

Total number of questions : 60

PWD11678_EMBEDDED SYSTEM AND INTERNET OF THINGS

Time : 1hr

Max Marks : 50

N.B

- 1) All questions are Multiple Choice Questions having single correct option.
- 2) Attempt any 50 questions out of 60.
- 3) Use of calculator is allowed.
- 4) Each question carries 1 Mark.
- 5) Specially abled students are allowed 20 minutes extra for examination.
- 6) Do not use pencils to darken answer.
- 7) Use only black/blue ball point pen to darken the appropriate circle.
- 8) No change will be allowed once the answer is marked on OMR Sheet.
- 9) Rough work shall not be done on OMR sheet or on question paper.
- 10) Darken ONLY ONE CIRCLE for each answer.

Q.no 1. Information model adds more details to the Virtual Entities by defining their ----- and relations.

A : Virtual

B : System Model

C : Attributes

D : Domain Model

Q.no 2. Which company played a key role in the development of cloud computing?

A : Microsoft

B : Google

C : Amazon

D : Cloudera

Q.no 3. MQTT protocol is based on

A : Client-Server Architecture

B : Publish-Subscribe Architecture

C : Both of the above

D : Peer to peer Architecture

Q.no 4. In M2M/ IoT protocols the payload and header is very _____

A : Small

B : Big

C : Same as Internet Protocol

D : Moderate

Q.no 5. IAD stands for _____

A : Intelligent Assist Device

B : Industrial Assist Device

C : International Assist Device

D : Informative Assist Device

Q.no 6. Operational View Specification is

A : Integration of the devices

B : Integration of the Components

C : Integration of Applications

D : None of above

Q.no 7. Which layer is responsible for WAMP communication ?

A : Application

B : Physical

C : Transport

D : Session

Q.no 8. Unique ID for each device in skynet is _____

A : SSID

B : UID

C : UUID

D : ID

Q.no 9. Which of the following feature is used for scaling EC2 sites ?

A : Auto Replica

B : Auto Scaling

C : Auto Ruling

D : All of the mentioned

Q.no 10. The control in SCADA is _____

A : a) Online control

B : b) Direct control

C : c) Supervisory control

D : d) Automatic control

Q.no 11. MQTT is _____ oriented protocol.

A : Data

B : Message

C : Network

D : Device

Q.no 12. In Core of SODA which standard is based on XML encodings

A : DDL

B : XML

C : SOA

D : SODA

Q.no 13. SOA stands for

A : Solution Oriented Architecture

B : Sector Oriented Architecture

C : Source Oriented Architecture

D : Service Oriented Architecture

Q.no 14. Amazon Web Services supports which type II Audits ?

A : SAS20

B : SAS70

C : SAS702

D : None of the above

Q.no 15. What is the full form of SCADA?

A : a) Supervisory Control and Document Acquisition

B : b) Supervisory Control and Data Acquisition

C : c) Supervisory Column and Data Assessment

D : d) Supervisory Column and Data Assessment

Q.no 16. HelloWeb is an example of _____

A : HTTP

B : MQTT

C : SMTP

D : CoAP

Q.no 17. What is SCADA?

A : a) Software

B : b) Process

C : c) System

D : d) Hardware

Q.no 18. Making the smaller and smaller things have the ability to connect and interact.

A : a) Micro Tech

B : b) Smart tech

C : c) Nano tech

D : d) RFID

Q.no 19. MQTT is _____ protocol.

A : a) Machine to Machine

B : b) Internet of Things

C : c) Machine to Machine and Internet of Things

D : d) Machine Things

Q.no 20. Which one is the Last step in IOT Platforms Design Methodology

A : Application Development

B : Purpose and Requirement

C : Domain Model Specification

D : Service Specification

Q.no 21. Which Django component concerns about metadata ?

A : Model

B : View

C : Template

D : None of the above

Q.no 22. Sensor TEDS Standardization Efforts given by

A : IEEE 1459

B : IEEE 1451

C : IEEE 1441

D : IEEE 1414

Q.no 23. WAMP uses ____ messaging pattern

A : Function call

B : Procedure call

C : RPC

D : Web based

Q.no 24. In 2008, which company launched the PaaS on-demand development platform & become a new pillar of cloud computing?

A : Salesforce

B : The force.com

C : Amazon

D : Cloudera

Q.no 25. What are the parameters that are default values?

A : a) Port_Name and Bits

B : b) Speed and Port_Names

C : c) Speed and Parity

D : d) Stop bit and Flow Control

Q.no 26. What are the distributions supported by raspberry Pi?

A : a) Arch Linux

B : b) Debain

C : c) Fedora Remix

D : d) Arch Linux, Debain, and Fedora Remix

Q.no 27. _____ are called as front end of IoT device

A : Sensors

B : Gateways

C : Processors

D : Applications

Q.no 28. Which one is not True regarding WebSocketAPIs

A : bi-directional

B : Full duplex

C : Not Secure

D : Exclusive Pair Communication

Q.no 29. This protocol is lightweight in nature and is ideal for connecting small devices to constrained networks

A : MQTT

B : CoAP

C : IPv4

D : IPv6

Q.no 30. Key elements of ETSI M2M architecture are

I] M2M device & M2M gateway

II] M2M area network & M2M communication network

III] M2M application server

A : Option I , II and III

B : Option I and II

C : Option II and III

D : Option III

Q.no 31. The main importance of ARM micro-processors is providing operation with _____

A : Low cost and low power consumption

B : Higher degree of multi-tasking

C : Lower error or glitches

D : Efficient memory management

Q.no 32. NFC stands for

A : Near Fast Communication

B : Near Field Communication

C : Near Field Consumer

D : Near Field Connection

Q.no 33. Which statement is True for Real Time Operating System (RTOS):

A : Act as interface between hardware & Application software.

B : RTOS defines the way the system work.

C : Which supervise the application software.

D : All of Above

Q.no 34. Which of the following is (are) example(s) of embedded system for data communication? USB Mass Storage device

A : Network router

B : Digital camera

C : Music player

D : All of these

Q.no 35. Which of the following Hardware can be alone used as IoT Gateway

A : a) RaspberriPI

B : b) NodeMCU ESP8266

C : c) Arduino UNO

D : d) Both a and b

Q.no 36. Gateway provides the connection between ____ and ____

A : Cloud and controller

B : Network and Cloud

C : Network and Controller

D : Controller and Device

Q.no 37. Which of the Following are ZigBee based application

A : FM Radio

B : low-power High-bandwidth

C : Balestic Missile

D : Medical Device Data Collection

Q.no 38. Middleware include all enterprise middleware, B2B, EAI, multi-tenant App servers, etc.

A : SaaS

B : IaaS

C : FaaS

D : PaaS

Q.no 39. WAMP follows _____ approach.

A : Connectionless

B : Connection-Oriented

C : OTA

D : None of the above

Q.no 40. Which of the following is not a correct way to secure communication layer

A : Cloud initiated communication

B : TLS/SSL

C : IPS(Intrusion Prevention System)

D : Firewalls

Q.no 41. Which one is not a type Of RTOS

A : 1)Hard RTOS

B : Soft RTOS

C : Firm RTOS

D : Embedded RTOS

Q.no 42. supports virtualization creates virtual versions of the resources like servers, storage and OS.

A : Grid Computing

B : Data Mining

C : Cloud Computing

D : Business Intelligence

Q.no 43. What bit processor is used in Pi 3?

A : a) 64-bit

B : b) 32-bit

C : c) 128-bit

D : d) Both 64 and 32 bit

Q.no 44. Two Pillars of the Web are

I] The protocol

II] The software

III] Platform Middleware

IV] Business Intelligence

A : Option I and II

B : Option II and III

C : Option I not III

D : Option I not IV

Q.no 45. Amazon EC2 data is stored using _____

A : EBS

B : ECS

C : Cloud

D : Database

Q.no 46. Which of the following is not a characteristic of a ZigBee network?

A : Low power consumption

B : Easy installation.

C : High data rates.

D : Unlicensed radio bands.

Q.no 47. Which of the following database is recommended for unstructured data for IoT application

A : a) Microsoft SQL

B : b) Postgres SQL

C : c) Mongo DB

D : d) None of the above

Q.no 48. Which one is not Advanced features of ARM

A : Thumb

B : Cache

C : Fast Multiplier

D : None Of Above

Q.no 49. Hybrid IoT is

A : made available to general public or a large industry group.

B : shared by several organizations and supports a specific community that has shared concerns.

C : operated solely for an organization.

D : an integrated composition of two or more of the IoT systems (private, community, or public)

Q.no 50. DDL classifies devices into three categories

A : API, actuators and complex devices

B : Bundles, API and sensors

C : OSGI, API and actuators

D : Sensor, actuators and complex devices

Q.no 51. IoT level _____ systems are suitable for solutions where the data involved is big and the analysis requirements are computationally intensive.

A : Level 1

B : Level 2

C : Level 3

D : Level 4

Q.no 52. From following which one is not fit for IOT Level

A : IOT LEVEL 1

B : IOT LEVEL 2

C : IOT LEVEL 3

D : IOT LEVEL 11

Q.no 53. HTTP resources are located by

A : unique resource locator

B : unique resource identifier

C : none of the mentioned

D : uniform resource identifier

Q.no 54. CoAP provides which of the following requirements?

A : Multicast support and simplicity

B : Low overhead and multicast support

C : Simplicity and low overhead

D : Multicast support, Low over head, and simplicity

Q.no 55. Which of the following describes a message-passing taxonomy for a component-based architecture that provides services to clients upon demand?

A : SOA

B : EBS

C : GEC

D : Option 2 and 3

Q.no 56. Private cloud, public cloud, community cloud and hybrid cloud are four models of cloud.

A : deployment

B : characteristic

C : solution

D : service

Q.no 57. In threat modeling, what methodology used to perform risk analysis

A : DREAD

B : OWASP

C : STRIDE

D : DAR

Q.no 58. For.....Secure, lightweight, and efficient key exchange mechanism is required

A : Data Availability

B : Trust Management

C : Data Confidentiality

D : Secure Storage

Q.no 59. _____ is an attack which forces an end user to execute unwanted actions on a web application in which he/she is currently authenticated.

A : Cross-site scoring scripting

B : Cross-site request forgery

C : Two-factor authentication

D : Cross-site scripting

Q.no 60. ARM processors where basically designed for

A : Main frame systems

B : Distributed systems

C : Mobile systems

D : Super computers

Q.no 1. IoT has _____ number of levels.

A : 4

B : 3

C : 5

D : 6

Q.no 2. Which one is the First step in IOT Platforms Design Methodology

A : Process Model Specification

B : Purpose and Requirement

C : Domain Model Specification

D : Service Specification

Q.no 3. SODA all stands for-

A : Service oriented data architecture

B : Service oriented device authentication

C : Service oriented device architecture

D : Service oriented device aapplication

Q.no 4. Two of the most common protocols for SCADA _____

A : DNP3

B : T101

C : Both A & B

D : IPv4

Q.no 5. AutoBahn for IoT uses which protocol

A : WAMP

B : HTTP

C : WAMP & HTTP

D : None of the above

Q.no 6. Which is one of the open-source IaaS (Infrastructure-as-a-Service) and PaaS (Platform-as-a-Service) projects?

A : RedHat Cloud

B : Microsoft Azure

C : AWS

D : Google Cloud Platform

Q.no 7. BRIDGE stands for

A : Building Radio-Frequency Identifier

B : Building Radio-Frequency Identification

C : Building Radio-Frequency Identity

D : Building Radio-Frequent Identification

Q.no 8. Rate monotonic scheduling algorithm is an example of _____category

A : Static

B : Dynamic

C : Hybrid

D : Mixed

Q.no 9. Microphones usually have ____

A : Amplifier filter

B : Noise Filter

C : Round Filter

D : Frequency filter

Q.no 10. The Functional View (FV) defines the functions of the IoT systems grouped into various -----.

A : Network Groups (NGs)

B : Model Groups (MGs)

C : Domain Groups (DGs)

D : Functional Groups (FGs)

Q.no 11. acronym of 6LoWPAN

A : a) IPv6 over Low power wireless personal area network

B : b) IPv4 over Low power wireless private area network

C : c) IPv6 over Low energy wire personal area network

D : d) IPv4 over LongRange wireless private area network

Q.no 12. Which of the following is not involved in working of IoT?

A : a) RFID

B : b) Sensor

C : c) Nano tech

D : d) Server

Q.no 13. Wi-Fi stands for?

A : a) Wireless fidelity

B : b) Wireless Flexibility

C : c) Wide Fidelity

D : d) WAN Flexibility

Q.no 14. Which is the last layer in the WoT architecture?

A : Composition Layer

B : Sharing Layer

C : Findability Layer

D : Accessibility Layer

Q.no 15. The father of IoT.

A : a) Kevin Atrun

B : b) Kevin Atrhur

C : c) Kevin Ashton

D : d) Kevin Thomas

Q.no 16. What are advantages of Auto Scaling ?

A : Better Availability

B : Better Cost management

C : Fault Tolerance

D : All of the mentioned

Q.no 17. Process Specification is the ----- Step in IOT platforms Design Methodology

A : First

B : Second

C : Third

D : Four

Q.no 18. Which of the following is billing and account management service ?

