented by the equation $ax^2 + 2hxy + by^2 = 0$ is given by $\tan \theta = \left| \frac{2\sqrt{h^2 - ab}}{a + b} \right|$. [Ch. 4 (II)]

Q.17. If the vectors $3\hat{i} + 5\hat{k}$, $4\hat{i} + 2\hat{j} - 3\hat{k}$ and $3\hat{i} + \hat{j} + 4\hat{k}$ are coplanar edges of a parallelopiped, then find the volume of the parallelopiped. [Ch. 5 (II)]

Q.18. Find the area of the parallelogram whose adjacent sides are the vectors $2\hat{i} - 2\hat{j} + \hat{k}$ and $\hat{i} - 3\hat{j} - 3\hat{k}$. [Ch. 5 (II)]

Q.19. Find the shortest distance between the lines $\hat{r} = (4\hat{i} - \hat{j}) + \lambda(\hat{i} + 2\hat{j} - 3\hat{k})$ and $\hat{r} = (\hat{i} - \hat{j} + 2\hat{k}) + \mu(\hat{i} + 4\hat{j} - 5\hat{k})$. [Ch. 6 (II)]

Q.20. Find the co-ordinates of the foot of the perpendicular drawn from the origin to the plane $2x + y - 2z = 18$. [Ch. 6 (II)]

Q.21. If $x^2 \cdot y^2 = (x + y)^2$, then prove that $\frac{dy}{dx} = \frac{y}{x}$. [Ch. 1 (III)]

Q.22. The volume of a sphere increases at the rate of $20 \text{ cm}^2/\text{sec}$. Find the rate of change of its surface area when its radius is 5 cm . [Ch. 6 (II)]

Q.23. Evaluate $\int \frac{1}{5-4\cos x} dx$. [Ch. 3 (II)]

Q.24. Evaluate $\int \frac{\sqrt{x}}{\sqrt{1-x} + \sqrt{x}} dx$. [Ch. 4 (III)]

Q.25. The probability distribution of discrete random variable X is as follows:

X = x	1	2	3	4	5	6
P(X = x)	k	2k	3k	4k	5k	6k

Find: (i) the value of k
(ii) $P(2 < X < 4)$
(iii) $P(X \geq 3)$ [Ch. 7 (III)]

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CheckPoint Check Point Certified Security Expert R81 Sample Questions (Q108-Q113):

NEW QUESTION # 108

True or False: In R81, more than one administrator can login to the Security Management Server with write permission at the same time.

- A. True, every administrator works on a different database that is independent of the other administrators.
- B. False, only one administrator can login with write permission.
- **C. True, every administrator works in a session that is independent of the other administrators.**
- D. False, this feature has to be enabled in the Global Properties.

Answer: C

Explanation:

In R81, more than one administrator can login to the Security Management Server with write permission at the same time. This feature is enabled by default and allows concurrent administration of the security policy.

Every administrator works in a session that is independent of the other administrators. Changes made by one administrator are not visible to others until they are published. Administrators can also lock objects to prevent others from editing them until they are unlocked. References: R81 Security Management Administration Guide, page 43.

NEW QUESTION # 109

To add a file to the Threat Prevention Whitelist, what two items are needed?

- A. IP address of Management Server and Gateway
- **B. Object Name and MD5 signature**
- C. MD5 signature and Gateway
- D. File name and Gateway

Answer: B

Explanation:

Explanation

To add a file to the Threat Prevention Whitelist, you need two items:

B: Object Name and MD5 signature

You need the Object Name to identify the file or object you want to whitelist, and the MD5 signature to specify the unique hash value of that file. The MD5 signature ensures that the specific file you want to whitelist is identified accurately.

References: Check Point Certified Security Expert R81 Study Guide, Threat Prevention Administration Guide.

NEW QUESTION # 110

After having saved the Clish Configuration with the "save configuration config.txt" command, where can you find the config.txt file?

- A. You have to launch the WebUI and go to "Config" -> "Export Config File" and specify the destination directory of your local file system
- B. You can locate the file via SmartConsole > Command Line.
- **C. You will find it in the home directory of your user account (e.g. /home/admin/)**
- D. You cannot locate the file in the file system since Clish does not have any access to the bash file system

