

Society for Promotion of Vocational & Technical Education [SOVTECH]

Recruitment for the Post of System Engineer (SDC)

Date of Examination: 04/01/2025

Exam Time: 11:50 AM - 12:20 PM

Exam Slot: A3

ANSWER KEY

#	Question	Answer Key	Remarks
1	<b>Unit testing is done by:</b>  A. Users B. Developers C. Customers D. None of the mentioned	B	
2	<b>Which type of RAM is commonly used for video memory in graphics cards?</b>  A. DRAM B. SDRAM C. VRAM D. SRAM	C	
3	<b>Testing of software with actual data and in an actual environment is known as</b>  A. Regression testing B. Beta testing C. Alpha testing D. None of the above	B	
4	<b>Which of the following is not a Software Development Life Cycle Phase?</b>  A. Requirements Gathering B. Test Closure C. Coding D. Testing	B	
5	<b>What is the role of the "Start of Authority" (SOA) record in a DNS zone?</b>  A. It specifies the authoritative DNS server for the domain B. It provides the email address of the domain administrator C. It holds the expiration time for the domain D. It defines the default TTL for the domain's records	A	
6	<b>What is the role of heuristic scanning in an antivirus program?</b>  A. To detect malware based on known signatures B. To detect unknown or new malware by analyzing suspicious behavior C. To scan files in real time D. To quarantine infected files	B	
7	<b>What is DNS caching, and how does it affect DNS performance?</b>  A. DNS caching stores IP addresses to reduce query times and network traffic B. DNS caching stores only domain names for faster lookup C. DNS caching reduces the load on DNS servers but increases query times D. DNS caching stores encryption keys for secure communications	A	

8	<p><b>Error guessing is a:</b></p> <ul style="list-style-type: none"> <li>A. Test verification techniques</li> <li>B. Test data management techniques</li> <li>C. Test control management techniques</li> <li>D. Test execution techniques</li> </ul>	B	
9	<p><b>Which type of expansion slot is commonly used for high-speed network cards, graphics cards, and sound cards?</b></p> <ul style="list-style-type: none"> <li>A. PCI</li> <li>B. PCIe</li> <li>C. ISA</li> <li>D. AGP</li> </ul>	B	
10	<p><b>Which of the following is the component test standard?</b></p> <ul style="list-style-type: none"> <li>A. BS7925-2</li> <li>B. IEEE 829</li> <li>C. BS7925-1</li> <li>D. IEEE 610</li> </ul>	A	
11	<p><b>What does the term "clock speed" refer to in a computer processor?</b></p> <ul style="list-style-type: none"> <li>A. The rate at which data is transferred between the processor and RAM</li> <li>B. The number of instructions a processor can execute in a second</li> <li>C. The time taken for one complete cycle of the processor's internal clock</li> <li>D. The frequency at which the processor communicates with input/output devices</li> </ul>	C	
12	<p><b>A program with high cyclometric complexity is likely to be:</b></p> <ul style="list-style-type: none"> <li>A. Large</li> <li>B. Small</li> <li>C. Difficult to write</li> <li>D. Difficult to test</li> </ul>	D	
13	<p><b>Which of the following is true about a computer's Bus System?</b></p> <ul style="list-style-type: none"> <li>A. The bus is responsible for managing the power supply to the processor</li> <li>B. The bus handles data, address, and control signals between the CPU and other components</li> <li>C. The bus is a type of RAM used to store instructions</li> <li>D. The bus regulates the temperature of the computer's hardware components</li> </ul>	B	
14	<p><b>What is the key difference between SSD (Solid-State Drive) and HDD (Hard Disk Drive)?</b></p> <ul style="list-style-type: none"> <li>A. SSDs are faster, more durable, and have no moving parts compared to HDDs</li> <li>B. HDDs are faster and more durable than SSDs</li> <li>C. SSDs have higher storage capacity than HDDs</li> <li>D. HDDs use flash memory, while SSDs use spinning disks</li> </ul>	A	
15	<p><b>What is the primary function of the NetBackup catalog?</b></p> <ul style="list-style-type: none"> <li>A. To store backup data</li> <li>B. To store the metadata for backup images</li> <li>C. To manage user access to backup data</li> <li>D. To schedule backup jobs</li> </ul>	B	