A : Amazon Elastic MapReduce

B : Amazon Mechanical Turk

C : Amazon DevPay

D : Multi-Factor Authentication

Q.no 19. Which of the following is not the component of IoT Endpoint

A : Sensor

B : Gateway

C : Communication Module

D : MCU

Q.no 20. Amazon EC2 configuration determined by ?

A : CPU

B : memory & storage

C : networking capability

D : All of the mentioned

Q.no 21. Amazon launched on a utility computing basis in 2006, which is now categorized as IaaS (Infrastructure as a service).

A : Amazon Prime

B : Amazon Web Series

C : AWS Academy

D : Amazon Web Service

Q.no 22. How many EC2 instance zones or regions exist ?

A : 1

B : 2

C : 3

D : 4

Q.no 23. What kind of electronic document contains a public key?

A : PIN

B : Digital certificate

C : PAN

D : Biometrics

Q.no 24. _____ is an example of Hard Real time Systems

A : Failure in radar functioning

B : Printer

C : Watch

D : Washing Machine

Q.no 25. Which is true about model view controller architecture of Django

A : It represents by a database

B : It is user interface that you see in browser

C : It connects view and model together

D : None of the above

Q.no 26. Which of the following in LPWAN technologies

A : a) LoRa

B : b) GSM

C : c) CDMA

D : d) LTE

Q.no 27. Some communication devices in IoT

A : Sensors

B : Actuators

C : RFID Tags

D : All of Above

Q.no 28. What is the long form of OMTP, which was a forum crated by mobile network operators to discuss standards with manufacturers of cell phones and other mobile devices.

A : Open Mobile Transport Protocol

B : Open Middleware Terminal Platform

C : Open Mobile Terminal Platform

D : Open Middleware Transport Protocol

Q.no 29. Middleware include all Grid middleware such as MSV Cluster middleware, SSV and schedulers, etc.

A : SaaS

B : IaaS

C : FaaS

D : PaaS

Q.no 30. Mention which markup language can be used in restful web api?

A : HTML

B : C

C : JSON and XML

D : JAVA

Q.no 31. SOAP is

A : Generic WoT data exchange protocol

B : Can tunnel over firewall and proxies of existing infrastructure

C : Faster than CORBA

D : Option 1 and 2

Q.no 32. Cloud computing is the fusion of

A : EAI and grid.

B : SaaS and EAI.

C : grid and SOA.

D : SOAP and SaaS.

Q.no 33. Provides mechanisms for computerized building automation devices to exchange information

A : 802.15.4

B : SCADA

C : RFID

D : BACNet

Q.no 34. SOAP is a protocol through which two computer communicates by sharing ----- document

A : XML

B : HTML

C : JAVA

D : API

Q.no 35. A network of physical objects or things embedded with electronics or softwares.

A : a) AI

B : b) ML

C : c) IOT

D : d) Internet

Q.no 36. Which of the following is a structured data store that supports indexing and data queries to both EC2 and S3?

A : CloudWatch

B : Amazon SimpleDB

C : Amazon Cloudfront

D : All of the mentioned

Q.no 37. How many levels are present in a complex SCADA system?

A : a) 3 – levels

B : b) 5 – levels

C : c) 4 – levels

D : d) 6 – levels

Q.no 38. REST is ----- than SOAP

A : Slower

B : Faster

C : none of above

D : All of Above

Q.no 39. Process Model Specification defines

A : USE Cases

B : Processes

C : Views

D : Network Topology

Q.no 40. Which of the following is an (are) an intended purpose(s) of embedded systems?

A : Data collection

B : Data processing

C : Data communication

D : All of these

Q.no 41. What is SCADA?

A : Software

B : Process

C : System

D : Hardware

Q.no 42. Which of the following tools are used for measuring I/O of system to estimate transaction costs ?

A : EBS

B : IOSTAT

C : ESW

D : All of the above

Q.no 43. Application Development in IoT Design Methodology is ----- Step

A : First

B : Second

C : Third

D : Last

Q.no 44. Public IoT is

A : made available to general public or a large industry group.

B : shared by several organizations and supports a specific community that has shared concerns.

C : operated solely for an organization.

D : an integrated composition of two or more of the IoT systems (private, community, or public)

Q.no 45. IOT Life cycle Collect->Communicate->_____ ->Act

A : a) Acknowledge

B : b) Analyze

C : c) Examine

D : d) Rectify

Q.no 46. For Amazon EC2 instance, public and private keys are maintained by ?

A : AWS, client

B : client,AWS

C : only AWS

D : None of the above

Q.no 47. Raspbian OS used in RaspberryPi is based on which of the following OS

A : a) RTOS

B : b) Windows

C : c) Debian Linux

D : d) None of there above

Q.no 48. Which step in in the IoT design methodology is the integration of the devices and components.

A : Application Development

B : Device & Component Integration

C : Operational View Specification

D : None of Above

Q.no 49. What does WoT do ?

(I) Re-invent completely new standards.

(II) Reuses existing and well known standards.

A : ONLY (I)

B : ONLY (II)

C : Both (I) and (II)

D : Neither (I) nor (II)

Q.no 50. In unauthorized access.....should be done before granting the access rights

A : Value-based verification

B : Identity-based verification

C : Name-based verification

D : Number-based verification

Q.no 51. which of the following are IoT Platforms

A : a) AWS IoT

B : b) Microsoft Azure IoT

C : c) PTC ThingWorx

D : d) All of the above

Q.no 52. Which of the following specifies a set of media access control (MAC) and physical layer specifications for implementing WLANs?

A : IEEE 802.16

B : IEEE 802.3

C : IEEE 802.11

D : IEEE 802.15

Q.no 53. Zigbee architectures consist of which the following section

A : Physical

B : ZigBee device

C : Transport

D : IEEE 802.15.4

Q.no 54. Which system is a batch processing extension of the scatter-barrier-reduce primitives of MPI/PVM?

A : Google Map

B : MapReduce

C : MPI and OpenMP

D : Hadoop

Q.no 55. The processor must accept and process the frame before the next frame is called as _____

A : Hard Real time systems

B : Real time constraints

C : Real data constraints

D : Soft real constraints

Q.no 56. Which of the following is the heart of a SCADA system?

A : PLC

B : HMI

C : Alarm task

D : I/O task

Q.no 57. IaaS, PaaS and SaaS are three models of cloud.

A : deployment

B : characteristic

C : solution

D : service

Q.no 58. REST follows _____ communication model

A : Request Response model

B : Publish Subscribe model

C : Push Pull model

D : Exclusive Pair model

Q.no 59. _____ is a collection of wireless broadband standards (WiMax).

A : IEEE 802.3

B : IEEE 802.11

C : IEEE 802.16

D : IEEE 802.15.4

Q.no 60. Embedded Systems applications typically involve processing information as _____

A : Block

B : Logical Volumes

C : Distance

D : Signals

Q.no 1. The object in IoT will be empowered by _____

A : Network

B : Cloud

C : Devices

D : Connectivity

Q.no 2. What is the default user in Debain on Raspberry Pi?

A : a) Default

B : b) User

C : c) Pi

D : d) Root

Q.no 3. Standard ports of MQTT are

A : I2C

B : SSL

C : USART

D : TCP/IP

Q.no 4. M2M protocol standards activities include..

A : M2MXML

B : SDN

C : NFV

D : SNMP

Q.no 5. Websocket is the example of which communication model

A : Request – Response

B : Publish – Subscribe

C : Push-Pull

D : Exclusive Pair

Q.no 6. _____ is not an enabling technology of IoT

A : Cloud Computing

B : Big data Analytics

C : Wireless sensor network

D : Operating System

Q.no 7. _____ allows us to control electronic components

A : RESTful API

B : WebSocket API

C : HTTP

D : MQTT

Q.no 8. Which protocol is an open standard

A : CoAP

B : MQTT

C : XMPP

D : HTTP

Q.no 9. In 1999, Marc Benioff founded a company, which pioneered the multi-tenant SaaS model, a new application-delivering mechanism. Which company is that?

A : Salesforce

B : Oracle Siebel

C : SAP CRM

D : Infusionsoft

Q.no 10. Domain Model Specification is the ----- Step in IOT platforms Design Methodology

A : First

B : Second

C : Third

D : Four

Q.no 11. MQTT stands for _____

A : a) MQ Telemetry Things

B : b) MQ Transport Telemetry

C : c) MQ Transport Things

D : d) MQ Telemetry Transport

Q.no 12. Which of the following is storage data interchange interface for stored data objects?

A : OCC

B : OCCI

C : OCMI

D : All of the above

Q.no 13. How many categories of storage devices broadly exist in cloud?

A : 1

B : 2

C : 3

D : 4

Q.no 14. Things in IoT refers to_____

A : General device

B : Information

C : IoT devices

D : Object

Q.no 15. ____ is virtual server platform that allows users to create and run virtual machines on Amazon's server farm.

A : EC2

B : Azure

C : EC5

D : None of the above

Q.no 16. Which Django component concerns about metadata ?

A : Model

B : View

C : Template

D : None of the above

Q.no 17. Amazon S3 stands for

A : Secure storage service

B : Session storage service

C : Simple storage service

D : Sample storage service

Q.no 18. Which of the following impose additional overhead on clients and offer faster transfer?

A : Block Storage

B : File Storage

C : File Server

D : All of the above

Q.no 19. Services in Operational View Specifications are

A : Mode service

B : State service

C : Controller Service

D : All of above

Q.no 20. The process of converting data into a format that can not be read by another user

A : Registering

B : Locking

C : Encryption

D : Keying

Q.no 21. Which of the following is not involved in working of IoT?

A : RFID

B : Sensor

C : Nano tech

D : Server

Q.no 22. Several instructions execution simultaneously in?

A : a) processing

B : b) parallel processing

C : c) serial processing

D : d) multitasking

Q.no 23. Which of the following provide access for developers to charge Amazon's customer for their purchases ?

A : FWS

B : FAS

C : FPS

D : All of the mentioned

Q.no 24. Which of the following instance is used by default in AMI?

A : High-Memory Quadruple Extra Large Instance

B : Small Instance

C : Micro Instance

D : High-CPU Extra Large Instance

Q.no 25. Django interaction with application takes place with ____

A : Template

B : model

C : view

D : Service

Q.no 26. For constrained nodes and constrained networks in Internet of Things which protocol is used.

A : IPv4

B : IPv6

C : CoAP

D : MQTT

Q.no 27. _____ is the instruction set used by ARM7

A : 16-bit instruction set

B : 32-bit instruction set

C : 8-bit instruction set

D : 64 Bit instruction set

Q.no 28. Which of the following is not the component of a SCADA system?

A : Database server

B : I/O system

C : PLC controller

D : Sparger controller

Q.no 29. Which of the following makes sure that data is not changed when it not supposed to be?

A : Integrity

B : Availability

C : Confidentiality

D : Accounting

Q.no 30. Which of the following is not the component of a SCADA system?

A : a) Database server

B : b) I/O system

C : c) PLC controller

D : d) Sparger controller

Q.no 31. WiFi is not present in which of the following models?

A : a) Raspberry Pi3

B : b) Raspberry Pi Zero WH

C : c) Raspberry Pi Zero W

D : d) Raspberry Pi Zero

Q.no 32. The has features such as offline support, canvas drawing based on low footprint SVG graphics, GeolocationAPI, video and audio streaming support with flash, WebStorage, CSS3 Selectors, 2D animation for mobile cloud applications.

A : HTML5

B : HTML4

C : HTML3

D : HTML2

Q.no 33. Standardization is like a double-edged sword:But it may threaten when standards are accepted by the market

A : innovation and inhibit change

B : innovation

C : inhibit change

D : change

Q.no 34. Applications using managed cloud storage are _____ as a Service Web service.

A : Infrastructure

B : Platform

C : Software

D : All of the above

Q.no 35. Gateway provides the connection between ____ and ____

A : Cloud and controller

B : Network and Cloud

C : Network and Controller

D : Controller and Device

Q.no 36. List out the tools or API for developing or testing web api?

A : Spring REST web service using MVC

B : Jersey API

C : Axis

D : All of above

Q.no 37. A smart object is defined by IPSO

A : Internet Protocol Smart Object

B : Internet Protocol Sensor Object

C : International Protocol Smart Object

D : International Protocol Sensor Object

Q.no 38. Which API are supported by SkyNet ?

A : HTTP

B : REST

C : Web Socket

D : All of the above

Q.no 39. KNX protocol Standardized , communications protocol for automation

A : ISO-based network

B : OSI-based network

C : ISI-OSI-based transport

D : ISO-based transport

Q.no 40. Which of the following factors might offset the cost of offline access in hybrid applications?

A : Scalability

B : cost

C : ubiquitous access

D : All of the above

Q.no 41. Which of the following layers are defined by the ZigBee stack?

A : Transport layer

B : Physical layer.

C : Application Support sub-layer.

D : Medium Access layer

Q.no 42. RFID stands for?

A : a) Random frequency identification

B : b) Radio frequency identification

C : c) Random frequency information

D : d) Radio frequency information

Q.no 43. The mango open source software platform for IOT and M2M has natural fit between

A : CORBA &DOM

B : POJO & JSON

C : JASON &M2M

D : SOAP & POJO

Q.no 44. WAMP follows ____ communication model

A : Push pull model

B : Publish subscribe model

C : Request Response model

D : Exclusive pair model

Q.no 45. XMPP is an example of _____ Layer in IoT

A : Transport Layer

B : Link Layer

C : Network Layer

D : Application Layer

Q.no 46. _____ is the processor used by ARM7.

