

**Branch:CSE**

**Sub: IOT**

**Code:PEC-CS-S-703**

**MCO QUESTION BANK**

**(Unit No:1)**

**1) How many numbers of the element in the open IoT architecture?**

- a) Four elements
- b) Five elements
- c) Six elements
- d) Seven elements

**Ans: d**

**2. Which of the following is the way in which an IoT device is associated with data?**

- a) Internet
- b) Cloud
- c) Automata
- d) Network

**Ans: b**

**3. Which of the following IoT networks has a very short range?**

- a) Short Network
- b) LPWAN
- c) SigFox
- d) Short-range Wireless Network

**Ans: d**

**4. What is the full form of the LPWAN?**

- a) Low Protocol Wide Area Network
- b) Low Power Wide Area Network
- c) Long Protocol Wide Area Network
- d) Long Power Wide Area Network

**Ans.d**

**5) An IoT network is a collection of\_\_\_\_\_devices.**

- a) Signal
- b) Machine to Machine
- c) Interconnected
- d) Network to Network

**Ans:c**

**6. Which one of the following is not an IoT device?**

- a. Amazon echo voice controller
- b. Google Home
- c. Nest Smoke Alarm
- d. None of these

**Ans: d**

**7. What is the main purpose of WoT (Web of Things) in the IoT?**

- a) Improve the usability and interoperability
- b) Reduce the security
- c) Complex the development
- d) Increase the cost

**Ans: a**

**8.What is the Arduino UNO?**

- a) Software
- b) Hardware device
- c) Network
- d) Protocol

**Ans: b**

**9.\_\_\_\_\_allows the user to control electronic components.**

- a) Android API
- b) RESTful API
- c) MQTT API
- d) CoAP API

**Ans: b**

**10. Which of the following is not an application of IoT?**

- a) Wearables
- b) Smart Grid
- c) Arduino
- d) Smart City

**Ans: c**

**11. Which one of the following protocols is lightweight?**

- a) IP
- b) HTTP
- c) MQTT
- d) CoAP

**Ans: c**

**12. What is the real example of a smart grid device in IoT?**

- a) Mobile phone
- b) Television
- c) Smart Speaker
- d) Smart Meters

**Ans: d**

**13. What is the full form of the MQTT?**

- a) Multi-Queue Telemetry Things
- b) Multiple Queue Telemetry Things
- c) Message Queue Telemetry Things
- d) Message Queue Telemetry Transport

**Ans: d**

**14. What is the full form of ICT?**

- a) InterConnect Technology
- b) Internet Connection Topology

- c) Information and Communication Technology
- d) Infer Communication Topology

**Ans: c**

**15. Which of the following frequencies is correct for the Galileo gen 2 board?**

- a) 250 MHz
- b) 400 MHz
- c) 450 MHz
- d) 300 MHz

**Ans: b**

**16. What is the standard port number of secure MQTT?**

- a) 1883
- b) 8000
- c) 8883
- d) 8888

**Ans: c**

**17. Which of the following layers provides end-to-end communication in IoT?**

- a) Logical layer
- b) Data link layer
- c) Transport layer
- d) Session layer

**Ans: d**

**18. Which of the following devices is used to measure the gases or liquid?**

- a) Optical Sensor
- b) Gas Sensor
- c) Smoke Sensor
- d) Pressure sensor

**Ans: d**

**19. Which interface does the fingerprint sensor use?**

- a) UART interface

- b) CoAP interface
- c) SPI interface
- d) I2P interface

**Ans: a**

**20. What is the full form of HDLC?**

- a) Higher Data Level Communication
- b) Higher Data Link Communication
- c) High-level Data Link Control
- d) High Data Level Control

**Ans: c**

**21. When the clock line SCL is high, the SDA is\_\_\_\_\_transitioned.**

- a) Low
- b) High
- c) Medium
- d) All of the these

**Ans: a**

**22. Which of the following protocols does the secure digital card application use?**

- a) XMPP
- b) SPI
- c) MQTT
- d) HTTPS

**Ans: b**

**23. Which of the following topology is used for ZigBee Smart Energy?**

- a) Bus Topology
- b) Ring Topology
- c) Star Topology
- d) Any Topology

**Ans: c**

**24. Which of the following protocols does not exist at the data link layer?**

- a) ZigBee Smart Energy
- b) LoRaWAN
- c) WirelessHART
- d) Secure MQTT

**Ans: d**

**25. What is MQTT primarily used for?**

- a) User communication
- b) System transfer
- c) Machine to Machine Communication
- d) Create connection

