

**SYBCA SEM-4**  
**402-IOT (Internet of Things)**  
**Unit: 2 IoT and M2M**

No	Question	Q1-A	Q1-B	Q1-C	Q1-D	Q1-Answer
1	..... involves delivering different types of services over the Internet.	Chemical Computing	Mechanism	Physical Computing	Cloud Computing	D
2	An embedded system is a combination of _____.	Software	Hardware	Both a and b	Devices	C
3	Are sensors used along with other electronic devices?	Yes	No	Maybe	-	A
4	how many fundamental of security of IOT are there	1	2	3	4	C
5	LDR sensor is abbreviated as _____.	Light Dependent Resistor	Light determinant Resistor	Luminous Duplicated Resisto	None of the above	A
6	M2M stands for	man to man	Machine to Machine	Monitor to Monitor	None of the above	B
7	The number of addresses in IPV6 is _____	2^4	2^8	2^32	2^128	D
8	The sensors that produce continuous analog output signal these are consider as	Analog Sensors	Digital Sensors	Both	none	A
9	What is the full form of IoT?	Internet Of Thing	Internet Over Things	Internet Of Things	Internet Of Technology	C
10	which business type used in IOT	B2B	B2C	Both A and B	None of these	C
11	Which device is used to connect between M2M area network and cone network	Actuator	Software	Gateway	Wireless Sensor	C
12	Which of the following are hardware components of an embedded system?	Computer processor	Device peripherals	Computer memory	All the above	D

13	Which of the following are the applications of WSN?	Health monitoring	Industrial process monitoring and control	Military	All the above	D
14	Which of the following devices is used to measure the gases or liquid?	Optical Sensor	Pressure sensor	Smoke Sensor	Gas Sensor	B
15	WSN stands For	Wireless Sensor Network	Wired System Network	wireless System Network	Wired Network	A
16	_____ is a massive amount of data set that cannot be stored processed or analyzed using traditional tools	Big Data	Small Data	Analysis data	All of the Above	A
17	_____ can run without a Human interaction.	computer	M2M	Mobile phone	None of the above	B
18	_____ is about sensor automation and internet platform.	IoT	M2M	Both	None	A
19	_____ that provides packet switched Service	Network Operator	Net operator	Network Domain operator	None	A
20	_____ are the components of the M2M ecosystem	Device providers, ISPs	Platform and service providers	Service users	All of the above	D
21	_____ is considered in both IOT and M2M?	Zigbee	sensor	Actuators	none of these	A
22	_____ are the machine to machine communication applications	Environment monitoring	Supply chain management	Civil protection and public safety	All of the above	D
23	_____ is a subset of IOT.	M2M	Raspberry pi	Arduino	None of these	A
24	_____ not support open API.	m2m	IoT	Both	None	A
25	_____ a concept where two or more than two machines communicate with each other without human interaction using a wired or wireless mechanism.	M2M	IoT2M	IoT2IoT	None	A
26	_____ are the main components in IOT	Low power embedded systems	Cloud Computing	Big data	All of the above	D

27	_____ is a microcontroller or microprocessor based system which is designed to perform a specific task.	embedded system	sensor	electrical motor	All of the above	A
28	_____ system uses point-to-point communication.	Sensor	M2M	IPv4	IPv6	B
29	_____ reduces costs by minimizing equipment maintenance and downtime	Traffic police	Website	M2M	None of the above	C
30	_____ intelligently controlling access to computer resources, enforcing policies, auditing usage, and providing the information necessary to bill for services.	AAA	M2M	CIA	IoT	A
31	_____ are the applications of IOT	House	Virtual environment	Regional office	All of the above	D
32	_____ is process of observing.	Auditing	authentication	authorization	None of Above	A
33	_____ provides a way of identifying a user, typically by having the user enter a valid user name and valid password before access is granted.	Authentication	Confidentiality	Authorization	None of above	A
34	A Sensor is a _____.	Subsystem	Machine	Module	All the above	D
35	AAA stands for	Authentication, Authorization, and Accounting	Authentication, Authorization, and Auditing	Authentication, Audit, and Accounting	Authenticity, Audit, and Accounting	A
36	An embedded system is a combination of _____.	Software	Hardware	Both Hardware and Software	Devices	C
37	Application of Tactile sensors is _____.	Elevator touch-sensitive buttons	Smart mobile phones	Cars	Both a and b	D
38	Are sensors used along with other electronic devices?	Yes	No	Maybe	Not decided	A