A : 8-bit CISC

B : 8-bit RISC

C : 32-bit CISC

D : 32-bit RISC

Q.no 47. Community IoT is

A : made available to general public or a large industry group.

B : shared by several organizations and supports a specific community that has shared concerns.

C : operated solely for an organization.

D : an integrated composition of two or more of the IoT systems (private, community, or public)

Q.no 48. Which of the following is the vulnerabilities of IoT

A : MALC

B : DDOS

C : DOSD

D : SSOD

Q.no 49. Amazon EC2 templates for instances are called ??

A : IASI

B : ASI

C : AMI

D : ASTI

Q.no 50. Domain Model Specification defines

A : Physical & Virtual Entity

B : Physical Entity

C : Virtual Entity

D : None of Above

Q.no 51. Frequency band used by 802.11 ah standard is:

A : 60 GHz

B : 2.4 GHz

C : Sub 1 GHz

D : 5 GHz

Q.no 52. Which if the following is Light waight protocol used of IoT Applications

A : a) MQTT

B : b) HTTP

C : c) WebSocket

D : d) All of the above

Q.no 53. Which of the following describes a message-passing taxonomy for a component-based architecture that provides services to clients upon demand?

A : SOA

B : EBS

C : GEC

D : Option 2 and 3

Q.no 54. APS Provides services necessary for.....

A : application Management and the ZigBee layers

B : application objects(endpoints) and the ZigBee device object (ZDO)

C : application Management and security management

D : Application Management

Q.no 55. Find the correct statement with respect to SOA

I) It describes a standard method for requesting services from distributed components and managing the results

II) SOA provides the translation and management layer in an architecture that removes the barrier for a client obtaining desired services

III) With SOA, clients and components can be written in different languages and can use multiple messaging protocols

A : Option I and II

B : Option I,II and III

C : Only Option I

D : Only Option III

Q.no 56. The technological foundation of cloud computing is distributed computing based on communication networks using.....

A : the internet of things

B : Google servers farms and Google Map

C : Amazon Web Service

D : cluster of workstations and networks of workstations

Q.no 57. MQTT protocol uses _____communication model.

A : Publish Subscribe model

B : Push Pull model

C : Exclusive Pair model

D : Request Response model

Q.no 58. Connecting heterogeneous devices that makes the integration across systems and applications much simpler is achieved by

A : IoT

B : WoT

C : Both (a) and (b)

D : Neither (a) nor (b).

Q.no 59. IoT level _____ systems are suitable for solutions where multiple nodes are required, the data involved is big and the analysis requirements are computationally intensive

A : Level1

B : Level 2

C : Level 3

D : Level 4

Q.no 60. is the direct technological ancestor of cloud computing, which also has roots in the COW technology.

A : Pervasive computing

B : Mobile computing

C : Grid computing

D : Quantum Computing

Q.no 1. AutoBahn for IoT uses which protocol

A : WAMP

B : HTTP

C : WAMP & HTTP

D : None of the above

Q.no 2. Operational View Specification consist of

A : service hosting options

B : storage options

C : device options

D : All of above

Q.no 3. WAMP stands for _____

A : Web Analysed Messaging Protocol

B : Web Authorised Messaging Prototcol

C : Web Application Messaging Protocol

D : Web Appliance Messaging Protocol

Q.no 4. Each Functional Group either provides functionalities for interacting with instances of concepts defined in the ----- or provides information related to these concepts.

A : System Model

B : Network Model

C : Domain Model

D : Basic Model

Q.no 5. How many can you create in AWS by default

A : 1

B : 10

C : 100

D : 110

Q.no 6. Which is one of the open-source IaaS (Infrastructure-as-a-Service) and PaaS (Platform-as-a-Service) projects?

A : RedHat Cloud

B : Microsoft Azure

C : AWS

D : Google Cloud Platform

Q.no 7. The sixth step in the IoT design methodology is to define the ----- for the system.

A : IoT level

B : IOT BASICS

C : IOT PAYLOAD

D : IOT CHECKSUM

Q.no 8. MQTT stands for

A : MQ Telemetry Things

B : MQ Transport Telemetry

C : MQ Transport Things

D : MQ Telemetry Transport

Q.no 9. Amazon S3 is

A : data storage infrastructure

B : compute capacity in the cloud

C : relational database in cloud

D : None of the above

Q.no 10. How many types of voice communications in IoT environment :

A : 2

B : 3

C : 4

D : 5

Q.no 11. ANSI/ISA-95 standard used for

A : Reduce cost, errors and risk with production process

B : Reduce errors and risk with production process

C : Reduce cost and risk with production process

D : Reduce cost, and errors and with production process

Q.no 12. SOAP stands for-

A : Simple Object Access Protocol

B : Server Object Access Protocol

C : Simple Orientation Across Protocol

D : Server Orientation Across Protocol

Q.no 13. Amazon Web Services supports which type II Audits ?

A : SAS20

B : SAS70

C : SAS702

D : None of the above

Q.no 14. DCS is a _____

A : a) Distributed Control System

B : b) Data Control System

C : c) Data Column System

D : d) Distributed Column System

Q.no 15. Which of the following system does not provision storage to most users?

A : PaaS

B : IaaS

C : CaaS

D : SaaS

Q.no 16. How many USB ports are present in Raspberry Pi 3?

A : a) 5

B : b) 2

C : c) 4

D : d) 3

Q.no 17. This Process of identifying any individual is called as.

A : Auditing

B : Authorisation

C : Authentication

D : Accounting

Q.no 18. MQTT is _____ oriented protocol.

A : Data

B : Message

C : Network

D : Device

Q.no 19. What is the Ethernet/LAN cable used in RPi?

A : a) Cat5

B : b) Cat5e

C : c) Cat6

D : d) RJ45

Q.no 20. when you publish a message ____ is automatically created.

A : Client

B : Server

C : Process

D : Batch

Q.no 21. The process of identifying assets and threats in an organisation is known as

A : Threat Modeling

B : Security Auditing

C : Security Planning

D : Firewalling

Q.no 22. How many virtual servers can be launch with Amazon EC2 ?

A : 1

B : 2

C : Infinite

D : 0

Q.no 23. IPv4 is _____ bit address

A : a) 24

B : b) 32

C : c) 64

D : d) 128

Q.no 24. Wi-Fi stands for?

A : a) Wireless fidelity

B : b) Wireless Flexibility

C : c) Wide Fidelity

D : d) WAN Flexibility

Q.no 25. In microcontrollers, UART is acronym of_____

A : a) Universal Applied Receiver/Transmitter

B : b) Universal Asynchronous Rectified Transmitter

C : c) Universal Asynchronous Receiver/Transmitter

D : d) United Asynchronous Receiver/Transmitter

Q.no 26. Last step in IoT Design Methodology is

A : IoT Level Specification

B : Functional View Specification

C : Operational View Specification

D : None of Above

Q.no 27. supports virtualization creates virtual versions of the resources like servers, storage and OS.

A : Grid Computing

B : Data Mining

C : Cloud Computing

D : Business Intelligence

Q.no 28. _____ is used to describe a perceived, quickly growing set of web based applications.

A : Web 1.0

B : Web 2.0

C : Web 3.5

D : Web 4.0

Q.no 29. Raspberry Pi Runs on customized Debian Linux called -----

A : UNIX

B : Raspbian OS

C : MAC

D : Windows

Q.no 30. Which of the following protocol is based on REST architecture

A : a) HTTP

B : b) CoAP

C : c) Both a and b

D : d) MQTT

Q.no 31. WiFi uses how much frequency ?

A : 2.2 GHz

B : 3 GHz

C : 3.5 GHz

D : 2.4 GHz

Q.no 32.Involves confidentiality and integrity of sensitive information stored in the system

A : Secure Storage

B : Secure Software Execution

C : Trust Management

D : Data Availability

Q.no 33. The approach/s to build WoT is through _____

(I) RESTful principles.

(II) REST APIs.

A : Only (I)

B : Only (II)

C : Both (I) and (II)

D : Neither (I) nor (II)

Q.no 34. DDL classifies devices into three categories

A : API, actutators and complex devices

B : Bundles, API and sensors

C : OSGI, API and actutators

D : Sensor, actutators and complex devices

Q.no 35. Which of the following Hardware can be alone used as IoT Gateway

A : a) RaspberriPI

B : b) NodeMCU ESP8266

C : c) Arduino UNO

D : d) Both a and b

Q.no 36. Middleware include all Grid middleware such as MSV Cluster middleware, SSV and schedulers, etc.

A : SaaS

B : IaaS

C : FaaS

D : PaaS

Q.no 37. IEEE 802.15.4 framework conceives a 10m communications range with a transfer rate of

A : 250 Kbits/s

B : 520 Kbits/s

C : 205 Kbits/s

D : 250 bits/s

Q.no 38. Range of Zigbee is low-cost and low-powered mesh network _____

A : 10-100 meters

B : 100-1000 meters

C : 10-100 cm

D : 100-1000 cm

Q.no 39. In SCADA Standardization Efforts:The standard specifies the communication ofbetween control devices from different manufacturers

A : plant data

B : non real-time plant data

C : real- time plant data

D : CBR Data

Q.no 40. Which of the following in LPWAN technologies

A : a) LoRa

B : b) GSM

C : c) CDMA

D : d) LTE

Q.no 41. _____ are called as front end of IoT device

A : Sensors

B : Gateways

C : Processors

D : Applications

Q.no 42. Which one is not True regarding WebSocketAPIs

A : bi-directional

B : Full duplex

C : Not Secure

D : Exclusive Pair Communication

Q.no 43. _____ allows us to control electronic components

A : a) RETful API

B : b) RESTful API

C : c) HTTP

D : d) MQTT

Q.no 44. What is the long form of OMTP, which was a forum crated by mobile network operators to discuss standards with manufacturers of cell phones and other mobile devices.

A : Open Mobile Transport Protocol

B : Open Middleware Terminal Platform

C : Open Mobile Terminal Platform

D : Open Middleware Transport Protocol

Q.no 45. _____ registers are there in ARM7.

A : 35 register(28 GPR and 7 SPR)

B : 37 registers(28 GPR and 9 SPR)

C : 37 registers(31 GPR and 6 SPR)

D : 35 register(30 GPR and 5 SPR)

Q.no 46. What is the typical range of transmission distance in a ZigBee network?

A : 5 m.

B : 50 m.

C : 500 m.

D : 5 km

Q.no 47. Which of there following wireless technology provide Mesh Network architecture in easiest way

A : a) Bluetooth

B : b) ZigBee

C : c) Wi-Fi

D : d) None of the above

Q.no 48. WAMP is

A : Unidirectional

B : Bidirectional

C : both

D : None of the above

Q.no 49. which statement is True about RISC

A : Single Clock Cycle

B : Highly pipelined

C : Fixed Format Instruction

D : All of Above

Q.no 50. Which step in in the IoT design methodology is the integration of the devices and components.

A : Application Development

B : Device & Component Integration

C : Operational View Specification

D : None of Above

Q.no 51. Zigbee architectures consist of which the following section

A : Physical

B : ZigBee device

C : Transport

D : IEEE 802.15.4

Q.no 52. Which system is a batch processing extension of the scatter-barrier-reduce primitives of MPI/PVM?

A : Google Map

B : MapReduce

C : MPI and OpenMP

D : Hadoop

Q.no 53. IEEE 802.15.4 is a technical standard which defines the operation of

A : LR-WPANs

B : USN

C : WSN

D : Zigbee

Q.no 54. _____ is a collection of wireless broadband standards (WiMax).

A : IEEE 802.3

B : IEEE 802.11

C : IEEE 802.16

D : IEEE 802.15.4

Q.no 55. which of the following are IoT Platforms

A : a) AWS IoT

B : b) Microsoft Azure IoT

C : c) PTC ThingWorx

D : d) All of the above

Q.no 56. IoT level _____ systems are suitable for solutions where the data involved is big and the analysis requirements are computationally intensive.

A : Level 1

B : Level 2

C : Level 3

D : Level 4

Q.no 57. The cloud middleware consists of two kinds of middleware.....

A : IaaS and PaaS

B : IaaS and SaaS

C : SaaS and PaaS

D : SaaS and BaaS

Q.no 58. ARM processors where basically designed for

A : Main frame systems

B : Distributed systems

C : Mobile systems

D : Super computers

Q.no 59. HTTP resources are located by

A : unique resource locator

B : unique resource identifier

C : none of the mentioned

D : uniform resource identifier

Q.no 60. _____ is not an IoT application layer protocol

A : XMPP

B : TCP

C : CoAP

D : MQTT

Q.no 1. What is the full form of SCADA?

A : a) Supervisory Control and Document Acquisition

B : b) Supervisory Control and Data Acquisition

C : c) Supervisory Column and Data Assessment

D : d) Supervisory Column and Data Assessment

Q.no 2. How many layers contain by WoT architecture ?

A : 3

B : 4

C : 5

D : 6

Q.no 3. HelloWeb is an example of _____

A : HTTP

B : MQTT

C : SMTP

D : CoAP

Q.no 4. Data stored in _____ domains doesn't require maintenance of schema.