**Ans: c**

**26. What is another name of the tactile sensor?**

- a) Weight sensor
- b) Imaging sensor
- c) Proximity sensor
- d) Touch sensor

**Ans: d**

**27. How many types of capacitive touch sensors in IoT?**

- a) Two types
- b) Five types
- c) Seven types
- d) Nine types

**Ans: a**

**28. Which of the following touch sensors is used in a cell phone?**

- a) Resistive touch sensors
- b) Human sensor
- c) Capacitive touch sensor
- d) Follow sensor

**Ans: c**

**29. Which of the following is the example of a short-range wireless network?**

- a) VPN
- b) Wi-Fi
- c) Internet
- d) WWW

**Ans: b**

**30. MQTT is better than HTTP for sending and receiving data.**

- a) True
- b) False

**Ans:a**

**31. Rest API is used by which model?**

- a) REQUEST RESPONSE
- b) PUBLIC SUBSCRIBE
- c) PUSH PULL
- d) EXCLUSIVE PAIR

**Ans:a**

**32. Which protocol is used in REST API?**

- a) HTTP
- b) FTP
- c) UDP
- d) IP

**Ans:a**

**33. How IOT devices are differentiated?**

- a) By type
- b) By Name
- c) By UID
- d) By Design

**Ans:c**

**34. Which layer is used to send the data gram over the network?**

- a) Link layer
- b) Network layer
- c) Transport layer
- d) Application layer

**Ans:b**

**35. IPv4 is how much bit numebr?**

- a) 32
- b) 8
- c) 64
- d) 256

**Ans:b**

**36. Which protocol is stateless?**

- a) HTTP
- b) UDP
- c) FTP
- d) TCP

**Ans:b**

**37. Which protocol enables device to communicate over the internet?**

- a) MQTT
- b) XMPP
- c) CoAP
- d) Web Socket

**Ans:d**

**38. Which protocol is used to integrate the component of the system together?**

- a) DDS
- b) XMPP
- c) MQTT
- d) CoAP

**Ans:b**

**39. In which model, Request are independent of each other**

- a) REQUEST RESPONSE
- b) EXCLUSIVE PAIR
- c) PUSH PULL
- d) PUBLIC SUBSCRIBE

**Ans:b**



**40. 802.16 is a standard of ?**

- a) Ethernet
- b) WiFi
- c) Wi Max
- d) LR WPAN

**Ans:c**

**41. Web Socket base communication API is used by which model?**

- a) Push Pull
- b) Request Response
- c) Exclusive pair
- d) Public Subscribe

**Ans:c**

**42. MQTT is a protocol of?**

- a) Machine to machine
- b) IOT
- c) M2M and IOT
- d) Machine thing

**Ans:a**

**43.SDN stands for**

- a) software defination networking
- b) software defined networking
- c) none of the above

**Ans:b**

**44) Alternate and adaptive routing algorithm belongs to .....**

- a) static routing
- b) permanent routing
- c) standard routing
- d) dynamic routing

**Ans d**

**45)protocol is a popular example of a link-state routing protocol.**

- a) SPF

- b) BGP
- c) RIP
- d) OSPF

**Ans d**

**46) An example of the routing algorithm is ...**

- a) TELNET
- b) TNET
- c) ARPANET
- d) ARNET

**Ans. c**

**47) The Enhanced Interior Gateway Routing Protocol(EIGRP) is categorized as a .....**

- a) Distance vector routing protocols
- . b) Link state routing protocols
- c) Hybrid routing protocols
- d) Automatic state routing protocols

**Ans a**

**48) In .....routing, the routing table hold the address of just the next hop instead of complete route information.**

- a) next-hop
- b host-specific
- c) network-specific
- d) default

**Ans c**

**49) was originally developed to provide a loop-free method of exchanging routing information between autonomous systems.**

- a) OSPF
- b) EIGRP

- c) BGP
- d) RIP

**Ans c**

**50) In .....routing, the destination address is a network address in the routing tables.**

- a) next-hop
- b) host-specific
- c) network-specific
- d) Default

**Ans c**

**Branch:CSE**

**Sub: IOT**

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**MCO QUESTION BANK**

**(Unit No:2)**

**1. Hardware address is known as \_\_\_\_\_**

- a) MAC address
- b) IP Address
- c) Network Interface Card
- d) Address Resolution Protocol

**Ans:a**

**2. MAC stands for \_\_\_\_\_**

- a) Media Area Control
- b) Memory Access Control
- c) Memory Area Control
- d) Media Access Control

**Ans: d**

**3. What translates IP address into MAC address?**

- a) Organizationally Unique Identifier
- b) Address Resolution Protocol
- c) Network Interface Card
- d) Burned In Address

**Ans: c**

**4. Networking Hardware Address is referred with \_\_\_\_\_**

- a) IP address
- b) MAC address
- c) NIC
- d) Organizationally Unique Identifier

