



BRAINWARE UNIVERSITY

Term End Examination 2021 - 22
Programme – Master of Computer Applications
Course Name – Internet of things
Course Code - MCA402A
(Semester IV)

Time allotted : 1 Hrs.15 Min.

Full Marks : 60

[The figure in the margin indicates full marks.]

Group-A

(Multiple Choice Type Question)

1 x 60=60

Choose the correct alternative from the following :

- (1) IoT is known as

a) Internet of Things	b) Internet of Theory
c) Initialization of Tasks	d) Interest of Things
- (2) The number of elements in the Open IoT Architecture?

a) 3	b) 6
c) 7	d) 8
- (3) What does HTTP do?

a) Enables network resources and reduces perception of latency	b) Reduces perception of latency and allows multiple concurrency exchange
c) Allows multiple concurrent exchange and enables network resources	d) Enables network resources and reduces perception of latency and Allows multiple concurrent exchange
- (4) Which protocol is being used in IoT?

a) MQMT	b) CoAP
c) HTTP	d) All of these
- (5) HTTP allows which type of response?

a) Multiplexing	b) Serial
c) Binary	d) Coherent
- (6) Which one is not an element of IoT?

a) People	b) Process
c) Security	d) Things
- (7) What risk and challenges should be considered in Internet of Everything?

a) Privacy and security	b) Network Congestion
c) Energy Consumption	d) All of these
- (8) Who invented the term Internet of Things?

a) Bill Gates	b) Kevin Asthon
c) Steve Jobs	d) McDonald
- (9) In IoT , the huge number of devices connected with internet have to communicate automatically, it is known as

- a) Bot to Bot communication
c) Machine to Machine communication
- b) Machine to Human Communication
d) Human to Human communication
- (10) What is the size of IP V6 address?
a) 32 Bits
c) 64 bits
- b) 56 Bits
d) 128 bits
- (11) Which of the following technology is being used by IoT?
a) Radio Identification Technology
c) cable
- b) satellite
d) Broadband
- (12) Which one of the following is not a concern for IoT?
a) Data storage standards
c) Privacy concern
- b) Efficiency
d) High Cost of Sensor
- (13) Open IoT manages the registration, data acquisition, deployment of sensors and interconnected of objects, through which network?
a) GSN
c) Zigbee
- b) X-GSN
d) HTTP
- (14) OSI Model has how many layers?
a) 2
c) 5
- b) 3
d) 7
- (15) Which protocol interacts asynchronously over UDP?
a) HMTP
c) HTTP
- b) CoAP
d) TCP/IP
- (16) The IETF standards documents are called
a) RFC
c) ID
- b) RCF
d) DFC
- (17) The huge number of devices connected to the Internet of Things has to communicate automatically, not via humans. What is this called?
a) Bot to Bot
c) Process to Process
- b) Machine to Machine
d) None of these
- (18) Application layer protocol defines
a) Types of messages exchanged
c) rules for when and how processes send and respond to messages
- b) message format, syntax and semantics
d) All of these
- (19) When displaying a web page, the application layer uses which of the following protocol?
a) HTTP Protocol
c) FTP Protocol
- b) TCP/IP Protocol
d) SMTP Protocol
- (20) The time taken by a packet to travel from client to server and then back to the client is called
a) STT
c) PTT
- b) RTT
d) JTT
- (21) Which protocol is lightweight?
a) MQTT
c) FTP
- b) HTTP
d) CoAP
- (22) Global Sensor Network is built for
a) Reducing cost and time for development
c) Increasing cost and increasing time for development
- b) Reducing cost and increasing time for development
d) None of these
- (23) WSN Stands for
a) Wireless sensor network
c) Workable Sensor Network
- b) Wired sensor network
d) None of these
- (24) PIP stands for which of the following?