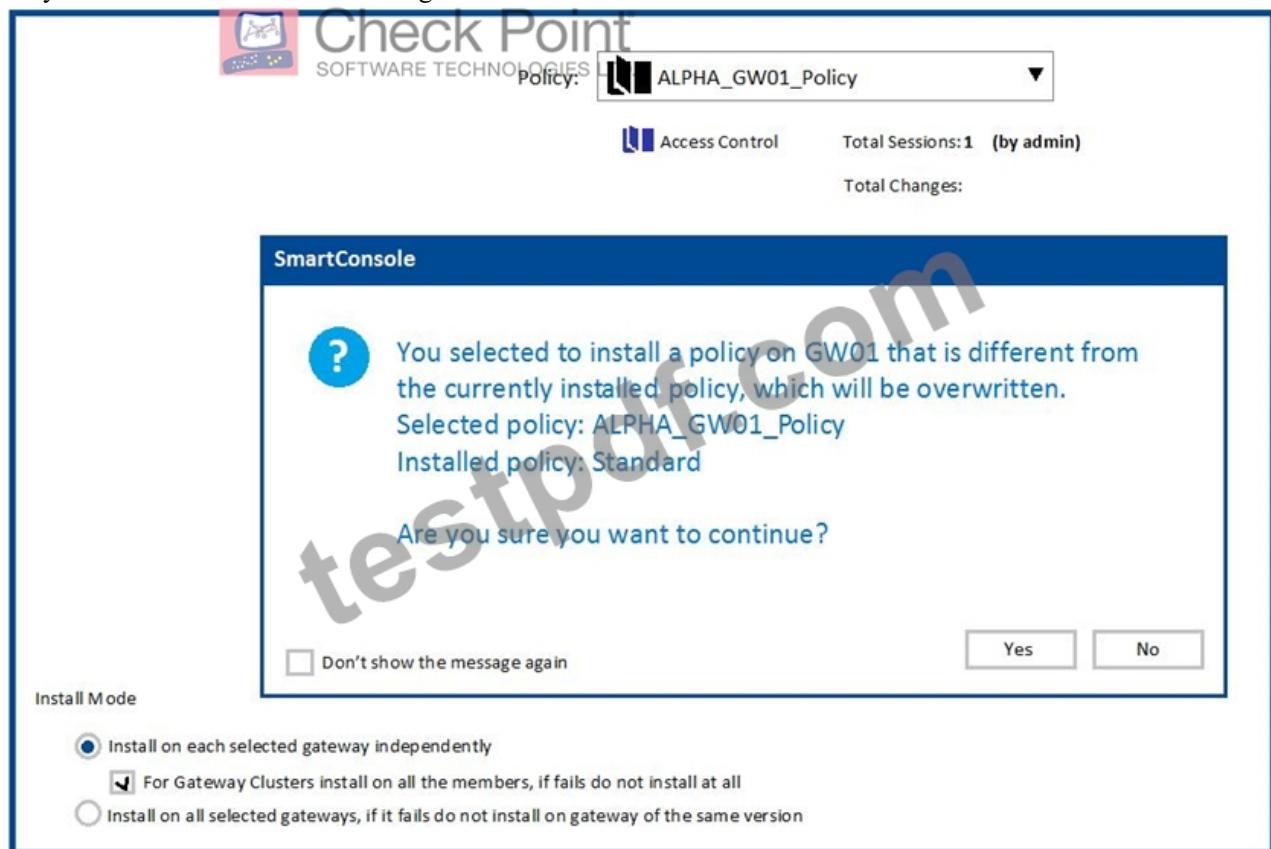
Answer: C

Explanation:

You will find the config.txt file in the home directory of your user account (e.g. /home/admin/). The save configuration config.txt command is a Clish command that saves the current Gaia configuration to a text file. The file is stored in the home directory of the user who executed the command, and it can be accessed by using the cat or less commands in expert mode. The file can also be transferred to another machine by using the scp or sftp commands. The config.txt file contains the Clish commands that are needed to restore the Gaia configuration to the same state as when the file was saved. The file can be used for backup, migration, or troubleshooting purposes.

NEW QUESTION # 111

Why would an administrator see the message below?



The screenshot shows the Check Point SmartConsole interface. At the top, the title 'Check Point SOFTWARE TECHNOLOGIES' is visible, along with a dropdown menu showing 'ALPHA_GW01_Policy'. Below the title, there are navigation links for 'Access Control' and 'Total Sessions: 1 (by admin)'. The main content area is titled 'SmartConsole' and contains a warning message: 'You selected to install a policy on GW01 that is different from the currently installed policy, which will be overwritten. Selected policy: ALPHA_GW01_Policy Installed policy: Standard'. Below this message is a question: 'Are you sure you want to continue?'. There are two buttons at the bottom: 'Yes' and 'No'. At the bottom of the main window, there is a section titled 'Install Mode' with three radio button options: 'Install on each selected gateway independently' (selected), 'For Gateway Clusters install on all the members, if fails do not install at all', and 'Install on all selected gateways, if it fails do not install on gateway of the same version'. A checkbox 'Don't show the message again' is also present.

- A. A new Policy Package created on the Management is going to be installed to the existing Gateway.
- B. A new Policy Package created on the Gateway is going to be installed on the existing Management.
- C. A new Policy Package created on the Gateway and transferred to the Management will be overwritten by the Policy Package currently on the Gateway but can be restored from a periodic backup on the Gateway.
- D. A new Policy Package created on both the Management and Gateway will be deleted and must be backed up first before proceeding.

Answer: A

NEW QUESTION # 112

You are investigating issues with gateway cluster members are not able to establish the first initial cluster synchronization. What service is used by the FWD daemon to do a Full Synchronization?

- A. UDP port 8116
- B. TCP port 443
- C. **TCP port 256**
- D. TCP port 257

Answer: C

NEW QUESTION # 113

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