**Ans: b**

**5. Does MAC address contain characters.**

- a) True
- b) False

**Ans: a**

**6. On wireless networks\_\_\_\_\_filtering is the security measure.**

- a) OUI
- b) IP
- c) NIC
- d) MAC

**Ans: d**

**7. IEEE standards for Institute of Electrical and Electronics Engineers.**

- a) False
- b) True

**Ans: b**

**8. MAC addresses are used as \_\_\_\_\_**

- a) Network addresses
- b) IP address
- c) Hardware address
- d) Burned in address

**Ans: a**

**9. BAN stands for \_\_\_\_\_**

- a) Body Area Network
- b) Brain Area Network
- c) Body Android Network
- d) Brain Android Network

**Ans: a**

**10. BAN gives \_\_\_\_\_**

- a) Communication
- b) Storage

- c) Network connectivity
- d) Communication and storage

View Answer

**Ans: d**

**11. NFC stands for \_\_\_\_\_**

- a) Near Fast Communication
- b) Near Field Communication
- c) Near Field Customer
- d) Near Field Connection

**Ans: b**

**12. Phones act as actuators too.**

- a) True
- b) False

**Ans: a**

**13. The AI refers to \_\_\_\_\_**

- a) Electronic environment
- b) Devices
- c) Applications
- d) Electronic environment and devices

**Ans: d**

**14. Smart phones can be used in IoT setup with \_\_\_\_\_ application categories.**

- a) 2 Applications
- b) 3 Applications
- c) 4 Applications
- d) 5 Applications

**Ans: c**

**15. Which category finds an increase in applications targeting health and fitness?**

- a) Personal IoT
- b) Group IoT

- c) Community IoT
- d) Industrial IoT

**Ans: a**

**16. Which category is used in the context of connected cars?**

- a) Personal IoT
- b) Group IoT
- c) Community IoT
- d) Industrial IoT

**Ans: b**

**17. Which category could be used by citizens to contribute to a smart city?**

- a) Personal IoT
- b) Group IoT
- c) Community IoT
- d) Industrial IoT

**Ans: c**

**18. Which category is used for business to consumer process?**

- a) Personal IoT
- b) Group IoT
- c) Community IoT
- d) Industrial IoT

**Ans: d**

**19. Future application of IoT through phones includes viewing data and controlling sensors anywhere.**

- a) True
- b) False

**Ans: a**

**20. \_\_\_\_\_layer is the communication layer that connects the IoT devices with WAN.**

- a) Internet layer
- b) Application layer

- c) Sensor layer
- d) Network layer

**Answer: d**

**21. Which statement is true regarding classless routing protocols?**

- a) The use of discontinuous networks is not allowed
- b) The use of variable length subnet masks is permitted
- c) RIPv1 is a classless routing protocol
- d) RIPv2 supports classless routing

**Ans: b**

**22. What is route poisoning?**

- a) It sends back the protocol received from a router as a poison pill, which stops the regular updates. The use of variable length subnet masks is permitted
- b) It is information received from a router that can't be sent back to the originating router. RIPv2 supports classless routing
- c) It prevents regular update messages from reinstating a route that has just come up
- d) It describes when a router sets the metric for a downed link to infinity

**Ans: d**

**23. Which of the following is true regarding RIPv2?**

- a) It has a lower administrative distance than RIPv1
- b) It converges faster than RIPv1
- c) It has the same timers as RIPv1
- d) It is harder to configure than RIPv1

**Ans: c**

**24. Which of the situations might not require multiple routing protocols in a network?**

- a) When a new Layer 2-only switch is added to the network
- b) When you are migrating from one routing protocol to another
- c) When you are using routers from multiple vendors
- d) When there are host-based routers from multiple vendors

**Ans: a**



**25. Which two routing protocols can be redistributed into OSPF by a Cisco router?**

- a) IP EIGRP and AppleTalk EIGRP
- b) AppleTalk EIGRP and RIPv2
- c) RIPv2 and IP EIGRP
- d) IPX RIP & AppleTalk EIGRP

**Ans: c**

**26. Which is a reason for avoiding doing route redistribution on two routers between the same two routing domains?**

- a) Higher cost of two routers
- b) Routing feedback
- c) Cisco IOS incompatibility
- d) Not possible to use two routers

**Ans: b**

**27. Which protocol maintains neighbor adjacencies?**

- a) RIPv2 and EIGRP
- b) IGRP and EIGRP
- c) RIPv2
- d) EIGRP

**Ans: c**

**28. Which routing protocol implements the diffusing update algorithm?**

- a) IS-IS
- b) IGRP
- c) EIGRP
- d) OSPF

**Ans: c**

**29) Which of the following is not the requirement of routing function?**

- a) Correctness
- b) Robustness

- c) Delay time
- d) Stability

**Ans:c**

**30) The ..... protocol allows the administrator to assign a cost, called the metric, to each route.**

- a) OSPF
- b) RIP
- c) BGP
- d) BBGP

**Ans:a**

**31) If there is only one routing sequence for each source destination pair, the scheme is known as .....**

- a) static routing
- b) fixed alternative routing
- c) standard routing
- d) dynamic routing

