



DS0-001 Exam Dumps Pdf | Exam DS0-001 Objectives


St. XAVIER'S SENIOR SECONDARY SCHOOL
 PRE-BOARD EXAMINATION 2025
 CLASS : X
 MATHEMATICS
 TIME : 03 HOURS
 MAXIMUM MARKS : 80

GENERAL INSTRUCTIONS:

1. This Question Paper contains 14 questions divided into 5 sections A, B, C, D & E.
2. In Section A, Question NO 1-14 are Multiple Choice Questions (MCQ) and question no 19 and 20 are Assertion-Reason based question of 1 mark each.
3. In Section B, Question NO 21-23 are Very Short Answer (VSA) type questions, carrying 2 marks each.
4. In Section C, Question NO 24-26 are Short Answer (SA) type questions, carrying 3 marks each.
5. In Section D, Question NO 27-31 are Long Answer (LA) type questions, carrying 5 marks each.
6. In Section E, Question NO 32-34 are Case Study Based questions carrying 4 marks each with sub parts.
7. All questions are compulsory. However, internal choice is 2 Questions of Section-B, 2 Questions of Section-C, 2 Questions of Section-D has been provided. An internal choice has been provided in all the 2 marks questions of Section E.
8. Draw neat figures wherever required. Take $\pi = \frac{22}{7}$ wherever required if not stated.
9. Use of calculators is not allowed.

Q. No.	SECTION-A (MULTIPLE CHOICE QUESTIONS)	[1X20]	MARKS	
01.	The largest number which when divided 70 and 125 leaving remainders 5 and 8 respectively is a. 5 b. 8 c. 21 d. 13		1	
02.	Let a and b be two positive integers such that $a = p^3q^4$ and $b = p^2q^3$, where p and q are prime numbers. If $HCF(a, b) = p^m q^n$ and $LCM(a, b) = p^r q^s$, then $(m+n)(r+s)$ is equal to a. 15 b. 30 c. 35 d. 72		1	
03.	If α and β are zeroes of the polynomial $ax^2 + bx + c$ then the polynomial having zeroes are $-\alpha$ and $-\beta$ is a. $ax^2 - bx + c$ b. $ax^2 + bx - c$ c. $cx^2 + bx + a$ d. $cx^2 + bx - a$		1	
04.	The pair of equations $y=0$ and $y=7$ has: a. unique solution b. no solution c. two solutions d. infinitely many solutions.		1	
05.	Before 7 yrs father's age was 7 times age of his son. After 3 yrs fathers age will be 3 times age of his son. Their present ages are a. 42, 14 b. 42, 13 c. 42, 12 d. 49, 13		1	
06.	The roots of the equation $ax^2 + x + b = 0$ are equal if a. $b^2 = -4a$ b. $b^2 < 4a$ c. $b^2 = 4a$ d. $ab = \frac{1}{4}$		1	
07.	For the quadratic equation $x^2 - 4x + 1 = 0$, the value of $x + \frac{1}{x}$ is a. 2 b. -2 c. 4 d. -4		1	
08.	Which term of the AP: 113, 108, 103, Is the first negative term? a. 22 nd term b. 24 th term c. 26 th term d. 28 th term		1	
09.	If $p - 1, p + 3, p - 1$ forms an AP, then p is equal to a. 4 b. -4 c. 2 d. -2		1	
10.	In $\triangle ABC$ and $\triangle DEF$, $\frac{AB}{DE} = \frac{BC}{EF}$, Which of the following makes the two triangles similar? a. $\angle A = \angle D$ b. $\angle B = \angle D$ c. $\angle B = \angle E$ d. $\angle A = \angle F$		1	
11.	The co-ordinates of 4 th vertex D of a parallelogram ABCD whose three vertices are A(-2,3), B(6,7) and C(8,3) is a. (0,1) b. (0,-1) c. (-1,0) d. (1,0)		1	
12.	If $x = 2\sin^2\theta$, $y = 2\cos^2\theta + 1$ then $x + y$ is equal to a. 1 b. 2 c. 3 d. 4		1	
13.	A ladder is leaning against a vertical wall making an angle 60° with the wall at a height of 6m from the ground. The length of the ladder is a. $6\sqrt{3}$ m b. $8\sqrt{3}$ m c. $4\sqrt{3}$ m d. 12m		1	
14.	In the given fig AC and AB are tangents to a circle centred at O. If $\angle COD = 120^\circ$, then $\angle BAO$ is equal to a. 30° b. 60° c. 45° d. 90°			1

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CompTIA DS0-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Database Management and Maintenance: Here, you'll learn about monitoring and reporting for database management and performance, common database maintenance processes, documentation production, and relevant tools usage. Lastly, the topic focuses on implementing data management tasks.
Topic 2	<ul style="list-style-type: none"> Business Continuity: Finally, this topic covers the importance of disaster recovery techniques. Moreover, the topic explains backup and restore best practices and processes.
Topic 3	<ul style="list-style-type: none"> Database Fundamentals: This topic covers database structure types, SQL code development and modification based on scenarios, comparison of scripting methods and environments, and the impact of programming on database operations.