A : SimpleDB

B : SQL Server

C : Oracle

D : RDS

Q.no 5. Which layer/layers of the OSI model does Web of Things (WoT) deals with ?

A : Application Layer

B : Network Layer

C : Transport Layer

D : Every layer

Q.no 6. Which of the following impose additional overhead on clients and offer faster transfer?

A : Block Storage

B : File Storage

C : File Server

D : All of the above

Q.no 7. Which protocol is an open standard

A : CoAP

B : MQTT

C : XMPP

D : HTTP

Q.no 8. What are advantages of Auto Scaling ?

A : Better Availability

B : Better Cost management

C : Fault Tolerance

D : All of the mentioned

Q.no 9. Which one is the Last step in IOT Platforms Design Methodology

A : Application Development

B : Purpose and Requirement

C : Domain Model Specification

D : Service Specification

Q.no 10. Rate monotonic scheduling algorithm is an example of _____category

A : Static

B : Dynamic

C : Hybrid

D : Mixed

Q.no 11. IoT Level_____ systems has a single node/device that performs sensing and/ or actuation, stores data, performs analysis and hosts the application.

A : Level 1

B : Level 2

C : Level 3

D : Level 4

Q.no 12. AMIs are operating system running on ____ virtualisation hypervisor

A : Yen

B : Xen

C : Ben

D : Multi-Factor Authentication

Q.no 13. Making the smaller and smaller things have the ability to connect and interact.

A : a) Micro Tech

B : b) Smart tech

C : c) Nano tech

D : d) RFID

Q.no 14. IoT has _____number of levels.

A : 4

B : 3

C : 5

D : 6

Q.no 15. What are the parameters that are default values?

A : a) Port_Name and Bits

B : b) Speed and Port_Names

C : c) Speed and Parity

D : d) Stop bit and Flow Control

Q.no 16. Xivety is available as _____

A : IaaS

B : SaaS

C : CaaS

D : Paas

Q.no 17. Which protocol is lightweight?

A : a) MQTT

B : b) HTTP

C : c) CoAP

D : d) SPI

Q.no 18. ____ is virtual server platform that allows users to create and run virtual machines on Amazon's server farm.

A : EC2

B : Azure

C : EC5

D : None of the above

Q.no 19. What do we use to connect TV to RPi?

A : a) Male HDMI

B : b) Female HDMI

C : c) Male HDMI and Adapter

D : d) Female HDMI and Adapter

Q.no 20. Amazon S3 stands for

A : Secure storage service

B : Session storage service

C : Simple storage service

D : Sample storage service

Q.no 21. In SCADA system the controlling is done by

A : Online control

B : Direct control

C : Supervisory control

D : Automatic control

Q.no 22. Amazon DynamoDB is

A : Relational database in cloud

B : No-SQL database service

C : Hierarchical Databases

D : Distributed Databases

Q.no 23. MQTT protocol is based on

A : Client-Server Architecture

B : Publish-Subscribe Architecture

C : Both of the above

D : Peer to peer Architecture

Q.no 24. MQTT stands for _____

A : MQ Telemetry Things

B : MQ Transport Telemetry

C : MQ Transport Things

D : MQ Telemetry Transport

Q.no 25. WAMP uses ____ messaging pattern

A : Function call

B : Procedure call

C : RPC

D : Web based

Q.no 26. WAMP follows ____ communication model

A : Push pull model

B : Publish subscribe model

C : Request Response model

D : Exclusive pair model

Q.no 27. Diagnostics service for Cars.

A : a) MIPS

B : b) AutoBot

C : c) IoT Assistant

D : d) IoT

Q.no 28. A network of physical objects or things embedded with electronics or softwares.

A : a) AI

B : b) ML

C : c) IOT

D : d) Internet

Q.no 29. DHT11 sensor is used to sens which of there wollowing parameters

A : a) Temperature

B : b) Pressure

C : c) Humidity

D : d) Both a and c

Q.no 30. Django forms and classes are created using _____

A : Template

B : view

C : Model

D : Django Services

Q.no 31. Which instruction set architecture is used in Raspberry Pi?

A : a) X86

B : b) MSP

C : c) AVR

D : d) ARM

Q.no 32. Django based on _____ architecture

A : MTV

B : REST

C : Web Socket

D : None of the above

Q.no 33. Advantage of MQTT over HTTP is

A : a) More secure

B : b) Lightweight

C : c) Polling is not required

D : d) a and b

Q.no 34. Which one of the following is the Zigbees operating mode?

A : Beacon

B : Base

C : WiFi

D : Zigbee

Q.no 35. Community IoT is

A : made available to general public or a large industry group.

B : shared by several organizations and supports a specific community that has shared concerns.

C : operated solely for an organization.

D : an integrated composition of two or more of the IoT systems (private, community, or public)

Q.no 36. Raspbian OS used in RaspberryPi is based on which of the following OS

A : a) RTOS

B : b) Windows

C : c) Debian Linux

D : d) None of there above

Q.no 37. Which of the following makes sure that data is not changed when it not supposed to be?

A : Integrity

B : Availability

C : Confidentiality

D : Accounting

Q.no 38. CoAP is specialized application

A : Internet applications

B : Device applications

C : Wireless applications

D : Wired applications

Q.no 39. Goal of SWE is creation of web-based sensor networks to make all sensors and repositories of

A : Sensor data discoverable and accessible

B : Sensor data applicable, controllable

C : Providing connectivity

D : Option 1 and 2

Q.no 40. which statement is True about CISC

A : Single Clock Cycle

B : Highly pipelined

C : Fixed Format Instruction

D : None of Above

Q.no 41. Communication model which involves brokers is called as _____

A : Request Response model

B : Publish Subscribe model

C : Push Pull model

D : Exclusive Pair model

Q.no 42. OSGi (Open services Gateway initiative framework) is used for

A : Module system and service platform , component deployment remotely

B : Standard internet protocol

C : Application life cycle management

D : Option 1 and 3

Q.no 43. XMPP is an example of _____ Layer in IoT

A : Transport Layer

B : Link Layer

C : Network Layer

D : Application Layer

Q.no 44. Domain Model Specification defines

A : Physical & Virtual Entity

B : Physical Entity

C : Virtual Entity

D : None of Above

Q.no 45. In which Step the system purpose, behavior and requirements (such as data collection requirements, data analysis requirements, system management requirements, data privacy and security requirements, user interface requirements, ...) are captured.

A : Application Development

B : Device & Component Integration

C : Operational View Specification

D : Purpose & Requirements Specification

Q.no 46. What are the essential tight constraint/s related to the design metrics of an embedded system

A : Ability to fit on a single chip

B : Low power consumption

C : Fast data processing for real-time operations

D : All of the above

Q.no 47. Which database engines are supported by Amazon RDS ?

A : PostgreSQL

B : MariaDB

C : Oracle

D : All of the above

Q.no 48. Django is _____ kind of framework

A : Web Security

B : Web Enhancement

C : Web Messaging

D : Web application

Q.no 49. WAMP follows _____ approach.

A : Connectionless

B : Connection-Oriented

C : OTA

D : None of the above

Q.no 50. Which one is not a type Of RTOS

A : 1)Hard RTOS

B : Soft RTOS

C : Firm RTOS

D : Embedded RTOS

Q.no 51. The technological foundation of cloud computing is distributed computing based on communication networks using.....

A : the internet of things

B : Google servers farms and Google Map

C : Amazon Web Service

D : cluster of workstations and networks of workstations

Q.no 52. CoAP provides which of the following requirements?

A : Multicast support and simplicity

B : Low overhead and multicast support

C : Simplicity and low overhead

D : Multicast support, Low over head, and simplicity

Q.no 53. Main components of USN(Ubiquitous Sensor Networks) are

I] USN applications and services platform

II] Network infrastructure

III]USN gateway

A : Only III

B : Option I and III

C : Option I not Option III

D : Option I, II and III

Q.no 54. WOT is

I] An applications' platform

II] Explores the layer top of connectivity with things

III] fast prototyping, data integration and interaction with objects

A : Only III

B : Option I and III

C : Option I not III

D : Option I, II and III

Q.no 55. Exclusive pair communication model can be best described as _____

A : Bidirectional , simplex

B : Birectional , full duplex

C : Unidirectional , simplex

D : Unidirectional , full duplex

Q.no 56. Private cloud, public cloud, community cloud and hybrid cloud are four models of cloud.

A : deployment

B : characteristic

C : solution

D : service

Q.no 57. MQTT protocol uses _____communication model.

A : Publish Subscribe model

B : Push Pull model

C : Exclusive Pair model

D : Request Response model

Q.no 58. APS Provides services necessary for.....

A : application Management and the ZigBee layers

B : application objects(endpoints) and the ZigBee device object (ZDO)

C : application Management and security management

D : Application Management

Q.no 59. Which of the following is the heart of a SCADA system?

A : PLC

B : HMI

C : Alarm task

D : I/O task

Q.no 60. _____ is an attack which forces an end user to execute unwanted actions on a web application in which he/she is currently authenticated.

A : Cross-site scoring scripting

B : Cross-site request forgery

C : Two-factor authentication

D : Cross-site scripting

Q.no 1. Information Model defines the ----- of all the information in the IoT system

A : Structure

B : service

C : Network

D : Device

Q.no 2. The sixth step in the IoT design methodology is to define the ----- for the system.

A : IoT level

B : IOT BASICS

C : IOT PAYLOAD

D : IOT CHECKSUM

Q.no 3. 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

Q.no 4. SOAP stands for-

A : Simple Object Access Protocol

B : Server Object Access Protocol

C : Simple Orientation Across Protocol

D : Server Orientation Across Protocol

Q.no 5. MQTT stands for _____

A : a) MQ Telemetry Things

B : b) MQ Transport Telemetry

C : c) MQ Transport Things

D : d) MQ Telemetry Transport

Q.no 6. Gateway software should be smart enough to handle _____

A : GPS

B : Message

C : Logging

D : Sensors

Q.no 7. The father of IoT.

A : a) Kevin Atun

B : b) Kevin Atthur

C : c) Kevin Ashton

D : d) Kevin Thomas

Q.no 8. MQTT stands for

A : MQ Telemetry Things

B : MQ Transport Telemetry

C : MQ Transport Things

D : MQ Telemetry Transport

Q.no 9. Unique ID for each device in skynet is _____

A : SSID

B : UID

C : UUID

D : ID

Q.no 10. SOA stands for

A : Solution Oriented Architecture

B : Sector Oriented Architecture

C : Source Oriented Architecture

D : Service Oriented Architecture

Q.no 11. IAD stands for _____

A : Intelligent Assist Device

B : Industrial Assist Device

C : International Assist Device

D : Informative Assist Device

Q.no 12. RFID stands for?

A : Random frequency identification

B : Radio frequency identification

C : Random frequency information

D : Radio frequency information

Q.no 13. How power supply is done to RPi?

A : a) USB connection

B : b) Internal battery

C : c) Charger

D : d) Adapter

Q.no 14. Which of the following is not the component of IoT Endpoint

A : Sensor

B : Gateway

C : Communication Module

D : MCU

Q.no 15. The entities, objects and concepts defined in the Domain Model Specification

A : Physical Entity

B : Virtual Entity

C : Device

D : All of above

Q.no 16. when you publish a message ____ is automatically created.

A : Client

B : Server

C : Process

D : Batch

Q.no 17. Which of the following is storage data interchange interface for stored data objects?

A : OCC

B : OCCI

C : OCMI

D : All of the above

Q.no 18. How many EC2 instance zones or regions exist ?

A : 1

B : 2

C : 3

D : 4

Q.no 19. Which of the following is not involved in working of IoT?

A : a) RFID

B : b) Sensor

C : c) Nano tech

D : d) Server

Q.no 20. Which is not a open-source SaaS (Software-as-a-Service) project?

A : Ubuntu

B : Microsoft Office 365

C : openSIS

D : Zimbra

Q.no 21. How many USB ports are present in Raspberry Pi 3?

A : a) 5

B : b) 2

C : c) 4

D : d) 3

Q.no 22. In 2008, which company launched the PaaS on-demand development platform & become a new pillar of cloud computing?

A : Salesforce

B : The force.com

C : Amazon

D : Cloudera

Q.no 23. _____ is not an enabling technology of IoT

A : Cloud Computing

B : Big data Analytics

C : Wireless sensor network

D : Operating System

Q.no 24. In Core of SODA which standard is based on XML encodings

A : DDL

B : XML

C : SOA

D : SODA

Q.no 25. Microphones usually have ____

A : Amplifier filter

B : Noise Filter

C : Round Filter

D : Frequency filter

Q.no 26. NFC stands for

A : Near Fast Communication

B : Near Field Communication

C : Near Field Consumer

D : Near Field Connection

Q.no 27. WiFi uses how much frequency ?

A : 2.2 GHz

B : 3 GHz

C : 3.5 GHz

D : 2.4 GHz

Q.no 28. Key elements of ETSI M2M architecture are

I] M2M device & M2M gateway

II] M2M area network & M2M communication network

III] M2M application server

A : Option I , II and III

B : Option I and II

C : Option II and III

D : Option III

Q.no 29. In Unified standardscombination of data format and exchange protocol is the foundation pillar of WWW

A : POPMAIL

B : HTML/HTTPS

C : HTML/HTTP

D : SMTP

Q.no 30. How many levels are present in a complex SCADA system?