**Ans:b**

**34) The Open Shortest Path First(OSPF) protocol is an intra domain routing protocol based on ..... routing.**

- a) distance vector
- b) link state
- c) path vector
- d) non distance vector

**Ans:b**

**35) An/A .....routing scheme is designed to enable switches to react to changing traffic patterns on the network.**

- a) static routing
- b) fixed alternative routing
- c) standard routing
- d) dynamic routing

**Ans:c**

**36) The Routing Information Protocol(RIP) is an intra domain routing based on ..... routing.**

- a) distance vector
- b) link state
- c) path vector
- d) distance code

**Ans:a**

**37) The term .....refers to which node or nodes in the network are responsible for the routing decision.**

- a. decision place
- b. routing place
- c. node place
- d. switching place

**Ans:a**

**38) In .....routing the least cost route between any two nodes is the minimum distance.**

- a. path vector
- b. distance vector
- c. link state
- d. Switching

**Ans:b**

**39) For centralized routing the decision is made by some designated node called .....**

- a) designated center
- b) control center
- c) network center
- d) network control center

**Ans:d**

**40) For purposes of routing, the Internet is divided into .....**

- a) wide area networks

- b) autonomous networks
- c) local area networks
- d) autonomous system

**Ans:d**

**41) In .....a route is selected for each destination pair of nodes in the network.**

- a) flooding
- b) variable routing
- c) fixed routing
- d) random routing

**Ans:c**

**42) To create a neighborhood relationship, a router running BGP sends an.....message.**

- a) open
- b) update
- c) keep alive
- d) close

**Ans:b**

**43) The technique which requires no network information required is ....**

- a) flooding
- b) variable routing
- c) fixed routing
- d) random routing

**Ans:a**

**44) An area is ....**

- a. part of an AS
- b. composed of at least two AS
- c. another term for an AS
- d.. composed more than two AS

**Ans:a**

**45) Which of the following produces high traffic network?**

- a). Variable routing
- b). Flooding
- c). Fixed routing
- d). Random routing

**Ans:b**

**46) In .....routing, we assume that there is one node (or more) in each autonomous system that acts on behalf of the entire autonomous system.**

- a. distant vector
- b. path vector
- c. link state
- d. Multipoint

**Ans:b**

**47) When a direct delivery is made, both the deliverer and receiver have the same ....**

- a) routing table
- b) host id
- c) IP address
- d) Net id

**Ans:d**

**48) In OSPF, a .....link is a network with several routers attached to it.**

- a) point-to-point
- b) transient
- c) stub
- d) Multipoint

**Ans:b**

**49) In ..... routing, the mask and the destination address are both 0.0.0.0 in routing table.**

- a) next-hop
- b) host-specific
- c) network-specific
- d) default

**Ans:d**

**50) In .....the router forwards the receive packet through only one of its interfaces.**

- a) unicasting
- b) multicasting
- c) broadcasting
- d) point to point

**Ans:b**

**Branch: BTECH**

**Sub: IOT**

**Code: PEC-CS-S-703**

**MCO OESTION BANK**

**(Unit No:3)**

**1. How many main components IoT mainly consists of?**

- a) 2
- b) 3
- c) 4
- d) 5

**Ans : c**

**2. \_\_\_\_\_are the devices that are able to emit, accept and process data over the network.**

- a) Sensors
- b) Gateways
- c) Edge IT
- d) Data Acquisition

**Ans : a**

**3. What translates IP address into MAC address?**

- a) Organizationally Unique Identifier
- b) Address Resolution Protocol
- c) Network Interface Card
- d) Burned In Address

**Ans: c**

**4. \_\_\_\_\_in the IoT Architecture is the hardware and software gateways that analyze and pre-process the data before transferring it to the cloud.**

- a) Data center
- b) Edge IT
- c) Gateways
- d) Data Acquisition

**Ans : c**

**5. Which of the following is false?**

- a) APIs are glue
- b) SOA components not loosely coupled
- c) Kapua also provides a core integration framework.
- d) None of the above

**Ans : b**

**6. Global Sensor Network is built for\_\_\_\_\_.**

- a) Increasing cost and increasing time for development
- b) Reducing cost and increasing time for development
- c) Reducing cost and time for development
- d) Increasing cost and decreasing time for development

