	SIC - Internet of Things (Essentials of Internet of Things)									
S.no	**NOS Name**	**Element Name**	**Type of question**	**Difficulty Level**	**Question**	**OPTION A**	**OPTION B**	**OPTION C**	**OPTION D**	**Answer**
1	**SIC - Internet of Things (Essentials of Internet of Things)**	**IoT Foundations**	Direct Concept Based	Easy	What does IoT stand for?	Internet of Technology	Internet of Things	Integration of Technology	Interface of Things	B
			Direct Concept Based	Easy	Which device is used to collect data from the environment?	Actuator	Sensor	Router	Gateway	B
			Direct Concept Based	Easy	Which of the following is a microcontroller?	Raspberry Pi	Laptop	Arduino Uno	Server	C
			Direct Concept Based	Easy	Which communication protocol is widely used for lightweight IoT messaging?	FTP	SMTP	POP3	MQTT	D
			Direct Concept Based	Easy	Which communication technology provides long-range, low-power connectivity for IoT devices?	LoRa	Wi-Fi	Bluetooth	USB	A
2		**IoT Hardware and Sensors**	Direct Concept Based	Easy	What is the main function of an actuator?	Display information	Process images	Perform physical actions based on commands	Store data	C
			Direct Concept Based	Easy	Which protocol is commonly used to secure communication in IoT?	SSL/TLS	Telnet	SNMP	FTP	A
			Direct Concept Based	Easy	Which of the following is an IoT cloud platform?	VLC Media Player	Adobe Photoshop	Microsoft Word	AWS IoT	D
			Direct Concept Based	Easy	GPIO pins on Raspberry Pi are mainly used for:	Playing videos	Connecting sensors and actuators	Browsing the internet	Printing documents	B
			Direct Concept Based	Easy	Which networking tool is used to analyze network packets?	Paint	Excel	Wireshark	VLC	C
3		**IoT Networking and Communication**	Direct Concept Based	Easy	Which Python library is commonly used for data analysis?	Photoshop	AutoCAD	CorelDRAW	Pandas	A
			Direct Concept Based	Easy	What is the primary purpose of edge computing?	Increase internet speed only	Store only images	Replace sensors	Process data near the data source	D
			Direct Concept Based	Easy	Which of the following is an application of IoT?	Industrial Automation	Smart Agriculture	All of the above	Smart Home	C
4			Direct Concept Based	Easy	Which stage comes first in an IoT capstone project?	Testing the project	Defining the problem and objectives	Preparing documentation	Deploying the application	B