16	<p><b>What is the main purpose of the power supply unit (PSU) in a computer?</b></p> <p>A. To store energy for the processor  B. To convert AC power into DC power for internal components  C. To regulate the temperature inside the computer case  D. To provide network connectivity</p>	B	
17	<p><b>What is the purpose of an IPv4 subnet mask?</b></p> <p>A. To define the range of IP addresses available on a network  B. To identify the network and host portions of an IP address  C. To assign dynamic IP addresses to hosts  D. To encrypt IP addresses for secure communication</p>	B	
18	<p><b>What is the function of the IPv4 address range 224.0.0.0 to 239.255.255.255?</b></p> <p>A. Reserved for private networks  B. Reserved for multicast addresses  C. Used for public internet communication  D. Used for loopback addresses</p>	B	
19	<p><b>What is the primary function of the CPU's ALU (Arithmetic Logic Unit)?</b></p> <p>A. To control the flow of data between the CPU and memory  B. To perform mathematical and logical operations  C. To manage input and output operations  D. To execute instructions from the operating system</p>	B	
20	<p><b>What is the purpose of the IPv4 loopback address?</b></p> <p>A. To enable communication between devices on different networks  B. To assign a local IP address for testing the TCP/IP stack on the device  C. To route traffic between multiple subnets  D. To identify a public IP address</p>	B	
21	<p><b>In NetBackup, what is the function of the "media server"?</b></p> <p>A. It manages backup schedules for clients.  B. It stores and retrieves backup data from media.  C. It verifies the integrity of backup images.  D. It acts as the backup client for multiple systems.</p>	B	
22	<p><b>How does a heuristic-based antivirus detection system differ from traditional signature-based detection?</b></p> <p>A. Heuristic detection looks for patterns in the software code, while signature detection matches known virus signatures.  B. Heuristic detection is faster, while signature detection is more accurate.  C. Heuristic detection uses a cloud-based approach, while signature detection uses local databases.  D. Heuristic detection requires frequent updates, while signature detection does not.</p>	A	
23	<p><b>Which of the following is the primary function of a DNS resolver?</b></p> <p>A. To provide a list of available DNS records  B. To forward DNS queries to external DNS servers  C. To resolve domain names to IP addresses  D. To maintain a local DNS cache</p>	C	

24	<p><b>Which of the following is used in NetBackup to back up data in a manner that is independent of the operating system?</b></p> <p>A. Backup Client B. Disk Pool C. NetBackup Vault D. NetBackup Media Server</p>	A	
25	<p><b>What is the function of a heat sink in a computer system?</b></p> <p>A. To cool the RAM B. To protect the CPU from overheating C. To cool the GPU D. To enhance the airflow in the computer chassis</p>	B	
26	<p><b>Which of the following components is responsible for storing the BIOS (Basic Input/Output System) in a computer system?</b></p> <p>A. RAM B. ROM C. CPU D. Hard Disk</p>	B	
27	<p><b>Which of the following is the range of private IP addresses in IPv4 for Class C?</b></p> <p>A. 10.0.0.0 to 10.255.255.255 B. 172.16.0.0 to 172.31.255.255 C. 192.168.0.0 to 192.168.255.255 D. 192.0.0.0 to 192.255.255.255</p>	C	
28	<p><b>In IPv4 addressing, what does the address class "A" represent?</b></p> <p>A. Addresses with a network prefix of 8 bits and a maximum of 16,777,216 hosts B. Addresses with a network prefix of 16 bits and a maximum of 65,536 hosts C. Addresses with a network prefix of 24 bits and a maximum of 254 hosts D. Addresses with a network prefix of 32 bits and no hosts</p>	A	
29	<p><b>Which DNS record type is used to specify the mail server responsible for a domain?</b></p> <p>A. A record B. MX record C. CNAME record D. PTR record</p>	B	
30	<p><b>In a DNS query, what does a "recursive" query mean?</b></p> <p>A. The client requests a direct answer from a DNS server B. The client asks the DNS server to resolve the query by querying other servers C. The DNS server returns a response without consulting any other servers D. The query is repeated at regular intervals</p>	B	