**7. IEEE standards for Institute of Electrical and Electronics Engineers.**

- a) False
- b) True

**Ans: b**

**8. One of the main characteristics of Linked Stream Data is Live Streaming.**

- a) TRUE
- b) FALSE
- c) Can be true or false
- d) None of the above

**Ans : a**

**9. The SOA architecture is divided into how many layers?**



- a) 5 layers
- b) 6 layers
- c) 7 layers
- d) 2 layers

**Ans : d**

**10. BAN gives \_\_\_\_\_**

- a) Communication
- b) Storage
- c) Network connectivity
- d) Communication and storage

**Ans: d**

**11. What happens when service providers change their operating system and communication protocols?**

- a) Inoperability and complexity arises
- b) Only complexity arises
- c) Only Inoperability arises
- d) Nothing arises

**Ans : a**

**12. Ubiquitous service provision depends on \_\_\_\_\_**

- a. QoS
- b. Management
- c. Interoperability
- d. Routing

**Ans : c**

**13. The AI refers to \_\_\_\_\_**

- a) Electronic environment
- b) Devices
- c) Applications
- d) Electronic environment and devices

**Ans: d**

**14. API architecture not only includes critical elements but also caters for \_\_\_\_\_**

- a) System
- b) Devices
- c) Network
- d) Multi homing

**Ans : d**

**15. The number of elements in the Open IoT Architecture?**

- a) 6 elements
- b) 8 elements
- c) 7 elements
- d) 3 elementr

**Ans: c**

**16. Global Sensor Network is built for \_\_\_\_\_**

- a) Reducing cost and time for development
- b) Reducing cost and increasing time for development
- c) Increasing cost and increasing time for development
- d) Increasing cost and decreasing time for development

**Ans: a**

**17. The huge number of devices connected to the Internet of Things has to communicate automatically, not via humans. What is this called?**

- a) Skynet
- b) Bot 2 Bot
- c) Machine 2 Machine
- d) Intercloud**

**Ans c**

**18. Which category is used for business to consumer process?**

- a) Personal IoT
- b) Group IoT
- c) Community IoT
- d) Industrial IoT**

**Ans: d**

**19. Internet of Things needs a lot of network connection. What is the proposed “white Space” radio standard called?**

- a) Bluetooth
- b) WiMax
- c) Weightless
- d) Zigbee

**Ans: c**

**Ans: a**

**20. \_\_\_\_\_layer is the communication layer that connects the IoT devices with WAN.**

- a) Internet layer
- b) Application layer
- c) Sensor layer
- d) Network layer

**Answer: d**

**21. Which is the core wrapper of GSN?**

- a) Serial
- b) UDP
- c) GPSTest
- d) ZeroMQWrapper

**Ans: d**

**22. Open IoT manages the registration, data acquisition, deployment of sensors and interconnected of objects, through which network?**

- a) GSN
- b) X-GSN
- c) LSM
- d) HTTP

**Ans: b**

**23. Which environment does Global Sensor Network work on?**

- a) C++

- b) JAVA
- c) HTML
- d) C

Ans: b

**24. \_\_\_\_\_ is a community that is working together to establish an IoT architecture.**

- a) Eclipse IoT
- b) Red Hat
- c) Intercloud
- d) Bot 2 Bot

**Ans: a**

**25. \_\_\_\_\_ provides a middleware and application container for IoT gateway.**

- a) Eclipse Kura
- b) Red Hat
- c) Intercloud
- d) Bot 2 Bot

**Ans: a**

**26. \_\_\_\_\_ is a modular and cloud based platform.**

- a) Eclipse Kura
- b) Red Hat
- c) Intercloud
- d) Eclipse Kapua

**Ansr: d**

**27. Kapua also provides a core integration framework.**

- a) True
- b) False

**Ans: a**

**28. \_\_\_\_\_ an open source stack for gateways and the edge.**

- a) Eclipse Kapua

- b) Red Hat
- c) Intercloud
- d) Eclipse Kura

**Ans: d**

**29) Which of the following is Cloud Platform by Amazon?**

- a) Azure
- b) AWS
- c) Cloudera
- d) All of the mentioned

**Answer: b**

**30. Cloud computing is an abstraction based on the notion of pooling physical resources and presenting them as a \_\_\_\_\_ resource.**

- a) real
- b) virtual
- c) cloud
- d) none of the mentioned

**Ans: b**

**31) Which of the following can be identified as cloud?**

- a) Web Applications
- b) Intranet
- c) Hadoop
- d) All of the mentioned

**Ans: c**

**32) \_\_\_\_\_ has many of the characteristics of what is now being called cloud computing.**

- a) Internet
- b) Softwares
- c) Web Service
- d) All of the mentioned

**Ans: a**

**33) Which of the following cloud concept is related to pooling and sharing of resources?**

- a) Polymorphism
- b) Abstraction
- c) Virtualization
- d) None of the mentioned

**Ans: c**

**34) Point out the wrong statement.**

- a) All applications benefit from deployment in the cloud
- b) With cloud computing, you can start very small and become big very fast
- c) Cloud computing is revolutionary, even if the technology it is built on is evolutionary
- d) None of the mentioned

