Q=QUESTION A=ANSWER	question_description answer_description	question_explanation answer_explanation
Q	ITU-T Reference model for IoT consists of:	
A	4 Layered Reference Model	
A	5 Layered Reference Model	
A	3 Layered Reference Model	
A	2 Layered Reference Model	
Q	ITU-T reference model (RM-1) for IoT/M2M has the device Layer which is equivalent to:	
A	Data Adaptation layer of the six layer modified OSI layer for IoT/M2M recommened by IETF	
A	Physical cum data link layer of the six layer modified OSI layer for IoT/M2M recommened by IETF	
A	Network layer of the six layer modified OSI layer for IoT/M2M recommened by IETF	
A	Data Adaptation and physical cum data link layers of the six layer modified OSI layer for IoT/M2M recommened by IETF	
Q	ITU-T reference model (RM-1) for IoT/M2M has the Network Layer which is equivalent to:	
A	Network layer of the six layer modified OSI layer for IoT/M2M recommened by IETF	
A	Physical cum data link layer of the six layer modified OSI layer for IoT/M2M recommened by IETF	
A	Data Adaptation and physical cum data link layers of the six layer modified OSI layer for IoT/M2M recommened by IETF	
A	Transport and Network layers of the six layer modified OSI layer for IoT/M2M recommened by IETF	
Q	The ETSI high level M2M architecture has	
A	Two domains	
A	Four domains	
A	Six domains	
A	Ten domain	
Q	The following is one of the ETSI high Level architecture domain	
A	Transport Domain	
A	Application and Network Domain	
A	Services Domain	
A	Security Domain	
Q	Gateway is a functional unit of which domain of ETSI high Level architecture:	
A	Network & Gateway Domain	
A	Transport & Gateway Domain	
A	Device & Gateway Domain	
A	Application & Gateway Domain	

Q	M2M Devices is a functional unit of which domain of ETSI high Level architecture:
A	Network & Device Domain
A	Transport & Device Domain
A	Device & Gateway Domain
A	Application & Gateway Domain
Q	M2M Area Network is a functional unit of which domain of ETSI high Level architecture:
A	Network & Device Domain
A	Transport & Device Domain
A	Device & Gateway Domain
A	Application & Gateway Domain
Q	M2M Management functions comes under which domain of ETSI high Level architecture:
A	Network Domain
A	Transport Domain
A	Device Domain
A	Application Domain
Q	Which is an IoT Functional Block?
A	Gateway
A	Response Model
A	Application
A	Request Model
Q	XMPP offers extensibility to
A	Constrained environment messaging and presence only
A	IP network messaging only
A	To constrained environment messaging and presence protocols as well as IP network messaging
A	M2 M network only
Q	The communication gateway facilitates the communication between web server using
A	using TCP/IP protocol conversion gateway and IOT devices
A	using UDP/DTLS protocol conversion gateway and IOT devices
A	using both TCP/UDP protocol conversion gateway and M2M devices
A	using CoAP client and server
Q	SoAP is a protocol for access
A	to online applications
A	to a web service
A	to a offline service

A	to a web resource
Q	An architectural property of REST is
A	merging concerns
A	To provide user interface
A	seperation of concerns
A	To collect data from sensors
Q	In websockets
A	clients and servers exchange messages after a handshake
A	client and server exchange messages before handshake
A	client and server exchange messages using client server model
A	client and server do not exchange any messages
Q	web objects can communicate using
A	sensors
A	web sockets
A	actuators
A	Router
Q	From data transmits from layer one to another layer , each layer performs processing as per
A	IP address of source
A	IP address of destination
A	data stack
A	header field bits
Q	How many OSI model layers are specified at the TCP/IP protocol suite for internet communication
A	3
A	2
A	4
A	1
Q	Features of Ipv$ are , header consists of
A	4 words
A	5 words
A	2 words
A	6 words
Q	6LoWPAN device node fram size is:
A	same as ethernet
A	256 B
A	127 B
A	2^16 B
Q	Which of the following is not a step in IoT system design methodology?

A	Process specification
A	Domain model specification
A	Structural model specification
A	Functional view specification
Q	IoT systems where the data involved is big, however, the primary analysis requirement is not computationally intensive and can be done locally suitably follows:
A	IoT level-1
A	IoT level-2
A	IoT level-3
A	IoT level-4
Q	Relations between users, services, resources and devices are explored at
A	Process specification
A	Functional view specification
A	Structural model specification
A	Domain model specification
Q	Which of the following is not a type of service providing interaction facility with physical entities?
A	Mode service
A	Interaction service
A	State service
A	Controller service
Q	In domain model specification, resources are
A	Software components which are on-device
A	Software components as network resources
A	Software components which are either on-device or network resources
A	Software components which are neither on-device nor network resources
Q	In specification of functional view, application maps to the
A	Application functional group, device functional group and security functional group
A	Application functional group, device functional group and management functional group
A	Device functional group, management functional group and security functional group
A	Application functional group, management functional group and security functional group
Q	_____includes the communication protocols that form the backbone of IoT systems and enable network connectivity.
A	Communication FG

