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34	A	B	C	D	E
35	A	B	C	D	E
36	A	B	C	D	E
37	A	B	C	D	E
38	A	B	C	D	E
39	A	B	C	D	E

PRACTICE QUESTIONS

DANTES Eligible Military Service Member (DSST)

SN536

Computing & Information Technology

EDITION

Demo

QUESTIONS

9

FORMAT

Limited Edition PDF

Before you begin

What this is

9 practice questions for DANTES Eligible Military Service Member (DSST) SN536 , each with its answer key and an explanation. Answer a question before you read its key — the explanation is worth more once you have committed.

If something looks wrong

Send us three things and we will check it:

- the exam code, SN536
- the question number
- the email address on your order

Write to **support@mometrix.net**. We reply within one business day.

QUESTION 1 SINGLE CHOICE

Which component of a computer is responsible for executing program instructions by performing arithmetic, logic, and control operations?

- ☐ A Random Access Memory (RAM)
- ☒ B Central Processing Unit (CPU)
- ☐ C Hard Disk Drive (HDD)
- ☐ D Basic Input/Output System (BIOS)

ANSWER B

WHY The CPU (Central Processing Unit) is the component that fetches, decodes, and executes program instructions. RAM stores data temporarily for the CPU to use, the HDD provides long-term storage, and the BIOS initializes hardware during boot but does not execute program instructions in the general sense the CPU does.

QUESTION 2 SINGLE CHOICE

Which operating system function is primarily responsible for managing the computer's main memory, including allocating space to running processes and reclaiming it when they terminate?

- ☐ A Process scheduling
- ☒ B Memory management
- ☐ C Device driver handling
- ☐ D File system mounting

ANSWER B

WHY Memory management is the OS function that tracks and allocates the computer's physical and virtual memory to processes. Process scheduling decides the order of CPU access, device drivers handle hardware, and file system mounting makes storage accessible — none of these primarily manage memory allocation.

QUESTION 3 SINGLE CHOICE

In binary, how many distinct values can be represented using 8 bits?

- ☐ A 64
- ☐ B 128
- ☒ C 256
- ☐ D 512

ANSWER C

WHY With 8 bits, there are $2^8 = 256$ distinct values (0 through 255). 64 is 2^6 , 128 is 2^7 , and 512 is 2^9 , so those are incorrect counts.

QUESTION 4 SINGLE CHOICE

Which layer of the OSI reference model is responsible for routing packets between different IP networks?

- ☐ A Data Link layer
- ☒ B Network layer
- ☐ C Transport layer
- ☐ D Session layer

ANSWER B

WHY The Network layer (Layer 3) handles logical addressing and routing of packets between networks using protocols such as IP. The Data Link layer handles framing on a single link, the Transport layer handles end-to-end connections (TCP/UDP), and the Session layer manages dialogue control between applications.

QUESTION 5

MULTIPLE CHOICE

Which of the following are transport-layer protocols commonly used on TCP/IP networks? (Choose two.)

- ☒ **A** TCP
- ☒ **B** UDP
- ☐ **C** HTTP
- ☐ **D** IP

ANSWER A • B

WHY TCP (Transmission Control Protocol) and UDP (User Datagram Protocol) both operate at the transport layer of the TCP/IP model. HTTP is an application-layer protocol and IP is a network-layer protocol, so neither belongs to the transport layer.

QUESTION 6

SINGLE CHOICE

Which term describes a software vulnerability that is known to attackers but for which no patch is yet available?

- ☒ **A** Zero-day
- ☐ **B** Brute-force
- ☐ **C** Denial of service
- ☐ **D** Man-in-the-middle

ANSWER A

WHY A zero-day is a vulnerability that is exploited before a vendor has issued a patch, meaning defenders have zero days to react. Brute-force is an attack technique, denial-of-service is an attack outcome, and man-in-the-middle is an attack class — none describe an unpatched vulnerability.

QUESTION 7

SINGLE CHOICE

In a relational database, what is the term for a column (or combination of columns) whose values uniquely identify each row in a table?

- ☐ A Foreign key
- ☐ B Index
- ☒ C Primary key
- ☐ D View

ANSWER C

WHY A primary key is a column (or set of columns) that uniquely identifies each row in a relational table. A foreign key references a primary key in another table, an index speeds up lookups but does not enforce uniqueness by definition, and a view is a saved query.

QUESTION 8

MULTIPLE CHOICE

Which of the following are valid categories of programming languages based on their execution model? (Choose two.)

- ☒ A Compiled languages
- ☒ B Interpreted languages
- ☐ C Database languages
- ☐ D Markup languages

ANSWER A • B

WHY Compiled and interpreted are the two primary execution models for programming languages. 'Database languages' and 'markup languages' describe language purposes or families, not execution models, so they are not valid answers in this category.

QUESTION 9

SINGLE CHOICE

Which protocol is used by web browsers to securely retrieve web pages from a web server, and operates on TCP port 443 by default?

- ☐ A HTTP
- ☐ B FTP
- ☒ C HTTPS
- ☐ D SMTP

ANSWER C

WHY HTTPS (HTTP over TLS/SSL) is used for secure web communication and defaults to TCP port 443. Plain HTTP uses port 80, FTP uses ports 20/21 for file transfer, and SMTP uses port 25 for sending email.