A : a) 3 – levels

B : b) 5 – levels

C : c) 4 – levels

D : d) 6 – levels

Q.no 31. ZigBee is based on which of the following standard

A : a) IEEE 802.15.4

B : b) IEEE 802.5

C : c) IEEE 802.4.13

D : d) Both a and b

Q.no 32.Commonly available for connecting industrial electronic devices

A : BACNet

B : MODBus

C : LRWPAN

D : WPAN

Q.no 33. Which of the following tools are used for measuring I/O of system to estimate transaction costs ?

A : EBS

B : IOSTAT

C : ESW

D : All of the above

Q.no 34. ____ manages metadata of IoT services

A : Power

B : Controller

C : Scheduler

D : Package

Q.no 35. _____ are called as front end of IoT device

A : Sensors

B : Gateways

C : Processors

D : Applications

Q.no 36. WiFi is not present in which of the following models?

A : a) Raspberry Pi3

B : b) Raspberry Pi Zero WH

C : c) Raspberry Pi Zero W

D : d) Raspberry Pi Zero

Q.no 37. For Amazon EC2 instance, public and private keys are maintained by ?

A : AWS, client

B : client,AWS

C : only AWS

D : None of the above

Q.no 38. Applications using managed cloud storage are _____ as a Service Web service.

A : Infrastructure

B : Platform

C : Software

D : All of the above

Q.no 39. What is the speed of operation in Pi 3?

A : a) 900MHz

B : b) 1.2GHz

C : c) 1GHz

D : d) 500MHz

Q.no 40. Raspberry Pi Runs on customized Debian Linux called -----

A : UNIX

B : Raspbian OS

C : MAC

D : Windows

Q.no 41. Which of there following wireless technology provide Mesh Network architecture in easiest way

A : a) Bluetooth

B : b) ZigBee

C : c) Wi-Fi

D : d) None of the above

Q.no 42. Which of the following protocol is based on Publish – Subscribe architecture

A : a) HTTP

B : b) CoAP

C : c) HTTPS

D : d) MQTT

Q.no 43. Private IoT is

A : made available to general public or a large industry group.

B : shared by several organizations and supports a specific community that has shared concerns.

C : operated solely for an organization.

D : an integrated composition of two or more of the IoT systems (private, community, or public)

Q.no 44. Process Model Specification defines

A : USE Cases

B : Processes

C : Views

D : Network Topology

Q.no 45. The main importance of ARM micro-processors is providing operation with _____

A : Low cost and low power consumption

B : Higher degree of multi-tasking

C : Lower error or glitches

D : Efficient memory management

Q.no 46. DDL classifies devices into three categories

A : API, actuators and complex devices

B : Bundles, API and sensors

C : OSGI, API and actutators

D : Sensor, actutators and complex devices

Q.no 47. Process Specification in IOT design Methodology -----

A : Defines the IoT level
for the system

B : Shows the integration of the
devices and components.

**C : Defines the use cases of the IoT system are
formally described based on and derived from the purpose and
requirement specifications.**

D : None of above

Q.no 48. Standard port number for secure MQTT is _____

A : 1883

B : 8000

C : 8883

D : 8888

**Q.no 49. supports virtualization creates virtual versions of the resources
like servers, storage and OS.**

A : Grid Computing

B : Data Mining

C : Cloud Computing

D : Business Intelligence

**Q.no 50. Which of the following is a structured data store that supports indexing
and data queries to both EC2 and S3?**

A : CloudWatch

B : Amazon SimpleDB

C : Amazon Cloudfront

D : All of the mentioned

Q.no 51. For.....Secure, lightweight, and efficient key exchange mechanism is required

A : Data Availability

B : Trust Management

C : Data Confidentiality

D : Secure Storage

Q.no 52. HTTP resources are located by

A : unique resource locator

B : unique resource identifier

C : none of the mentioned

D : uniform resource identifier

Q.no 53. IoT level _____ systems are suitable for solutions where multiple nodes are required, the data involved is big and the analysis requirements are computationally intensive

A : Level1

B : Level 2

C : Level 3

D : Level 4

Q.no 54. Embedded Systems applications typically involve processing information as _____

A : Block

B : Logical Volumes

C : Distance

D : Signals

Q.no 55. _____ is a collection of wireless broadband standards (WiMax).

A : IEEE 802.3

B : IEEE 802.11

C : IEEE 802.16

D : IEEE 802.15.4

Q.no 56. ARM processors where basically designed for

A : Main frame systems

B : Distributed systems

C : Mobile systems

D : Super computers

Q.no 57. _____ is not an IoT application layer protocol

A : XMPP

B : TCP

C : CoAP

D : MQTT

Q.no 58. Which of the following specifies a set of media access control (MAC) and physical layer specifications for implementing WLANs?

A : IEEE 802.16

B : IEEE 802.3

C : IEEE 802.11

D : IEEE 802.15

Q.no 59. In threat modeling, what methodology used to perform risk analysis

A : DREAD

B : OWASP

C : STRIDE

D : DAR

Q.no 60. Connecting heterogeneous devices that makes the integration across systems and applications much simpler is achieved by

A : IoT

B : WoT

C : Both (a) and (b)

D : Neither (a) nor (b).

Q.no 1. Wi-Fi stands for?

A : a) Wireless fidelity

B : b) Wireless Flexibility

C : c) Wide Fidelity

D : d) WAN Flexibility

Q.no 2. SODA all stands for-

A : Service oriented data architecture

B : Service oriented device authentication

C : Service oriented device architecture

D : Service oriented device application

Q.no 3. ____ is virtual server platform that allows users to create and run virtual machines on Amazon's server farm.

A : EC2

B : Azure

C : EC5

D : None of the above

Q.no 4. Each Functional Group either provides functionalities for interacting with instances of concepts defined in the ----- or provides information related to these concepts.

A : System Model

B : Network Model

C : Domain Model

D : Basic Model

Q.no 5. Which of the following is billing and account management service ?

A : Amazon Elastic MapReduce

B : Amazon Mechanical Turk

C : Amazon DevPay

D : Multi-Factor Authentication

Q.no 6. What is SCADA?

A : a) Software

B : b) Process

C : c) System

D : d) Hardware

Q.no 7. Several instructions execution simultaneously in?

A : a) processing

B : b) parallel processing

C : c) serial processing

D : d) multitasking

Q.no 8. Information model adds more details to the Virtual Entities by defining their ----- and relations.

A : Virtual

B : System Model

C : Attributes

D : Domain Model

Q.no 9. _____ allows us to control electronic components

A : RESTful API

B : WebSocket API

C : HTTP

D : MQTT

Q.no 10. acronym of 6LoWPAN

A : a) IPv6 over Low power wireless personal area network

B : b) IPv4 over Low power wireless private area network

C : c) IPv6 over Low energy wireless personal area network

D : d) IPv4 over LongRange wireless private area network

Q.no 11. Which one is the First step in IOT Platforms Design Methodology

A : Process Model Specification

B : Purpose and Requirement

C : Domain Model Specification

D : Service Specification

Q.no 12. How many categories of storage devices broadly exist in cloud?

A : 1

B : 2

C : 3

D : 4

Q.no 13. How many types of voice communications in IoT environment :

A : 2

B : 3

C : 4

D : 5

Q.no 14. M2M protocol standards activities include..

A : M2MXML

B : SDN

C : NFV

D : SNMP

Q.no 15. In microcontrollers, UART is acronym of_____

A : a) Universal Applied Receiver/Transmitter

B : b) Universal Asynchronous Rectified Transmitter

C : c) Universal Asynchronous Receiver/Transmitter

D : d) United Asynchronous Receiver/Transmitter

Q.no 16. Sensor TEDS Standardization Efforts given by

A : IEEE 1459

B : IEEE 1451

C : IEEE 1441

D : IEEE 1414

Q.no 17. Amazon launched on a utility computing basis in 2006, which is now categorized as IaaS (Infrastructure as a service).

A : Amazon Prime

B : Amazon Web Series

C : AWS Academy

D : Amazon Web Service

Q.no 18. In M2M/ IoT protocols the payload and header is very _____

A : Small

B : Big

C : Same as Internet Protocol

D : Moderate

Q.no 19. DCS is a _____

A : a) Distributed Control System

B : b) Data Control System

C : c) Data Column System

D : d) Distributed Column System

Q.no 20. MQTT is _____ protocol.

A : a) Machine to Machine

B : b) Internet of Things

C : c) Machine to Machine and Internet of Things

D : d) Machine Things

Q.no 21. Which protocol is an open standard

A : CoAP

B : MQTT

C : XMPP

D : HTTP

Q.no 22. What kind of electronic document contains a public key?

A : PIN

B : Digital certificate

C : PAN

D : Biometrics

Q.no 23. Which of the following provide access for developers to charge Amazon's customer for their purchases ?

A : FWS

B : FAS

C : FPS

D : All of the mentioned

Q.no 24. HelloWeb is an example of _____

A : HTTP

B : MQTT

C : SMTP

D : CoAP

Q.no 25. The control in SCADA is _____

A : a) Online control

B : b) Direct control

C : c) Supervisory control

D : d) Automatic control

Q.no 26. Which of the following in LPWAN technologies

A : a) LoRa

B : b) GSM

C : c) CDMA

D : d) LTE

Q.no 27. Standardization is like a double-edged sword:But it may threaten when standards are accepted by the market

A : innovation and inhibit change

B : innovation

C : inhibit change

D : change

Q.no 28. The U.S. NIST is

A : National Institute of Security & Technology

B : National Institute of Standards & Technology

C : National Institute of Standards & Trends

D : National Institute of Standards & Terminologies

Q.no 29. What are the distributions supported by raspberry Pi?

A : a) Arch Linux

B : b) Debain

C : c) Fedora Remix

D : d) Arch Linux, Debain, and Fedora Remix

Q.no 30. Two Pillars of the Web are

I] The protocol

II] The software

III] Platform Middleware

IV] Business Intelligence

A : Option I and II

B : Option II and III

C : Option I not III

D : Option I not IV

Q.no 31. Amazon EC2 templates for instances are called ??

A : IASI

B : ASI

C : AMI

D : ASTI

Q.no 32. REST is ----- than SOAP

A : Slower

B : Faster

C : none of above

D : All of Above

Q.no 33. CoAP is specialized application

A : Internet applications

B : Device applications

C : Wireless applications

D : Wired applications

Q.no 34. Which step in in the IoT design methodology is the integration of the devices and components.

A : Application Development

B : Device & Component Integration

C : Operational View Specification

D : None of Above

Q.no 35. REST represents -----

A : REpresentational State Transfer

B : Realtime state

C : none of above

D : Repeat style Trade

Q.no 36. Which of the following is (are) example(s) of embedded system for data communication? USB Mass Storage device

A : Network router

B : Digital camera

C : Music player

D : All of these

Q.no 37. WAMP follows _____ approach.

A : Connectionless

B : Connection-Oriented

C : OTA

D : None of the above

Q.no 38. Which of the following is the vulnerabilities of IoT

A : MALC

B : DDOS

C : DOSD

D : SSOD

Q.no 39. _____ is the exampe of decentralised application layer protocol

A : XMPP

B : HTTP

C : CoAP

D : MQTT

Q.no 40. IEEE 802.15.4-Specifies physical layer and media access control for

A : WPANs

B : LR-WPANs

C : HR-PANs

D : PAN

Q.no 41. Application Development in IoT Design Methodology is ----- Step

A : First

B : Second

C : Third

D : Last

Q.no 42. What bit processor is used in Pi 3?

A : a) 64-bit

B : b) 32-bit

C : c) 128-bit

D : d) Both 64 and 32 bit

Q.no 43. which of protocol provide Full-Duplex communication

A : a) WebSocket

B : b) HTTP

C : c) MQTT

D : d) CoAP

Q.no 44. In SCADA and RFID the OPC stands for

A : Object Process Control

B : Object Linking and Embedding for Process Control

C : Object Controlling Process Control

D : Object Identifying Process Control

Q.no 45. Some communication devices in IoT

A : Sensors

B : Actuators

C : RFID Tags

D : All of Above

Q.no 46. What is SCADA?

A : Software

B : Process

C : System

D : Hardware

Q.no 47. In unauthorized access.....should be done before granting the access rights

A : Value-based verification

B : Identity-based verification

C : Name-based verification

D : Number-based verification

Q.no 48.Involves confidentiality and integrity of sensitive information stored in the system

A : Secure Storage

B : Secure Software Execution

C : Trust Management

D : Data Availability

Q.no 49. Which instruction set architecture is used in Raspberry Pi?

A : a) X86

B : b) MSP

C : c) AVR

D : d) ARM

Q.no 50. Which of the following is the heart of a SCADA system?

A : a) PLC

B : b) HMI

C : c) Alarm task

D : d) I/O task

Q.no 51. IaaS, PaaS and SaaS are three models of cloud.

A : deployment

B : characteristic

C : solution

D : service

Q.no 52. IEEE 802.15.4 is a technical standard which defines the operation of

A : LR-WPANs

B : USN

C : WSN

D : Zigbee

Q.no 53. _____ is an attack which forces an end user to execute unwanted actions on a web application in which he/she is currently authenticated.