39	Benefits of M2M is _____	Low power consumption	Time tolerance	Ability to continue send and receive data	All of the above	D
40	CIA stand for	Confidentiality integrity and availability	Computer interface application	Command interface application	None	A
41	CIA Triad serves following purposes.	creating security measures & ensures that important areas of security are covered.	Only Creating Security measures	Only ensures that important areas of security are covered	All of Above	A
42	Cloud computing allows to access applications and resources over the _____	Private network	Internet	Local area network	Intranet	B
43	Communication technology and Traditional protocols are uses in _____ technology.	IOT	Sensor	Machine Learning	M2M	D
44	Components of M2M _____	Sensor	Wi-Fi	RFID	Above All	D
45	Components of WSN are:	Sensors, Actuators	Actuators, A-D converter	Radionode , sensor	All of above	C
46	Example of WSN is /are:	Weather monitoring system	Health monitoring system	Surveillance system	All of above	D

47	Features of M2M:	Monitoring ability	Low power consumption	Above both	None of the above	C
48	Full form of SaaS _____	Software as a Service	Security as a Software	Software as a Security	Security as a Service	A
49	High-end M2M nodes have:	QoS guarantees	Mobility	Low density deployment	All of these	D
50	IaaS full form is	Infrastructure as a service	Intranet application as service	Internet application server	None	A
51	In IoT security Framework AAA stand for ?	Admin Authorization Area	Admin Access Audit	Authentication Authorization Audit	Authentication Access Area	C
52	In IoT, the business type is _____	B2B	B2C	Both a and b	None of the above	C
53	In M2M the communication type is _____	Point to point	Multipoint	Both a and b	None of the above	A
54	In M2M, a machine can communicate with _____ at a time.	Single Machine	Multiple Machines	Single User	Multiple Users	A
55	In M2M, the business type is	B2B	B2C	Both A and B	None of the above	A
56	In which layer data is analysed and processed?	Data Processing Layer	Application Layer	Sensing Layer	Network Layer	A
57	In which technique data is collected in point and often in on-premises storage infrastructure.	M2M	IoT	Both IoT and M2M	None of these	A

58	Integrity means _____	allow modification or deletion by people who should not have access to them	allow modification only who dont have access rights	allow deletion only who dont have access rights	None	A
59	IR sensor uses	Ultrasound	Infrared	Both	None of the above	B
60	M2M application domain include :	Integration	Collaboration	M2M application services	All of above	D
61	M2M architecture consists :	M2M device domain	M2M network place	Both a & B	None of above	A
62	M2M communication _____ based technology	Only Hardware	Only Software	Both Hardware and Software	Security	A
63	M2M Communication is _____	Telephonic	Telnet	Telemetry	Transport	C
64	M2M refers to connection/ communication between	Machine-Machine	Humans - Machines	Humans - Humans	None	A
65	M2M uses _____	Wireless communication	Ethernet	Both	None of the above	C
66	Machine to machine communication can be used in	Warehouse management system	Supply chain management	Above Both	None of the above	C

67	MQTT is mainly used for _____	M2M communication	Device communication	Internet communication	Wireless communication	A
68	Network domain include :	M2M server	Device manager	Data accumulation	All of above	D
69	Once you have _____ user, they may be authorized for different types of access or activity.	authentication	audited	accountable	None of above	A
70	RFID stand for ?	Radio Frequency Identification	Radio Frequency Independent	Radio First Identity	Radio Frequency Internet Design	A
71	Saas Stands for	Software as a Service	System as a Service	Software as a System	Software as a server	A
72	Secret words or numbers used for protection of devices is called	a. Biometrics data words	b. Private	c. Backup	Password	D
73	Sensor effectiveness depends on _____ parameter.	Sensitivity	Radiation	Restively	All the mentioned	D
74	Sensors convert signals from analog to _____ domain.	Digital	Electrical	Mechanical	Both a and b	A
75	The _____ have heterogeneous type of devices in the network.	M2M	IoT	Both IoT and M2m	None of these	B
76	The _____ uses "pay as you go" model.	Wireless Sensor Networks	Big Data Analytics	Cloud Computing	M2M	C
77	The Circuit receives energy in form variations through	Currents	Voltage	Phase angles	All of the Above	D