**Ans: a**

**35) Which of the following is essential concept related to Cloud?**

- a) Reliability
- b) Productivity
- c) Abstraction
- d) All of the mentioned

**Ans: c**

**36) \_\_\_\_\_ as a utility is a dream that dates from the beginning of the computing industry itself.**

- a) Model
- b) Computing
- c) Software
- d) All of the mentioned

**Ans: b**

**37) Which one of the following options can be considered as the Cloud?**

- a) Hadoop
- b) Intranet
- c) Web Applications
- d) All of the mentioned

**Ans: a**

**38 )Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them as \_\_\_\_\_resources to users.**

- a) Real
- b) Cloud
- c) Virtual
- d) none of the mentioned

**Ans: c**

**39 )Which of the following has many features of that is now known as cloud computing?**

- a) Web Service
- b) Softwares
- c) All of the mentioned
- d) Internet

**Ans.d**

**40 )Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them as \_\_\_\_\_resources to users.**

- a) Real
- b) Cloud
- c) Virtual
- d) none of the mentioned

**Answer: c**

**41) Which one of the following statements is not true?**

- a) The popularization of the Internet actually enabled most cloud computing systems.
- b) Cloud computing makes the long-held dream of utility as a payment possible for you, with an infinitely scalable, universally available system, pay what you use.
- c) Soft computing addresses a real paradigm in the way in which the system is deployed.
- d) All of the mentioned

**Ans: C**

**42) Which one of the following can be considered as a utility is a dream that dates from the beginning of the computing industry itself?**

- a) Computing
- b) Model
- c) Software
- d) All of the mentioned

**Answer: a**

**43) The technique which requires no network information required is ....**

- a) flooding
- b) variable routing
- c) fixed routing
- d) random routing

**Ans:a**

**44) An area is ....**

- a. part of an AS
- b. composed of at least two AS
- c. another term for an AS
- d.. composed more than two AS

**Ans:a**

**45) Which one of the following is Cloud Platform by Amazon?**

- a) Azure
- b) AWS
- c) Cloudera
- d) All of the above



**Ans:b**

**46) ) Which of the following statement is not true?**

- a) Through cloud computing, one can begin with very small and become big in a rapid manner.
- b) All applications benefit from deployment in the Cloud.
- c) Cloud computing is revolutionary, even though the technology it is built on is evolutionary.
- d) None of the mentioned

**Ans:b**

**47) In the Planning Phase, Which of the following is the correct step for performing the analysis?**

- a) Cloud Computing Value Proposition
- b) Cloud Computing Strategy Planning
- c) Both A and B
- d) Business Architecture Development

**Ans:c**

**48) Which one of the following is a phase of the Deployment process?**

- a) Selecting Cloud Computing Provider
- b) IT Architecture Development
- c) Business Architecture Development
- d) Transformation Plan Development

**Ans: d**

**49) Which of the model involves the special types of services that users can access on a Cloud Computing platform?**

- a) Service
- b) Planning
- c) Deployment
- d) Application

**Ans: a**

**50) 10) How many phases are present in Cloud Computing Planning?**

a) 2

b) 3

c) 4

d) 5

**Ans:b**

**Branch: BTECH**

**Sub: IOT**

**Code: PEC-CS-S-703**

**MCO OESTION BANK**

**(Unit No:4)**

**1. What is the popular method of organizing wireless network topologies?**

- a) Software
- b) Synchronization
- c) Network
- d) Cluster

**Ans: d**

**2. \_\_\_\_\_ will enable the humans to access, control and manage the operation.**

- a) IoT
- b) Bigdata
- c) Network
- d) Communication

**Answer: a**

**3. In \_\_\_\_\_ the embedded devices and objects working under IoT are resource constrained.**

- a) Health
- b) Industry
- c) Home
- d) Information system

**Answer: d**

**4. What type of networks is interacting under IoT?**

- a) Heterogeneous only
- b) Homogeneous Only
- c) Both hetero and homogeneous
- d) Neither hetero nor Homo

**Ans: a**

**5. Managing of resources can be done by implementing \_\_\_\_\_**

- a) Protocols

- b) Algorithms
- c) Networks
- d) Protocols and algorithms

**Ans: d**

**6. Resource management will elaborate the key aspects of \_\_\_\_\_**

- a) Industrial management
- b) Energy management
- c) Network management
- d) Information management

**Ans: c**

**7. Resource management includes \_\_\_\_\_**

- a) IoT Devices
- b) IoT Cloud
- c) IoT Networks
- d) IoT Web

**Ans: b**

**8. What is the role of communication protocol in IoT?**

- a) Smart cities
- b) Cyber physical system
- c) Mac layer issue
- d) Managing energy