A : Cross-site scripting

B : Cross-site request forgery

C : Two-factor authentication

D : Cross-site scripting

Q.no 54. REST follows _____ communication model

A : Request Response model

B : Publish Subscribe model

C : Push Pull model

D : Exclusive Pair model

Q.no 55. Which of the following describes a message-passing taxonomy for a component-based architecture that provides services to clients upon demand?

A : SOA

B : EBS

C : GEC

D : Option 2 and 3

Q.no 56. Private cloud, public cloud, community cloud and hybrid cloud are four models of cloud.

A : deployment

B : characteristic

C : solution

D : service

Q.no 57. MQTT protocol uses _____ communication model.

A : Publish Subscribe model

B : Push Pull model

C : Exclusive Pair model

D : Request Response model

Q.no 58. The processor must accept and process the frame before the next frame is called as _____

A : Hard Real time systems

B : Real time constraints

C : Real data constraints

D : Soft real constraints

Q.no 59. The technological foundation of cloud computing is distributed computing based on communication networks using.....

A : the internet of things

B : Google servers farms and Google Map

C : Amazon Web Service

D : cluster of workstations and networks of workstations

Q.no 60. Which if the following is Light waight protocol used of IoT Applications

A : a) MQTT

B : b) HTTP

C : c) WebSocket

D : d) All of the above

Q.no 1. Amazon S3 stands for

A : Secure storage service

B : Session storage service

C : Simple storage service

D : Sample storage service

Q.no 2. Django interaction with application takes place with ____

A : Template

B : model

C : view

D : Service

Q.no 3. Websocket is the example of which communication model

A : Request – Response

B : Publish – Subscribe

C : Push-Pull

D : Exclusive Pair

Q.no 4. Which is true about model view controller architecture of Django

A : It represents by a database

B : It is user interface that you see in browser

C : It connects view and model together

D : None of the above

Q.no 5. MQTT protocol is based on

A : Client-Server Architecture

B : Publish-Subscribe Architecture

C : Both of the above

D : Peer to peer Architecture

Q.no 6. Services in Operational View Specifications are

A : Mode service

B : State service

C : Controller Service

D : All of above

Q.no 7. Which Django component concerns about metadata ?

A : Model

B : View

C : Template

D : None of the above

Q.no 8. Which of the following instance is used by default in AMI?

A : High-Memory Quadruple Extra Large Instance

B : Small Instance

C : Micro Instance

D : High-CPU Extra Large Instance

Q.no 9. _____ are integrated Antenna for long range communication

A : BC241

B : BC154

C : BC144

D : BC118

Q.no 10. The channel between two communication nodes is _____

A : Session

B : Event

C : Transport

D : None of the above

Q.no 11. Data stored in _____ domains doesn't require maintenance of schema.

A : SimpleDB

B : SQL Server

C : Oracle

D : RDS

Q.no 12. SOA stands for

A : Solution Oriented Architecture

B : Sector Oriented Architecture

C : Source Oriented Architecture

D : Service Oriented Architecture

Q.no 13. To define the information model, we first list the ----- Entities defined

A : Dynamic

B : Virtual

C : System

D : Basic

Q.no 14. In 1999, Marc Benioff founded a company, which pioneered the multi-tenant SaaS model, a new application-delivering mechanism. Which company is that?

A : Salesforce

B : Oracle Siebel

C : SAP CRM

D : Infusionsoft

Q.no 15. Information Model defines the ----- of all the information in the IoT system

A : Structure

B : service

C : Network

D : Device

Q.no 16. The Functional View (FV) defines the functions of the IoT systems grouped into various -----.

A : Network Groups (NGs)

B : Model Groups (MGs)

C : Domain Groups (DGs)

D : Functional Groups (FGs)

Q.no 17. Which layer/layers of the OSI model does Web of Things (WoT) deals with ?

A : Application Layer

B : Network Layer

C : Transport Layer

D : Every layer

Q.no 18. Xivety is available as _____

A : IaaS

B : SaaS

C : CaaS

D : Paas

Q.no 19. Which amongst the following is fastest Amazon Web Service ?

A : Amazon RDS

B : Amazon EC2

C : Amazon S3

D : Amazon DynamoDB

Q.no 20. In SCADA system the controlling is done by

A : Online control

B : Direct control

C : Supervisory control

D : Automatic control

Q.no 21. Amazon Web Services supports which type II Audits ?

A : SAS20

B : SAS70

C : SAS702

D : None of the above

Q.no 22. Operational View Specification is

A : Integration of the devices

B : Integration of the Components

C : Integration of Applications

D : None of above

Q.no 23. What is the default user in Debain on Raspberry Pi?

A : a) Default

B : b) User

C : c) Pi

D : d) Root

Q.no 24. Two of the most common protocols for SCADA _____

A : DNP3

B : T101

C : Both A & B

D : IPv4

Q.no 25. The process of converting data into a format that can not be read by another user

A : Registering

B : Locking

C : Encryption

D : Keying

Q.no 26. In SCADA Standardization Efforts:The standard specifies the communication ofbetween control devices from different manufacturers

A : plant data

B : non real-time plant data

C : real- time plant data

D : CBR Data

Q.no 27. Raspbian OS used in RaspberryPi is based on which of the following OS

A : a) RTOS

B : b) Windows

C : c) Debian Linux

D : d) None of there above

Q.no 28. XMPP is an example of _____Layer in IoT

A : Transport Layer

B : Link Layer

C : Network Layer

D : Application Layer

Q.no 29. How many levels are present in a complex SCADA system?

A : a) 3 – levels

B : b) 5 – levels

C : c) 4 – levels

D : d) 6 – levels

Q.no 30. Key elements of ETSI M2M architecture are

I] M2M device & M2M gateway

II] M2M area network & M2M communication network

III] M2M application server

A : Option I , II and III

B : Option I and II

C : Option II and III

D : Option III

Q.no 31. Which one is not True regarding WebSocketAPIs

A : bi-directional

B : Full duplex

C : Not Secure

D : Exclusive Pair Communication

Q.no 32. Amazon EC2 data is stored using _____

A : EBS

B : ECS

C : Cloud

D : Database

Q.no 33. Cloud computing is the fusion of

A : EAI and grid.

B : SaaS and EAI.

C : grid and SOA.

D : SOAP and SaaS.

Q.no 34. which statement is True about RISC

A : Single Clock Cycle

B : Highly pipelined

C : Fixed Format Instruction

D : All of Above

Q.no 35. Provides mechanisms for computerized building automation devices to exchange information

A : 802.15.4

B : SCADA

C : RFID

D : BACNet

Q.no 36. Private IoT, Public IoT, Community IoT and Hybrid IoT are four models of IoT.

A : deployment

B : characteristic

C : solution

D : service

Q.no 37. IEEE 802.15.4 framework conceives a 10m communications range with a transfer rate of

A : 250 Kbits/s

B : 520 Kbits/s

C : 205 Kbits/s

D : 250 bits/s

Q.no 38. A network of physical objects or things embedded with electronics or softwares.

A : a) AI

B : b) ML

C : c) IOT

D : d) Internet

Q.no 39. The instruction set of RISC processor is

A : a) Simple and lesser in number

B : b)Complex and lesser in number

C : c)Simple and larger in number

D : d)Complex and larger in number

Q.no 40. Which of the following makes sure that data is not changed when it not supposed to be?

A : Integrity

B : Availability

C : Confidentiality

D : Accounting

Q.no 41. The has features such as offline support, canvas drawing based on low footprint SVG graphics, GeolocationAPI, video and audio streaming support with flash, WebStorage, CSS3 Selectors, 2D animation for mobile cloud applications.

A : HTML5

B : HTML4

C : HTML3

D : HTML2

Q.no 42. ZigBee is based on which of the following standard

A : a) IEEE 802.15.4

B : b) IEEE 802.5

C : c) IEEE 802.4.13

D : d) Both a and b

Q.no 43. OSGi (Open services Gateway initiative framework) is used for

A : Module system and service platform , component deployment remotely

B : Standard internet protocol

C : Application life cycle management

D : Option 1 and 3

Q.no 44. Which of the Following are ZigBee based application

A : FM Radio

B : low-power High-bandwidth

C : Balestic Missile

D : Medical Device Data Collection

Q.no 45. SOAP is a protocol through which two computer communicates by sharing ----- document

A : XML

B : HTML

C : JAVA

D : API

Q.no 46. Which of the following is not a characteristic of a ZigBee network?

A : Low power consumption

B : Easy installation.

C : High data rates.

D : Unlicensed radio bands.

Q.no 47. Which one is IoT Communication Models

A : Request-Response

B : Publish-Subscribe

C : All of Above

D : None Of Above

Q.no 48. For constrained nodes and constrained networks in Internet of Things which protocol is used.

A : IPv4

B : IPv6

C : CoAP

D : MQTT

Q.no 49. Which API are supported by SkyNet ?

A : HTTP

B : REST

C : Web Socket

D : All of the above

Q.no 50. In which Step the system purpose, behavior and requirements (such as data collection requirements, data analysis requirements, system management requirements, data privacy and security requirements, user interface requirements, ...) are captured.

A : Application Development

B : Device & Component Integration

C : Operational View Specification

D : Purpose & Requirements Specification

Q.no 51. Find the correct statement with respect to SOA

I) It describes a standard method for requesting services from distributed components and managing the results

II) SOA provides the translation and management layer in an architecture that removes the barrier for a client obtaining desired services

III) With SOA, clients and components can be written in different languages and can use multiple messaging protocols

A : Option I and II

B : Option I,II and III

C : Only Option I

D : Only Option III

Q.no 52. Connecting heterogeneous devices that makes the integration across systems and applications much simpler is achieved by

A : IoT

B : WoT

C : Both (a) and (b)

D : Neither (a) nor (b).

Q.no 53. In threat modeling, what methodology used to perform risk analysis

A : DREAD

B : OWASP

C : STRIDE

D : DAR

Q.no 54. Which system is a batch processing extension of the scatter-barrier-reduce primitives of MPI/PVM?

A : Google Map

B : MapReduce

C : MPI and OpenMP

D : Hadoop

Q.no 55. WOT is

I] An applications' platform

II] Explores the layer top of connectivity with things

III] fast prototyping, data integration and interaction with objects

A : Only III

B : Option I and III

C : Option I not III

D : Option I, II and III

Q.no 56. Zigbee architectures consist of which the following section

A : Physical

B : ZigBee device

C : Transport

D : IEEE 802.15.4

Q.no 57. APS Provides services necessary for.....

A : application Management and the ZigBee layers

B : application objects(endpoints) and the ZigBee device object (ZDO)

C : application Management and security management

D : Application Management

Q.no 58. HTTP resources are located by

A : unique resource locator

B : unique resource identifier

C : none of the mentioned

D : uniform resource identifier

Q.no 59. _____ is a collection of wireless broadband standards (WiMax).

A : IEEE 802.3

B : IEEE 802.11

C : IEEE 802.16

D : IEEE 802.15.4

Q.no 60. For.....Secure, lightweight, and efficient key exchange mechanism is required

A : Data Availability

B : Trust Management

C : Data Confidentiality

D : Secure Storage

Q.no 1. The entities, objects and concepts defined in the Domain Model Specification

A : Physical Entity

B : Virtual Entity

C : Device

D : All of above

Q.no 2. The control in SCADA is _____

A : a) Online control

B : b) Direct control

C : c) Supervisory control

D : d) Automatic control

Q.no 3. Domain Model Specification is the ----- Step in IOT platforms Design Methodology

A : First

B : Second

C : Third

D : Four

Q.no 4. The object in IoT will be empowered by _____

A : Network

B : Cloud

C : Devices

D : Connectivity

Q.no 5. This Process of identifying any individual is called as.

A : Auditing

B : Authorisation

C : Authentication

D : Accounting

Q.no 6. MQTT stands for _____

A : a) MQ Telemetry Things

B : b) MQ Transport Telemetry

C : c) MQ Transport Things

D : d) MQ Telemetry Transport

Q.no 7. WAMP stands for _____

A : Web Analysed Messaging Protocol

B : Web Authorised Messaging Prototcol

C : Web Application Messaging Protocol

D : Web Appliance Messaging Protocol

Q.no 8. Which one is the First step in IOT Platforms Design Methodology

A : Process Model Specification

B : Purpose and Requirement

C : Domain Model Specification

D : Service Specification

Q.no 9. Amazon EC2 configuration determined by ?

A : CPU

B : memory & storage

C : networking capability

D : All of the mentioned

Q.no 10. Which of the following impose additional overhead on clients and offer faster transfer?

A : Block Storage

B : File Storage

C : File Server

D : All of the above

Q.no 11. IAD stands for _____

A : Intelligent Assist Device

B : Industrial Assist Device

C : International Assist Device

D : Informative Assist Device

Q.no 12. Amazon launched on a utility computing basis in 2006, which is now categorized as IaaS (Infrastructure as a service).

A : Amazon Prime

B : Amazon Web Series

C : AWS Academy

D : Amazon Web Service

Q.no 13. Microphones usually have ____

A : Amplifier filter

B : Noise Filter

C : Round Filter

D : Frequency filter

Q.no 14. How many virtual servers can be launch with Amazon EC2 ?

A : 1

B : 2

C : Infinite

D : 0

Q.no 15. What is SCADA?

A : a) Software

B : b) Process

C : c) System

D : d) Hardware

Q.no 16. Which statement is wrong regarding Service Specifications

A : service inputs/output

B : service endpoints

C : Network Security

D : Service Preconditions

Q.no 17. Which of the following is not involved in working of IoT?