78	The function of a sensor is to _____.	Detect events within specified environment	Separate physical parameters	Track and transfer data to computer processor	Both a and c	C
79	The huge number of devices connected to the Internet of Things has to communicate automatically, not via humans. What is this called?	Bot 2 Bot	Skynet	Intercloud	Machine 2 Machine	D
80	The M2M is _____ scalable than IOT.	Highly	Less	Very High	None	B
81	The M2M is a _____ based technology	Software	Hardware	Both a and b	None of the above	B
82	The M2M nodes are of _____ types	One	Two	Three	Four	C
83	The main purpose of _____ technology is to tap into sensor data and transmit it to a network.	IOT	M2M	Actuators	Sensor	B
84	The Main purpose of M2M system is tap into sensor data and _____ it to a network	Transport	Transfer	Transmit	None	C
85	The most common form of authentication	Password	b. Smart cards	c. PIN	d. Digital certificates	A
86	The number of addresses in IPV4 is _____	$2^4$	$2^8$	$2^{32}$	$2^{128}$	C
87	The process of identifying a person before giving an access?	Authentication	b. Encryption	c. Auditing	d. Access control	A
88	The sensor classes are categorized based on the output as	analog and digital	big and small	active and passive	cheap and expensive	A
89	The terms IaaS, PaaS, SaaS is related to which of the following?	Wireless Sensor Networks	Big Data Analytics	Cloud Computing	M2M	C
90	The WSN require _____ unit	Sensing unit	Processing unit	Communication unit	All of the above	D
91	Ultrasonic sensor (HC-SR04) is	Digital sensor	Analog sensor	Gas sensor	None of the above	A
92	What are the features of Big data Analytics?	Open source	Scalability	Data recovery	All of the above	D
93	What are the key components of a M2M system?	Vortex DDS	Smart Homes	Sensors and Wi-Fi	Protocols	C



94	What are the three important V's in Big Data Analytics stands for?	Value, Volume, Velocity	Volume, Velocity, Variety	Volume, Validity, Variety	Volume, Velocity, Volatility	B
95	What are the V's of Big Data?	Volume	Velocity	Variety	All of the above	D
96	What IoT collects?	Device data	Machine generated data	Sensor data	Human generated data	B
97	What is another name for I2C?	Signal wire interface	USART	UART	Two wire interfaces	D
98	What is another name of the tactile sensor?	Weight sensor	Touch sensor	Proximity sensor	Imaging sensor	B
99	What is Full Form of M2M?	Mobile to mobile	Machine to mobile	Machine to Machine	Mobile to Machine	C
100	What is full form of WSN?	Wireless Software Network	Wireless System Network	Wireless Service Network	Wireless Sensor Network	D
101	What is IoT?	network of physical objects embedded with sensors	network of virtual objects	network of objects in the ring structure	network of sensors	A
102	What is MQTT primarily used for?	M2M Communication	User Communication	System data transfer	All of the Above	A

103	What is the difference between IoT authentication and authorization?	Authentication is the process of device identification, and authorization provides permissions.	Authentication provides an undisputed connection, and authorization is the process of writing identification.	Authentication gives permissions to human users, but authorization gives permissions to devices.	Authentication is when technology confirms you are not a robot, and authorization is when an OS confirms your login information.	A
104	What is the full form of IaaS?	Internet as a Software	Infrastructure as a Service	Internet as a Service	Infrastructure as a Software	C
105	What is the standard form of RERR?	Route Error Requests	Route Error Replies	Route Error	None	C
106	What is the standard form of RFID?	Radio Frequency Identification	Radio Frequency-Independent	Radio Frequency-Dependent	None of the above	A
107	What is the standard form of WSNs?	Wireless Sensor Networks	Wired Sensor Networks	Wireless Simple Networks	None of the above	A
108	When was the actual term "Internet of Things" coined?	1999	2000	2001	2002	A
109	Which Communication protocols can be used for M2M local area networks	ZigBee	Bluetooth	ModBus	All of the above	D
110	Which component in M2M perform IP to Non-IP based and Non-IP based to IP based protocol translation?	M2M area network device	Core communication network	M2M Gateway	M2M Application	C