A	Management FG
A	Device FG
A	Security FG
Q	Which type of relationship is indicated by the symbol, '→' between the objects?
A	Generalization
A	One-way association
A	Specialization
A	Aggregation
Q	Domain model specification in IoT design methodology is
A	technology independent
A	platform independent
A	either technology or platform independent
A	both technology and platform independent
Q	Various attribute details like its name, type and possible values/states with their inter-relationships are represented in
A	Structural model specification
A	Information model specification
A	Operational view specification
A	Functional view specification
Q	Forest fire detection system is an example of
A	IoT level-3
A	IoT level-4
A	IoT level-5
A	IoT level-6
Q	What amongst the following is not true regarding distributed business process?
A	Reduces complexity
A	Reduces communication cost
A	Reduces processing load at the central system
A	Reduces response speed
Q	Finding the annual sales growth and managing the supplies accordingly is an example of
A	Business intelligence
A	Business process
A	Service oriented architecture
A	Business service
Q	Database management system is a software system, which contains a set of programs specially designed for
A	Creation and transaction of stored data
A	Transaction and management of stored data

A	Creation, management and transaction of stored data
A	Compression, management and transaction of stored data
Q	The following property of cloud computing denotes that an application can deploy local as well as remote applications and release them after the application usage
A	Homogeneity
A	Localization
A	Elasticity
A	Resilience
Q	Cloud computing can be considered by the following equation
A	Cloud computing = SaaS + PaaS + IaaS + DaaS
A	Cloud computing = SaaS + PaaS + IaaS
A	Cloud computing = SaaS + IaaS + DaaS
A	Cloud computing = SaaS + PaaS + DaaS
Q	Which among the following is an advanced type of analytics?
A	Descriptive and Predictive analytics
A	Predictive and Prescriptive analytics
A	Descriptive and Prescriptive analytics
A	Descriptive, Prescriptive and Predictive analytics
Q	Real-time analytics management means
A	Ensuring faster OLTP
A	Ensuring faster OLAP
A	Ensuring either faster OLTP or faster OLAP
A	Ensuring faster OLTP as well as OLAP
Q	What amongst the following statements is false for H2 database?
A	Full test search is possible in H2 database
A	H2 database is in pure Java
A	H2 database footprint is around 4 MB
A	H2 database is an encrypted database.
Q	MySQL database have one of the following feature.
A	It is in pure Java
A	It is an encrypted database
A	Its footprint is in the form of JAR file
A	It does not have provisions for in-memory databases
Q	Descriptive analytics of data do not implement one of the following:
A	Finding the aggregates, mean and variances.

A	Reporting or generating spreadsheets
A	Predicting trends in data
A	Creation of key performance indicators
Q	WSN stands for
A	Wired Sensor Network
A	Wireless Sensor Network
A	Wifi Sensor Network
A	Without Sensors Networking
Q	CAN bus is an example of
A	Half-duplex communication
A	Full-duplex communication
A	Simplex comuunication
A	Both simplex and full-duplex communication
Q	A 3-bit ADC system can generate how many different digital outputs
A	8
A	9
A	12
A	16
Q	The resolution of 8 bit ADC/DAC is equal to
A	256
A	265
A	562
A	625
Q	In a NTC thermistor, the resistance value
A	increases with rise in temperature
A	decrease with rise in temperature
A	remains constant with rise in temperature
A	is independent of change in temperature
Q	What is QR code stands for
A	Quick Response code
A	Quick Result code
A	Quick Reading code
A	Query Reading code
Q	Which of the following is not a pin on Raspberry Pi for SPI interface?
A	SCK(Serial Clock)
A	Tx(Transmit)
A	MISO(Master In Slave Out)
A	MOSI(Master Out Slave IN)
Q	Which of the following RAM choice is not available with Raspberry Pi-4?
A	2
A	4
A	6
A	8

Q	Which of the following specification is common in both Raspberry Pi-3B and Raspberry Pi-4 models?
A	Choice of RAM
A	Presence of type C port
A	Presence of USB 3.0
A	2.4 GHz and 5 GHz 802.11b/g/n/acwireless LAN
Q	What is GPS stands for
A	Geometric Positioning System
A	Geostationary Positioning System
A	Global Position Sensor
A	Global Positioning System
Q	Which of the following is not a part of smart-city solution?
A	Smart parking system
A	Smart street lighting
A	Intenet conencted car
A	Smart water management
Q	In the domain architecture reference model for the smart city applications and services, 'edge computing' is a part of
A	Smart cell
A	Cloud network
A	City cloud
A	IoT Core
Q	In the domain architecture reference model for the smart city applications and services, the edge sensors and devices wirelessly connects with small cells using
A	WiMAX
A	WLAN
A	GSM
A	CDMA
Q	A parking assistance system (PAS) is used in which layer of the domain architecture reference model for the smart parking applications and services?
A	Layer3
A	Layer 1
A	Layer 2
A	Layer 4
Q	In the device subdomain of weather monitoring system, which transceiver interface is used for medium range?
A	RFID and NFC
A	ZigBee and Wi-Fi
A	4G and 3G
A	RSA and SHA
Q	How many layers are present in the architecture reference model for TCCICDD?

A	2
A	4
A	6
A	3
Q	Which IoT sensor is used in smart irrigation system?
A	Pressure sensor
A	Accelerometer
A	Gas sensor
A	Moisture sensor

question_type	question_difficulty
answer_isright	answer_position
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