A : RFID

B : Sensor

C : Nano tech

D : Server

Q.no 18. How many types of voice communications in IoT environment :

A : 2

B : 3

C : 4

D : 5

Q.no 19. BRIDGE stands for

A : Building Radio-Frequency Identifier

B : Building Radio-Frequency Identification

C : Building Radio-Frequency Identity

D : Building Radio-Frequent Identification

Q.no 20. MQTT is _____ protocol.

A : a) Machine to Machine

B : b) Internet of Things

C : c) Machine to Machine and Internet of Things

D : d) Machine Things

Q.no 21. HelloWeb is an example of _____

A : HTTP

B : MQTT

C : SMTP

D : CoAP

Q.no 22. Process Specification is the ----- Step in IOT platforms Design Methodology

A : First

B : Second

C : Third

D : Four

Q.no 23. Operational View Specification consist of

A : service hosting options

B : storage options

C : device options

D : All of above

Q.no 24. RFID stands for?

A : Random frequency identification

B : Radio frequency identification

C : Random frequency information

D : Radio frequency information

Q.no 25. In 2008, which company launched the PaaS on-demand development platform & become a new pillar of cloud computing?

A : Salesforce

B : The force.com

C : Amazon

D : Cloudera

Q.no 26. In SCADA and RFID the OPC stands for

A : Object Process Control

B : Object Linking and Embedding for Process Control

C : Object Controlling Process Control

D : Object Identifying Process Control

Q.no 27. What does WoT do ?

(I) Re-invent completely new standards.

(II) Reuses existing and well known standards.

A : ONLY (I)

B : ONLY (II)

C : Both (I) and (II)

D : Neither (I) nor (II)

Q.no 28. WAMP is

A : Unidirectional

B : Bidirectional

C : both

D : None of the above

Q.no 29. Django forms and classes are created using _____

A : Template

B : view

C : Model

D : Django Services

Q.no 30. Middleware include all enterprise middleware, B2B, EAI, multi-tenant App servers, etc.

A : SaaS

B : IaaS

C : FaaS

D : PaaS

Q.no 31. WiFi is not present in which of the following models?

A : a) Raspberry Pi3

B : b) Raspberry Pi Zero WH

C : c) Raspberry Pi Zero W

D : d) Raspberry Pi Zero

Q.no 32. Process Specification in IOT design Methodology -----

A : Defines the IoT level
for the system

**B : Shows the integration of the
devices and components.**

C : Defines the use cases of the IoT system are
formally described based on and derived from the purpose and
requirement specifications.

D : None of above

**Q.no 33. The main importance of ARM micro-processors is providing operation
with _____**

A : Low cost and low power consumption

B : Higher degree of multi-tasking

C : Lower error or glitches

D : Efficient memory management

Q.no 34. Which of the following layers are defined by the ZigBee stack?

A : Transport layer

B : Physical layer.

C : Application Support sub-layer.

D : Medium Access layer

Q.no 35. which of protocol provide Full-Duplex communication

A : a) WebSocket

B : b) HTTP

C : c) MQTT

D : d) CoAP

Q.no 36. What are the distributions supported by raspberry Pi?

A : a) Arch Linux

B : b) Debain

C : c) Fedora Remix

D : d) Arch Linux, Debain, and Fedora Remix

Q.no 37. ____ manages metadata of IoT services

A : Power

B : Controller

C : Scheduler

D : Package

Q.no 38. Domain Model Specification defines

A : Physical & Virtual Entity

B : Physical Entity

C : Virtual Entity

D : None of Above

Q.no 39. Which of the following protocol is based on Publish – Subscribe architecture

A : a) HTTP

B : b) CoAP

C : c) HTTPS

D : d) MQTT

Q.no 40. Standardization is like a double-edged sword:But it may threaten when standards are accepted by the market

A : innovation and inhibit change

B : innovation

C : inhibit change

D : change

Q.no 41. What should be frequency of soil for hand gesturing functions ?

A : 50 Hz

B : 60 Hz

C : 35 Hz

D : 40 Hz

Q.no 42. CoAP is specialized application

A : Internet applications

B : Device applications

C : Wireless applications

D : Wired applications

Q.no 43. Hybrid IoT is

A : made available to general public or a large industry group.

B : shared by several organizations and supports a specific community that has shared concerns.

C : operated solely for an organization.

D : an integrated composition of two or more of the IoT systems (private, community, or public)

Q.no 44. What bit processor is used in Pi 3?

A : a) 64-bit

B : b) 32-bit

C : c) 128-bit

D : d) Both 64 and 32 bit

Q.no 45. _____ is used to describe a perceived, quickly growing set of web based applications.

A : Web 1.0

B : Web 2.0

C : Web 3.5

D : Web 4.0

Q.no 46. Communication model which involves brokers is called as _____

A : Request Response model

B : Publish Subscribe model

C : Push Pull model

D : Exclusive Pair model

Q.no 47. NFC stands for

A : Near Fast Communication

B : Near Field Communication

C : Near Field Consumer

D : Near Field Connection

Q.no 48. KNX protocol Standardized , communications protocol for automation

A : ISO-based network

B : OSI-based network

C : ISI-OSI-based transport

D : ISO-based transport

Q.no 49. Diagnostics service for Cars.

A : a) MIPS

B : b) AutoBot

C : c) IoT Assistant

D : d) IoT

Q.no 50. What is the long form of OMTP, which was a forum crated by mobile network operators to discuss standards with manufacturers of cell phones and other mobile devices.

A : Open Mobile Transport Protocol

B : Open Middleware Terminal Platform

C : Open Mobile Terminal Platform

D : Open Middleware Transport Protocol

Q.no 51. The cloud middleware consists of two kinds of middleware.....

A : IaaS and PaaS

B : IaaS and SaaS

C : SaaS and PaaS

D : SaaS and BaaS

Q.no 52. which of the following are IoT Plaftorms

A : a) AWS IoT

B : b) Microsoft Azure IoT

C : c) PTC ThingWorx

D : d) All of the above

Q.no 53. _____is not an IoT application layer protocol

A : XMPP

B : TCP

C : CoAP

D : MQTT

Q.no 54. A digital multi meter is an example of an embedded system for

A : Data communication

B : Monitoring

C : Control

D : All of these

Q.no 55. From following which one is not fit for IOT Level

A : IOT LEVEL 1

B : IOT LEVEL 2

C : IOT LEVEL 3

D : IOT LEVEL 11

Q.no 56. Which if the following is Light waight protocol used of IoT Applications

A : a) MQTT

B : b) HTTP

C : c) WebSocket

D : d) All of the above

Q.no 57. Frequency band used by 802.11 ah standard is:

A : 60 GHz

B : 2.4 GHz

C : Sub 1 GHz

D : 5 GHz

Q.no 58. IoT level _____ systems are suitable for solutions where the data involved is big and the analysis requirements are computationally intensive.

A : Level 1

B : Level 2

C : Level 3

D : Level 4

Q.no 59. Which of the following is the heart of a SCADA system?

A : PLC

B : HMI

C : Alarm task

D : I/O task

Q.no 60. MQTT protocol uses _____communication model.

A : Publish Subscribe model

B : Push Pull model

C : Exclusive Pair model

D : Request Response model

Q.no 1. ANSI/ISA-95 standard used for

A : Reduce cost, errors and risk with production process

B : Reduce errors and risk with production process

C : Reduce cost and risk with production process

D : Reduce cost,and errors and with production process

Q.no 2. How many USB ports are present in Raspberry Pi 3?

A : a) 5

B : b) 2

C : c) 4

D : d) 3

Q.no 3. ____ is virtual server platform that allows users to create and run virtual machines on Amazon's server farm.

A : EC2

B : Azure

C : EC5

D : None of the above

Q.no 4. To define the information model, we first list the ----- Entities defined

A : Dynamic

B : Virtual

C : System

D : Basic

Q.no 5. Which company played a key role in the development of cloud computing?

A : Microsoft

B : Google

C : Amazon

D : Cloudera

Q.no 6. SOAP stands for-

A : Simple Object Access Protocol

B : Server Object Access Protocol

C : Simple Orientation Across Protocol

D : Server Orientation Across Protocol

Q.no 7. WAMP uses _____ messaging pattern

A : Function call

B : Procedure call

C : RPC

D : Web based

Q.no 8. Which protocol is an open standard

A : CoAP

B : MQTT

C : XMPP

D : HTTP

Q.no 9. Which of the following is not involved in working of IoT?

A : a) RFID

B : b) Sensor

C : c) Nano tech

D : d) Server

Q.no 10. Which layer/layers of the OSI model does Web of Things (WoT) deals with ?

A : Application Layer

B : Network Layer

C : Transport Layer

D : Every layer

Q.no 11. Two of the most common protocols for SCADA _____

A : DNP3

B : T101

C : Both A & B

D : IPv4

Q.no 12. 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

Q.no 13. Amazon S3 is

A : data storage infrastructure

B : compute capacity in the cloud

C : relational database in cloud

D : None of the above

Q.no 14. Which layer is responsible for WAMP communication ?

A : Application

B : Physical

C : Transport

D : Session

Q.no 15. _____ is an example of Hard Real time Systems

A : Failure in radar functioning

B : Printer

C : Watch

D : Washing Machine

Q.no 16. IoT Level_____ systems has a single node/device that performs sensing and/ or actuation, stores data, performs analysis and hosts the application.

A : Level 1

B : Level 2

C : Level 3

D : Level 4

Q.no 17. Things in IoT refers to_____

A : General device

B : Information

C : IoT devices

D : Object

Q.no 18. IoT has _____ number of levels.

A : 4

B : 3

C : 5

D : 6

Q.no 19. Standard ports of MQTT are

A : I2C

B : SSL

C : USART

D : TCP/IP

Q.no 20. M2M protocol standards activities include..

A : M2MXML

B : SDN

C : NFV

D : SNMP

Q.no 21. Which protocol is lightweight?

A : a) MQTT

B : b) HTTP

C : c) CoAP

D : d) SPI

Q.no 22. In Core of SODA which standard is based on XML encodings

A : DDL

B : XML

C : SOA

D : SODA

Q.no 23. SOA stands for

A : Solution Oriented Architecture

B : Sector Oriented Architecture

C : Source Oriented Architecture

D : Service Oriented Architecture

Q.no 24. IPv4 is _____ bit address

A : a) 24

B : b) 32

C : c) 64

D : d) 128

Q.no 25. How many can you create in AWS by default

A : 1

B : 10

C : 100

D : 110

Q.no 26. Which of the following Hardware can be alone used as IoT Gateway

A : a) RaspberriPI

B : b) NodeMCU ESP8266

C : c) Arduino UNO

D : d) Both a and b

Q.no 27. Community IoT is

A : made available to general public or a large industry group.

B : shared by several organizations and supports a specific community that has shared concerns.

C : operated solely for an organization.

D : an integrated composition of two or more of the IoT systems (private, community, or public)

Q.no 28. Public IoT is

A : made available to general public or a large industry group.

B : shared by several organizations and supports a specific community that has shared concerns.

C : operated solely for an organization.

D : an integrated composition of two or more of the IoT systems (private, community, or public)

Q.no 29. List out the tools or API for developing or testing web api?

A : Spring REST web service using MVC

B : Jersey API

C : Axis

D : All of above

Q.no 30. WiFi uses how much frequency ?

A : 2.2 GHz

B : 3 GHz

C : 3.5 GHz

D : 2.4 GHz

Q.no 31. The instruction set of RISC processor is

A : a) Simple and lesser in number

B : b)Complex and lesser in number

C : c)Simple and larger in number

D : d)Complex and larger in number

Q.no 32. _____ is the instruction set used by ARM7

A : 16-bit instruction set

B : 32-bit instruction set

C : 8-bit instruction set

D : 64 Bit instruction set

Q.no 33. The U.S. NIST is

A : National Institute of Security & Technology

B : National Institute of Standards & Technology

C : National Institute of Standards & Trends

D : National Institute of Standards & Terminologies

Q.no 34. Amazon EC2 data is stored using _____

A : EBS

B : ECS

C : Cloud

D : Database

Q.no 35. Range of Zigbee is low-cost and low-powered mesh network _____

A : 10-100 meters

B : 100-1000 meters

C : 10-100 cm

D : 100-1000 cm

Q.no 36. A smart object is defined by IPSO

A : Internet Protocol Smart Object

B : Internet Protocol Sensor Object

C : International Protocol Smart Object

D : International Protocol Sensor Object

Q.no 37. SOAP is a protocol through which two computer communicates by sharing ----- document

A : XML

B : HTML

C : JAVA

D : API

Q.no 38. Amazon EC2 templates for instances are called ??

A : IASI

B : ASI

C : AMI

D : ASTI

Q.no 39. Gateway provides the connection between ____ and ____

A : Cloud and controller

B : Network and Cloud

C : Network and Controller

D : Controller and Device

Q.no 40. The approach/s to build WoT is through _____

(I) RESTful principles.

(II) REST APIs.

A : Only (I)

B : Only (II)

C : Both (I) and (II)

D : Neither (I) nor (II)

Q.no 41. Middleware include all Grid middleware such as MSV Cluster middleware, SSV and schedulers, etc.