Topic 4	<ul style="list-style-type: none"> • Database Deployment: In this topic, you'll find discussions on database planning and design aspects. It also focuses on the implementation, testing, and deployment phases of databases.
Topic 5	<ul style="list-style-type: none"> • Data and Database Security: This topic focuses on data security concepts, governance and regulatory compliance purposes, implementing authentication and authorization policies and best practices. Additionally, the topic discusses database infrastructure security, and understanding types of attacks and their effects on data systems.

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CompTIA DataSys+ Certification Exam Sample Questions (Q93-Q98):

NEW QUESTION # 93

Which of the following computer services associates IP network addresses with text-based names in order to facilitate identification and connectivity?

- A. NTP
- B. IDNS
- C. DHCP
- D. LDAP

Answer: B

Explanation:

The computer service that associates IP network addresses with text-based names in order to facilitate identification and connectivity is IDNS. IDNS, or Internet Domain Name System (DNS), is a service that translates domain names into IP addresses and vice versa. Domain names are human-readable names that identify websites or devices on the internet, such as www.comptia.org or www.google.com. IP addresses are numerical identifiers that locate websites or devices on the internet, such as 104.18.26.46 or 142.250.72.238. IDNS helps users to access websites or devices using domain names instead of IP addresses, which are easier to remember and type. IDNS also helps administrators to manage websites or devices using domain names instead of IP addresses, which are more flexible and scalable. The other options are either different computer services or not related to IP network addresses or text-based names at all. For example, LDAP, or Lightweight Directory Access Protocol, is a service that provides access to directory information such as users, groups, or devices on a network; NTP, or Network Time Protocol, is a service that synchronizes the clocks of computers or devices on a network; DHCP, or Dynamic Host Configuration Protocol, is a service that assigns IP addresses and other network configuration parameters to computers or devices on a network. Reference: CompTIA DataSys+ Course Outline, Domain 2.0 Database Deployment, Objective 2.1 Given a scenario, select an appropriate database deployment method.

NEW QUESTION # 94

A database administrator would like to create a table named XYZ. Which of the following queries should the database administrator use to create the table?

- A. ☐
- B. ☐
- C. ☒
- D. ☐

Answer: C

Explanation:

The query that the administrator should use to create the table is option B. This query uses the CREATE TABLE statement to define a new table named XYZ with three columns: ID, Name, and Age. Each column has a data type and a constraint, such as NOT NULL, PRIMARY KEY, or CHECK. The other options either have syntax errors, use incorrect keywords, or do not specify the table name or columns correctly.

NEW QUESTION # 95

Which of the following involves executing code against a database?

- A. Phishing
- **B. SQL injection**
- C. On-path attack
- D. Social engineering

Answer: B

Explanation:

SQL injection is an attack technique that involves injecting and executing malicious SQL code against a database to manipulate or access data.

NEW QUESTION # 96

An automated script is using common passwords to gain access to a remote system. Which of the following attacks is being performed?

- A. Phishing
- **B. Brute-force**
- C. SQL injection
- D. DoS

Answer: B

Explanation:

The attack that is being performed is brute-force. A brute-force attack is a type of attack that tries to guess a password or a key by systematically trying all possible combinations of characters or values until the correct one is found. A brute-force attack can use common passwords, such as "123456", "password", or "qwerty", as well as dictionaries, word lists, or patterns to speed up the process. A brute-force attack can target a remote system, such as a web server, an email account, or a network device, and gain unauthorized access to its data or resources. The other options are either different types of attacks or not related to password guessing. For example, a DoS, or Denial-of-Service, attack is a type of attack that floods a system with requests or traffic to overwhelm its capacity and prevent legitimate users from accessing it; an SQL injection attack is a type of attack that inserts malicious SQL statements into an input field or parameter of a web application to manipulate or compromise the underlying database; a phishing attack is a type of attack that sends fraudulent emails or messages that appear to come from a trusted source to trick users into revealing their personal or financial information.

NEW QUESTION # 97

A company needs information about the performance of users in the sales department. Which of the following commands should a database administrator use for this task?

- A. DELETE
- B. UPDATE
- C. DROP
- **D. SELECT**

Answer: D

Explanation:

The command that the database administrator should use for this task is SELECT. The SELECT command is a SQL statement that retrieves data from one or more tables or views in a database.

The SELECT command can also use various clauses or options to filter, group, sort, or aggregate data according to specific criteria or conditions. By using the SELECT command, the database administrator can obtain information about the performance of users in the sales department, such as their sales volume, revenue, commission, etc. The other options are either not related or not suitable for this task. For example, DROP is a SQL command that deletes an existing table or object from a database; UPDATE is a SQL command that modifies existing data in one or more rows of a table; DELETE is a SQL command that removes existing data from one or more rows of a table.

NEW QUESTION # 98

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In fact, in real life, we often use performance of high and low to measure a person's level of high or low, when we choose to find a good job, there is important to get the DS0-001 certification as you can. Our society needs to various comprehensive talents, rather than a man only know the book knowledge but not understand the applied to real bookworm, therefore, we need to get the DS0-001 Certification, obtain the corresponding certifications. What a wonderful news it is for everyone who wants to pass the certification exams. There is a fabulous product to prompt the efficiency--the DS0-001 exam prep, as far as concerned, it can bring you high quality learning platform to pass the variety of exams.

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