**Ans: c**

**9. Which of the following is the future application of IoT?**

- a) Role of green IoT system
- b) QoS in communication
- c) Secure communication
- d) Multimedia communication

**Ans: a**

**10. The object of IoT will be empowered by \_\_\_\_\_**

- a) Network
- b) Cloud
- c) Devices
- d) Connectivity

**Ans: c**

**11. The embedded devices will form\_\_\_\_\_network.**

- a) ATM
- b) Ethernet
- c) FDDI
- d) Ad-hoc

**Ans: d**

**12. \_\_\_\_\_are used to overcome the challenges of managing the resources of the IoT.**

- a) Clustering
- b) Software agents
- c) Synchronization techniques
- d) Cluster, Software agent, and Synchronization techniques

**Ans: d**

**13. Which will reduce the energy expenditure?**

- a) Clustering
- b) Software agents
- c) Synchronization techniques
- d) Cluster, Software agent, and Synchronization techniques

**Ans: a**

**14. Synchronization techniques will be necessary to address the various challenges of harmonising.**

- a) False
- b) True

**Ans: b**

**15. Which sensor can detect nearby objects?**

- a) Proximity sensor
- b) Humidity sensor

- c) Touch sensor
- d) Pressure sensor

**Ans: a**

**16. The monitoring of machines, gears and objects are achieved by which sensor?**

- a) Humidity sensor
- b) Proximity sensor
- c) Touch sensor
- d) Pressure sensor

**Ans b**

**17. Which proximity sensor detects metal objects?**

- a) Capacitive Proximity Sensor
- b) Magnetic Proximity Sensor
- c) Ultrasonic Proximity Sensor
- d) Inductive Proximity Sensor

**Ans: d**

**18. Which proximity sensor indicates level?**

- a) Inductive Proximity Sensor
- b) Capacitive Proximity Sensor
- c) Magnetic Proximity Sensor
- d) Ultrasonic Proximity Sensor

**Ans: a**

**19. Which proximity sensors are used in automotive?**

- a) Inductive Proximity Sensor
- b) Capacitive Proximity Sensor
- c) Magnetic Proximity Sensor
- d) Ultrasonic Proximity Sensor

**Ans: d**

**20. Which proximity sensor detects positioning of an object?**

- a) Inductive Proximity Sensor
- b) Capacitive Proximity Sensor
- c) Optical Proximity Sensor
- d) Magnetic Proximity Sensor

**Ans: c**

**21. Are proximity sensors used in retail settings?**

- a) True
- b) False

**Ans: a**

**22. Which protocol is used by proximity sensor?**

- a) I2C
- b) SPI
- c) UART/USART
- d) CAN

**Ans: a**

**23. Does proximity sensor have a temperature sensor in it?**

- a) True
- b) False

**Ans: a**

**24. \_\_\_\_\_detects metals but along with it can also detect resins, liquids.**

- a) Inductive proximity
- b) Capacitive Proximity
- c) Magnetic Proximity
- d) Parallel Proximity

**Ans: b**

**25. \_\_\_\_\_sensors have no electrical noise effect and it can work DC.**

- a) Inductive proximity
- b) Capacitive Proximity
- c) Magnetic Proximity

d) Parallel Proximity

**Ans: c**

**26. What is the sensing range for magnetic proximity sensors?**

- a) 120mm
- b) 90mm
- c) 150mm
- d) 100mm

**Ans: a**

**27. What is the sensing range for capacitive proximity sensors?**

- a) 150mm
- b) 25mm
- c) 120mm
- d) 100mm

**Ans: c**

**28. \_\_\_\_\_an open source stack for gateways and the edge.**

- a) Eclipse Kapua
- b) Red Hat
- c) Intercloud
- d) Eclipse Kura

**Ans: d**

**29) Bluetooth operates at short distances.**

- a) Yes
- b) No.