A : SaaS

B : IaaS

C : FaaS

D : PaaS

Q.no 42. which statement is True about RISC

A : Single Clock Cycle

B : Highly pipelined

C : Fixed Format Instruction

D : All of Above

Q.no 43. This protocol is lightweight in nature and is ideal for connecting small devices to constrained networks

A : MQTT

B : CoAP

C : IPv4

D : IPv6

Q.no 44. Private IoT is

A : made available to general public or a large industry group.

B : shared by several organizations and supports a specific community that has shared concerns.

C : operated solely for an organization.

D : an integrated composition of two or more of the IoT systems (private, community, or public)

Q.no 45. _____ are called as front end of IoT device

A : Sensors

B : Gateways

C : Processors

D : Applications

Q.no 46. Private IoT, Public IoT, Community IoT and Hybrid IoT are four models of IoT.

A : deployment

B : characteristic

C : solution

D : service

Q.no 47. IEEE 802.15.4-Specifies physical layer and media access control for

A : WPANs

B : LR-WPANs

C : HR-PANs

D : PAN

Q.no 48. For Amazon EC2 instance, public and private keys are maintained by ?

A : AWS, client

B : client,AWS

C : only AWS

D : None of the above

Q.no 49. Which of the following is not a characteristic of a ZigBee network?

A : Low power consumption

B : Easy installation.

C : High data rates.

D : Unlicensed radio bands.

Q.no 50. Which of the Following are ZigBee based application

A : FM Radio

B : low-power High-bandwidth

C : Balestic Missile

D : Medical Device Data Collection

Q.no 51. Which system is a batch processing extension of the scatter-barrier-reduce primitives of MPI/PVM?

A : Google Map

B : MapReduce

C : MPI and OpenMP

D : Hadoop

Q.no 52. WOT is

I] An applications' platform

II] Explores the layer top of connectivity with things

III] fast prototyping, data integration and interaction with objects

A : Only III

B : Option I and III

C : Option I not III

D : Option I, II and III

Q.no 53. Embedded Systems applications typically involve processing information as _____

A : Block

B : Logical Volumes

C : Distance

D : Signals

Q.no 54. In threat modeling, what methodology used to perform risk analysis

A : DREAD

B : OWASP

C : STRIDE

D : DAR

Q.no 55. is the direct technological ancestor of cloud computing, which also has roots in the COW technology.

A : Pervasive computing

B : Mobile computing

C : Grid computing

D : Quantum Computing

Q.no 56. _____ is an attack which forces an end user to execute unwanted actions on a web application in which he/she is currently authenticated.

A : Cross-site scoring scripting

B : Cross-site request forgery

C : Two-factor authentication

D : Cross-site scripting

Q.no 57. Which of the following specifies a set of media access control (MAC) and physical layer specifications for implementing WLANs?

A : IEEE 802.16

B : IEEE 802.3

C : IEEE 802.11

D : IEEE 802.15

Q.no 58. Exclusive pair communication model can be best described as _____

A : Bidirectional , simplex

B : Birectional , full duplex

C : Unidirectional , simplex

D : Unidirectional , full duplex

Q.no 59. IoT level _____ systems are suitable for solutions where multiple nodes are required, the data involved is big and the analysis requirements are computationally intensive

A : Level1

B : Level 2

C : Level 3

D : Level 4

Q.no 60. The processor must accept and process the frame before the next frame is called as _____

A : Hard Real time systems

B : Real time constraints

C : Real data constraints

D : Soft real constraints

Answer for Question No 1. is c

Answer for Question No 2. is c

Answer for Question No 3. is b

Answer for Question No 4. is a

Answer for Question No 5. is a

Answer for Question No 6. is d

Answer for Question No 7. is c

Answer for Question No 8. is c

Answer for Question No 9. is b

Answer for Question No 10. is c

Answer for Question No 11. is b

Answer for Question No 12. is a

Answer for Question No 13. is d

Answer for Question No 14. is b

Answer for Question No 15. is b

Answer for Question No 16. is a

Answer for Question No 17. is b

Answer for Question No 18. is c

Answer for Question No 19. is c

Answer for Question No 20. is a

Answer for Question No 21. is b

Answer for Question No 22. is c

Answer for Question No 23. is c

Answer for Question No 24. is b

Answer for Question No 25. is b

Answer for Question No 26. is d

Answer for Question No 27. is a

Answer for Question No 28. is c

Answer for Question No 29. is a

Answer for Question No 30. is a

Answer for Question No 31. is a

Answer for Question No 32. is b

Answer for Question No 33. is d

Answer for Question No 34. is b

Answer for Question No 35. is d

Answer for Question No 36. is a

Answer for Question No 37. is d

Answer for Question No 38. is d

Answer for Question No 39. is b

Answer for Question No 40. is a

Answer for Question No 41. is d

Answer for Question No 42. is c

Answer for Question No 43. is a

Answer for Question No 44. is a

Answer for Question No 45. is a

Answer for Question No 46. is c

Answer for Question No 47. is c

Answer for Question No 48. is d

Answer for Question No 49. is d

Answer for Question No 50. is d

Answer for Question No 51. is c

Answer for Question No 52. is d

Answer for Question No 53. is d

Answer for Question No 54. is d

Answer for Question No 55. is a

Answer for Question No 56. is a

Answer for Question No 57. is a

Answer for Question No 58. is c

Answer for Question No 59. is d

Answer for Question No 60. is c

Answer for Question No 1. is d

Answer for Question No 2. is b

Answer for Question No 3. is c

Answer for Question No 4. is c

Answer for Question No 5. is a

Answer for Question No 6. is a

Answer for Question No 7. is b

Answer for Question No 8. is a

Answer for Question No 9. is c

Answer for Question No 10. is d

Answer for Question No 11. is a

Answer for Question No 12. is d

Answer for Question No 13. is a

Answer for Question No 14. is a

Answer for Question No 15. is c

Answer for Question No 16. is d

Answer for Question No 17. is b

Answer for Question No 18. is c

Answer for Question No 19. is b

Answer for Question No 20. is d

Answer for Question No 21. is d

Answer for Question No 22. is d

Answer for Question No 23. is b

Answer for Question No 24. is a

Answer for Question No 25. is c

Answer for Question No 26. is a

Answer for Question No 27. is d

Answer for Question No 28. is c

Answer for Question No 29. is b

Answer for Question No 30. is c

Answer for Question No 31. is d

Answer for Question No 32. is c

Answer for Question No 33. is d

Answer for Question No 34. is a

Answer for Question No 35. is c

Answer for Question No 36. is b

Answer for Question No 37. is c

Answer for Question No 38. is b

Answer for Question No 39. is a

Answer for Question No 40. is d

Answer for Question No 41. is b

Answer for Question No 42. is b

Answer for Question No 43. is d

Answer for Question No 44. is a

Answer for Question No 45. is a

Answer for Question No 46. is a

Answer for Question No 47. is c

Answer for Question No 48. is b

Answer for Question No 49. is b

Answer for Question No 50. is b

Answer for Question No 51. is d

Answer for Question No 52. is c

Answer for Question No 53. is d

Answer for Question No 54. is b

Answer for Question No 55. is a

Answer for Question No 56. is d

Answer for Question No 57. is d

Answer for Question No 58. is a

Answer for Question No 59. is c

Answer for Question No 60. is d

Answer for Question No 1. is c

Answer for Question No 2. is c

Answer for Question No 3. is d

Answer for Question No 4. is a

Answer for Question No 5. is b

Answer for Question No 6. is d

Answer for Question No 7. is a

Answer for Question No 8. is b

Answer for Question No 9. is a

Answer for Question No 10. is c

Answer for Question No 11. is d

Answer for Question No 12. is a

Answer for Question No 13. is b

Answer for Question No 14. is c

Answer for Question No 15. is a

Answer for Question No 16. is b

Answer for Question No 17. is c

Answer for Question No 18. is a

Answer for Question No 19. is d

Answer for Question No 20. is c

Answer for Question No 21. is d

Answer for Question No 22. is b

Answer for Question No 23. is c

Answer for Question No 24. is b

Answer for Question No 25. is b

Answer for Question No 26. is c

Answer for Question No 27. is a

Answer for Question No 28. is d

Answer for Question No 29. is a

Answer for Question No 30. is d

Answer for Question No 31. is d

Answer for Question No 32. is a

Answer for Question No 33. is a

Answer for Question No 34. is a

Answer for Question No 35. is a

Answer for Question No 36. is d

Answer for Question No 37. is a

Answer for Question No 38. is d

Answer for Question No 39. is b

Answer for Question No 40. is d

Answer for Question No 41. is d

Answer for Question No 42. is b

Answer for Question No 43. is c

Answer for Question No 44. is b

Answer for Question No 45. is d

Answer for Question No 46. is d

Answer for Question No 47. is b

Answer for Question No 48. is b

Answer for Question No 49. is c

Answer for Question No 50. is a

Answer for Question No 51. is c

Answer for Question No 52. is a

Answer for Question No 53. is a

Answer for Question No 54. is d

Answer for Question No 55. is b

Answer for Question No 56. is d

Answer for Question No 57. is a

Answer for Question No 58. is b

Answer for Question No 59. is d

Answer for Question No 60. is c

Answer for Question No 1. is a

Answer for Question No 2. is d

Answer for Question No 3. is c

Answer for Question No 4. is c

Answer for Question No 5. is c

Answer for Question No 6. is a

Answer for Question No 7. is a

Answer for Question No 8. is d

Answer for Question No 9. is a

Answer for Question No 10. is b

Answer for Question No 11. is a

Answer for Question No 12. is a

Answer for Question No 13. is b

Answer for Question No 14. is a

Answer for Question No 15. is b

Answer for Question No 16. is c

Answer for Question No 17. is c

Answer for Question No 18. is b

Answer for Question No 19. is d

Answer for Question No 20. is d

Answer for Question No 21. is a

Answer for Question No 22. is c

Answer for Question No 23. is b

Answer for Question No 24. is a

Answer for Question No 25. is d

Answer for Question No 26. is d

Answer for Question No 27. is c

Answer for Question No 28. is b

Answer for Question No 29. is b

Answer for Question No 30. is c

Answer for Question No 31. is d

Answer for Question No 32. is a

Answer for Question No 33. is c

Answer for Question No 34. is d

Answer for Question No 35. is d

Answer for Question No 36. is b

Answer for Question No 37. is a

Answer for Question No 38. is a

Answer for Question No 39. is c

Answer for Question No 40. is a

Answer for Question No 41. is a

Answer for Question No 42. is c

Answer for Question No 43. is a

Answer for Question No 44. is c

Answer for Question No 45. is c

Answer for Question No 46. is b

Answer for Question No 47. is b

Answer for Question No 48. is b

Answer for Question No 49. is d

Answer for Question No 50. is b

Answer for Question No 51. is d

Answer for Question No 52. is b

Answer for Question No 53. is a

Answer for Question No 54. is c

Answer for Question No 55. is d

Answer for Question No 56. is c

Answer for Question No 57. is a

Answer for Question No 58. is c

Answer for Question No 59. is d

Answer for Question No 60. is b

Answer for Question No 1. is b

Answer for Question No 2. is b

Answer for Question No 3. is a

Answer for Question No 4. is a

Answer for Question No 5. is a

Answer for Question No 6. is a

Answer for Question No 7. is b

Answer for Question No 8. is d

Answer for Question No 9. is a

Answer for Question No 10. is a

Answer for Question No 11. is a

Answer for Question No 12. is b

Answer for Question No 13. is c

Answer for Question No 14. is d

Answer for Question No 15. is b

Answer for Question No 16. is d

Answer for Question No 17. is a

Answer for Question No 18. is a

Answer for Question No 19. is c

Answer for Question No 20. is c

Answer for Question No 21. is c

Answer for Question No 22. is b

Answer for Question No 23. is b

Answer for Question No 24. is d

Answer for Question No 25. is c

Answer for Question No 26. is b

Answer for Question No 27. is b

Answer for Question No 28. is c

Answer for Question No 29. is d

Answer for Question No 30. is a

Answer for Question No 31. is d

Answer for Question No 32. is a

Answer for Question No 33. is d

Answer for Question No 34. is a

Answer for Question No 35. is b

Answer for Question No 36. is c

Answer for Question No 37. is a

Answer for Question No 38. is a

Answer for Question No 39. is d

Answer for Question No 40. is d

Answer for Question No 41. is b

Answer for Question No 42. is d

Answer for Question No 43. is d

Answer for Question No 44. is a

Answer for Question No 45. is d

Answer for Question No 46. is d

Answer for Question No 47. is d

Answer for Question No 48. is d

Answer for Question No 49. is b

Answer for Question No 50. is d

Answer for Question No 51. is d

Answer for Question No 52. is d

Answer for Question No 53. is d

Answer for Question No 54. is a

Answer for Question No 55. is b

Answer for Question No 56. is a

Answer for Question No 57. is a

Answer for Question No 58. is d

Answer for Question No 59. is d

Answer for Question No 60. is d

Answer for Question No 1. is a

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Answer for Question No 54. is d

Answer for Question No 55. is c

Answer for Question No 56. is c

Answer for Question No 57. is b

Answer for Question No 58. is c

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Answer for Question No 57. is c

Answer for Question No 58. is b

Answer for Question No 59. is d

Answer for Question No 60. is a
