Society for Promotion of Vocational & Technical Education [SOVTECH]

Recruitment for the Post of BMS Engineer (SDC)

Date of Examination: 04/01/2025 Exam Time: 02:00 PM - 02:30 PM Exam Slot: A4

ANSWER KEY

ŧ.	Question	Answer Key	Remarks
	What is the primary function of an Access Control System?	В	
	A. Provide surveillance		
	B. Control unauthorized access		
	C. Increase network speed		
	D. Encrypt data		
	Which component is essential for biometric access control?	В	
	A. RFID tags		
	B. Fingerprint scanner		
	C. Keypad		
	D. Magnetic stripe card		
	Which of the following ensures secure access to sensitive areas?	В	
	A. Firewalls		
	B. Biometric authentication		
	C. CCTV monitoring		
	D. Encryption algorithms		
	Which of the following is NOT an element of an access control system?	С	
	A. Authentication		
	B. Authorization		
	C. Encryption D. Auditing		
	D. Auditing		
5	What does RFID stand for in access control systems?	Α	
	A. Radio Frequency Identification		
	B. Remote Field Identification		
	C. Radio Frequency Integrated Device		
	D. Remote Frequency Interaction Device		
5	What does PTZ stand for in CCTV cameras?	Α	
	A. Pan-Tilt-Zoom		
	B. Point-Tilt-Zoom		
	C. Pivot-Turn-Zoom		
	D. Pan-Turn-Zoom		
,	What does CCTV stand for?	В	
	A. Centralized Circuit Television		
	B. Closed-Circuit Television		
	C. Compact Circuit Television		
	D. Continuous Circuit Television		
3	Which of the following is NOT a component of a basic CCTV system?	С	
	A. Camera		
	B. Display Monitor		
	C. Microphone		
	D. Video Recorder		
)	Which CCTV system uses the internet for video transmission?	В	
	A. Analog CCTV		
	B. IP Camera		
	C. Coaxial CCTV		
	D. Wireless Analog CCTV		

10	What does DVR stand for in a CCTV system?	A	
	A. Digital Video Recorder		
	B. Data Visual Recorder		
	C. Dual Video Router D. Display Video Recorder		
11	What does VESDA stand for?	A	
	What does vest stand for:		
	A. Very Early Smoke Detection Apparatus		
	B. Variable Energy Smoke Detection Apparatus		
	C. Very Efficient Smoke Detection Apparatus		
	D. Variable Efficiency Smoke Detection Apparatus		
12	What type of cooling method is typically used in precision air conditioners?	В	
	A. Evaporative cooling		
	B. Direct expansion (DX) cooling		
	C. Natural ventilation		
	D. Radiant cooling		
13	Which of the following is a common application of diesel generators?	В	
	A. Powering small household appliances		
	B. Providing backup power for hospitals		
	C. Charging electric vehicles		
	D. Running solar panels		
14	What is the primary function of a VESDA system?	В	
	A. To extinguish fires		
	B. To detect smoke at an early stage		
	C. To provide ventilation		
	D. To regulate temperature		
15	Which of the following is a common cause of UPS failure?	A	
	A Oversharging of the betteries		
	A. Overcharging of the batteries		
	B. Proper ventilation		
	C. Regular maintenance		
	D. Use of correct cables		
16	What frequency range is typically used in ultrasonic rodent repellents?	С	
	A. 1-10 Hz		
	B. 20-60 Hz		
	C. 20-60 kHz		
	D. 100-200 kHz		
17	What is a key consideration when placing an ultrasonic rodent repellent in a room?	В	
	A. It should be placed near windows		
	B. It should be placed in a corner where sound waves can disperse effectively		
	C. It should be placed near food sources D. It should be placed in the center of the room		
18	Which of the following is the primary method used by ultrasonic rodent repellents?	A	
10	A. Emitting high-frequency sound waves		
	11. Limiting mgn mequancy sound waves		
	B. Releasing chemical odors C. Producing vibrations in the floor D. Generating heat to deter rodents		

19	What is a major limitation of using ultrasonic rodent repellent systems?	С	
	A. They are ineffective at high frequencies		
	B. They are only effective in open spaces		
	C. Rodents may become accustomed to the sounds over time		
	D. They cause harm to pets		
20	Which component is crucial for generating ultrasonic waves in a rodent repellent system?	Α	
	A. Piezoelectric transducer		
	B. Inductor		
	C. Thermistor D. Electromagnetic coil		
	D. Electromagnetic con		
21	What is a significant security challenge associated with smart racks?	С	
	A. Unauthorized physical access		
	B. High maintenance costs		
	C. Vulnerability to cyberattacks on IoT sensors		
	D. Difficulty in managing multiple devices		
22	Which technology is commonly used in smart racks for environmental monitoring?	С	
	A. RFID sensors		
	B. Infrared cameras		
	C. IoT sensors D. Ultrasonic sensors		
	D. Ultrasonic sensors		
23	What is the role of RFID in smart racks?	В	
	A. Power monitoring		
	B. Tracking assets and inventory management		
	C. Managing cooling systems		
	D. Securing the physical environment		
24	How do smart racks improve energy efficiency in data centers?	В	
	A. By automatically shutting down idle servers B. By monitoring and optimizing power distribution and cooling		
	C. By providing remote access to IT equipment		
	D. By using renewable energy sources		
25	What is the primary function of a smart rack in a data center?	С	
	A. Provide physical security		
	B. Manage cable organization		
	C. Monitor and optimize power, cooling, and space utilization		
	D. Store hardware components securely		
26	In an ultrasonic water level detection system, what does the sensor measure?	В	
	A. Water pressure		
	B. Time of flight of sound waves		
	C. Electrical conductivity		
	D. Water temperature		
27	What is the primary advantage of using a capacitive water level sensor?	В	
	A. Low power consumption		
	B. Non-contact measurement		
	C. Easy to clean		
	D. Works well with saline water		
28	In industries, which water level detection system is most commonly used for precise liquid level control?	С	
28			
28	A. Float-based system		
28	B. Resistive sensor system		
28			

29	Which sensor works based on the change in resistance with water presence?	В	
	A. Ultrasonic sensor		
	B. Conductive sensor		
	C. Optical sensor		
	D. Capacitive sensor		
30	What is the function of a relay in a water level control circuit?	С	
	A. To sense water level		
	B. To amplify the signal		
	C. To switch the water pump ON or OFF		
	D. To protect the circuit		

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