**Ans.a**

**30. Who will use their own IoT business models?**

- a) Iaas
- b) Paas
- c) Saas
- d) Service Provider



**Ans: d**

**31) Which of the following can be identified as cloud?**

- a) Web Applications
- b) Intranet
- c) Hadoop
- d) All of the mentioned

**Ans: c**

**32) *The number of elements in the Open IoTArchitecture?***

- a) 6 elements
- b) 8 elements
- c) 7 elements
- d) 3 elements

**Ans: c**

**33) \_\_\_\_\_method saves the received arguments in three attributes.**

- a) \_\_Init
- b) Init\_\_
- c) \_\_Init\_\_
- d) \_init\_

**Answer: c**

**34. \_\_\_\_\_specifies the function that will be called when there is a new message received from the channel.**

- a) Reconnect
- b) Error
- c) Connect
- d) Callback

**Ans: d**

**35) \_\_\_\_\_ specifies the function that will be called on an error event.**

- a) Callback
- b) Error
- c) Connect
- d) Reconnect

**Ans: b**

**36) \_\_\_\_\_ as a utility is a dream that dates from the beginning of the computing industry itself.**

- a) Model
- b) Computing
- c) Software
- d) All of the mentioned

**Ans: b**

**37) Which of the following is the way in which an IoT device is associated with data?**

- a) Internet
- b) Cloud
- c) Automata
- d) Network

**Ans: b**

**38 ) Which of the following IoT networks has a very short range?**

- a) Short Network
- b) LPWAN
- c) SigFox
- d) Short-range Wireless Network

**Ans:d**

**39 )Which of the following has many features of that is now known as cloud computing?**

- e) Web Service
- f) Softwares
- g) All of the mentioned
- h) Internet

**Ans.d**

**40 ) What is the full form of the LPWAN?**

- a) Low Protocol Wide Area Network
- b) Low Power Wide Area Network
- c) Long Protocol Wide Area Network
- d) Long Power Wide Area Network

**Ans: b**

**41) An IoT network is a collection of\_\_\_\_\_devices.**

- a) Signal
- b) Machine to Machine
- c) Interconnected
- d) Network to Network

**Ans: c**

**42) Which one of the following can be considered as a utility is a dream that dates from the beginning of the computing industry itself?**

- e) Computing
- f) Model
- g) Software
- h) All of the mentioned

**Ans: a**

**43) Which one of the following is not an IoT device?**

- a) Amazon echo voice controller

- b) Google Home
- c) Nest Smoke Alarm
- d) None of these

**Ans: d**

**44) What is the main purpose of WoT (Web of Things) in the IoT?**

- a) Improve the usability and interoperability
- b) Reduce the security
- c) Complex the development
- d) Increase the cost

**Ans: a**

**45) What is the Arduino UNO?**

- a) Software
- b) Hardware device
- c) Network
- d) Protocol

**Ans: b**

**46) \_\_\_\_\_ allows the user to control electronic components.**

- a) Android API
- b) RETful API
- c) MQTT API
- d) CoAP API

**Ans: b**

**47) Which of the following is not an application of IoT?**

- a) Wearables
- b) Smart Grid
- c) Arduino

- d) Smart City

**Ans:c**

**48) Which one of the following protocols is lightweight?**

- a) IP
- b) HTTP
- c) MQTT
- d) CoAP

**Ans:c**

**49) Which of the following layers provides end-to-end communication in IoT?**

- a) Logical layer
- b) Data link layer
- c) Transport layer
- d) Session layer

**Ans: c**

**50) What is the real example of a smart grid device in IoT?**

- a) Mobile phone
- b) Television
- c) Smart Speaker
- d) Smart Meters

**Ans: d**

**Branch: CSE**

**Sub: IOT**

**Code: PEC-CS-S-703**

**University Paper**

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[No. of Printed Pages – 2]

CSIT136

Enrol. No. ....

[ET]

END SEMESTER EXAMINATION : APR.-MAY, 2017

**INTERNET OF THINGS**

*Time : 3 Hrs.*

*Maximum Marks : 70*

*Note: Attempt questions from all sections as directed.*

**SECTION – A (30 Marks)**

*Attempt any five questions out of six.*

*Each question carries 06 marks.*

1. How will companies keep information safe?
2. Explain the various IoT vulnerabilities and attacks.
3. What are layers in networking and why a layered approach?
4. Will IoT actually work over the internet or will it have its own dedicated wide area network?
5. What effect will the Internet of Things (IoT) have on our daily lives?
6. Discuss the advantages of IPV6 over IEEE 802.15.4.

P.T.O.

**SECTION - B (20 Marks)**

Attempt any two questions out of three.

Each question carries 10 marks.

7. Write the short note on :
- (i) RTLS + GPS
  - (ii) RFID + NFC
  - (iii) Peer to Peer
8. (a) What are main difference between Ubiquitous computing and Pervasive computing? (5)
- (b) List the economic impacts of Internet of things. (5)
9. (a) When virtual-world capabilities meet real-world business. How it affect people? (5)
- (b) Briefly describe the handoffs and their existing types in Internet of things. (5)

**SECTION - C (20 Marks)**

(Compulsory)

10. (a) Describe the detailed study about that what and when Internet of Things (IOT) needs to become a reality. Explain with case study example. (10)
- (b) How an Internet of Things, such as sensors and network technology, is company processes and consumer Interactions and even entire business models. Comment? (10)

(200)

(242)

**Branch: CSE**

**Sub: IOT**

**Code: PEC-CS-S-703**

**University Paper**

CSIT136

2

**SECTION - B (20 Marks)**

*Attempt any two questions out of three.*

*Each question carries 10 marks.*

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  - (ii) RFID + NFC
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(242)

(200)