111	Which design considers both the hardware and software during the embedded design?	Memory Design	Software/hardware codesign	Platform-based design	Peripheral design	B
112	Which interface does the fingerprint sensor use?	UART interface	I2P interface	SPI interface	CoAP interface	A
113	Which is/are IoT enabling technologies ?	Wireless sensor network, embedded system	Cloud computing, Big data analytics	Both A & B	None A & B	C
114	Which of the following are application areas of wireless sensor network?	asset and warehouse management	automotive	building monitoring and control	All of above	D
115	Which of the following are examples of sensors?	Tactile sensor	MARG sensor	Biosensor	All the mentioned	D
116	Which of the following are the main components of M2M?	RFID	Sensors	Wifi or Cellular Networks	All of the Above	D
117	Which of the following are the sources of embedded system?	Cell phones	Washing machines	Smart watches	All of the above	D
118	Which of the following command is used to trigger the Amazon echo IOT device?	Hii	Hello	Alexa	Ria	C
119	Which of the following is considered as input to a sensor?	Microcontroller	Processor	Both a and b	Drivers	C
120	Which of the following is correct w.r.t to M2M?	Two machines "communicating" without human interaction	Two machines "communicating" with human interaction	Multiple machines "communicating" with human interaction	Multiple machines "communicating" with Sensors	A

121	Which of the following is not a fundamental component of an IoT system?	Sensors	Connectivity and data processing	User interface	Transformer	D
122	Which of the following is not a part of Embedded Systems?	Microcontroller	Microprocessor	Input/Output Units and Storage Devices	Laptop	D
123	Which of the following is not a phase of big data analytics?	Data Mining	Data Extraction	Data Visualization	Data Identification	A
124	Which of the following is not an application of IoT?	SMART CITY	SMART HOME	SMART CAR	CK1245	D
125	Which of the following is not an IoT device?	Mobile Phone	Pencil	Actuators	Raspberry pi	B
126	Which of the following is not an IoT platform?	Amazon Web Services	Google Cloud	ThingWorx	FirstCry	D
127	Which of the following is not the goal of network security?	Confidentiality	Integrity	Availability	Connectivity	D
128	Which of the following is the example of a short-range wireless network?	VPN	WWW	Internet	Wi-Fi	D
129	Which of the following is/are IoT supporting technologies?	M2M	Cloud Computing	Big Data Analytics	All of the above	D
130	Which of the following languages does GSN work on?	Python	Android	JAVA	C++	C
131	Which of the following makes it harder to use existing security technique for IoT devices?	Resource Constraint IoT devices	Internet	Attacks	Cost	A
132	Which of the following protocols does not exist at the data link layer?	ZigBee Smart Energy	Secure MQTT	WirelessHART	LoRaWAN	B

133	Which of the following protocols is used by USART?	RS32	RS232C	4RS85	All of the these	B
134	Which of the following services are not supported by Cloud Computing?	IaaS	PaaS	SaaS	KaaS	D
135	Which of the following terms indicates that information is to be read only by those people for whom it is intended?	a. Availability	b. Accounting	c. Integrity	d. Confidentiality	D
136	Which of the following touch sensors is used in a cell phone?	Resistive touch sensors	Human sensor	Capacitive touch sensor	Follow sensor	C
137	Which of the following uses non-IP based or proprietary protocols for communication?	M2M	IoT	Both M2M and IoT	None of these	A
138	Which of the given wireless technologies used in IOT, Consumes the least amount of power?	Bluetooth	Zigbee	WI-FI	GSM/CDMA	A
139	Which one from the following is/are security of IoT ?	Confidentiality, Integrity, availability	Authentication, Authorization, and Audithial	Both A & B	None of above	C
140	Which one is an example for M2M?	Remote monitoring	Smart city	Smart agriculture	All of the above	A
141	Which technology allows to devices without the use of the internet to connect between devices.	IOT	M2M	MQTT	Sensor	B
142	Which technology is used for design sensors and associated electronic reader, circuits and Device	Sensor	Network	Intranet	None	A
143	Who coined the term "Internet of Things"?	Kevin Aston	John Wright	Edward Jameson	George Garton	A
144	Wireless Sensor Networks use _____ to monitor the physical and environmental conditions.	Monitors	Sensors	Laptops	Routers	B
145	WSN measures _____ physical parameter.	Sound	Temperature	Polution	All of the above	D