- a) Package Management System
c) PIP installs packages
- b) Python Package Index
d) Python Management System
- (25) Requests package is a very popular library of which of the following?
a) HTTP
b) MQTP
c) CoAP
d) SMTP
- (26) A request from client is basically made of
a) Method
b) Task
c) Event
d) Signal
- (27) IANA stands for _____
a) Internet Assigned Numbers Authority
b) Internal Assigned Numbers Authority
c) Internet Associative Numbers Authoritative
d) Internal Associative Numbers Authority
- (28) VLSM is an acronym for
a) Version Length Subnet Masking
b) Variable Length Subnet Masking
c) Variable Length Surface Masking
d) Version Length Surface Masking
- (29) Who created MQTT?
a) Robert Cailliau
b) Tim Berners-Lee
c) Andy Stanford-Clark
d) Rajkumar Buyya
- (30) Which sensor measure the pressure relative to atmospheric pressure?
a) Absolute pressure sensor
b) Gauge pressure sensor
c) Vacuum pressure sensor
d) Differential pressure sensor
- (31) Barometer is which type of sensor
a) Pressure sensor
b) Touch Sensor
c) Humidity Sensor
d) None of these
- (32) AMQP stands for
a) Advanced Message Queuing Protocol
b) Advanced Mailing Queuing Protocol
c) Application Message Queuing Protocol
d) Advanced Message Query Protocol
- (33) The best example for interoperability at the application layer is?
a) Data
b) Net
c) File
d) Web
- (34) Application layer interacts directly with the
a) End User
b) Wired Link
c) Sensor
d) Data
- (35) The _____ may become an important facilitator and stimulate for the modern economy.
a) e-Government related
b) Enterprise-based
c) Company based
d) Business oriented platform
- (36) Which of the following is the core element of architecture of smart city ?
a) Mobile Unified Service
b) Urban Application Platform
c) Management center
d) Integrated Information Provider
- (37) What is the drawback of using Lockitron?
a) Wastage of more energy
b) Supports in some devices only
c) Won't work at some conditions
d) Tough installation
- (38) Video surveillance as a service comes under
a) Smart logistics
b) Smart agriculture
c) Smart surveillance system
d) None of these
- (39) Which of the following city has been added newly in smart city project?
a) Aizawl
b) Lukhnow
c) Chandigarh
d) both Lukhnow and Chandigarh
- (40) The centre announced the names of cities & towns to be developed as smart cities on 27th Aug'15. Which state gets the maximum number of aspirant smart cities ?

- a) Maharashtra
c) Uttar Pradesh
- b) Telengana
d) Madhya Pradesh
- (41) An important component of IoT that helps in sensing the environmental condition and perform an action is the
- a) Sensor
c) WIFI Connection
- b) Switch
d) User Interface
- (42) What is the another name of Smart Home?
- a) Future Home
c) Green Home
- b) Home automation
d) New Home
- (43) Arduino shields are also called as _____
- a) Extra peripheral
c) Connectivity modules
- b) Add on modules
d) Another Arduinos
- (44) program written with the IDE for Arduino is called
- a) IDE source
c) Cryptography
- b) Sketch
d) Source Code
- (45) Arduino IDE consists of 2 functions
- a) Build() and loop()
c) Setup() and loop()
- b) Setup() and build()
d) Loop() and build() and setup()
- (46) What is the java extension file in IoT?
- a) .jar
c) .exe
- b) .c
d) .py
- (47) What will be the output of the following code : `print type(type(int))`
- a) type 'int'
c) error
- b) class type
d) 0
- (48) What will be the output of the following Python code? `x = ['ab', 'cd'] for i in x: i.upper() print(x)`
- a) ['AB', 'CD']
c) ['ab', 'cd']
- b) ['ab', 'cd', 'AB', 'CD']
d) none of the mentioned
- (49) Which one of the following is not a package used in python?
- a) matplotlib
c) numpy
- b) pandas
d) sipy
- (50) What will be the output of the following Python code? `i = 1 while True: if i%2 == 0: break print(i) i += 2`
- a) 1
c) 1 2 3 4 5 6 ...
- b) 1 2
d) 1 3 5 7 9 11
- (51) Which of the following is not a keyword in Python?
- a) eval
c) assert
- b) nonlocal
d) pass
- (52) Which of the following is true about the variable names in case of Python?
- a) unlimited length
c) underscore and ampersand are the only two special characters allowed
- b) Python variable name is not required to give
d) all private members must have leading and trailing underscores
- (53) Which of these in not a core data type?
- a) list
c) array
- b) tuple
d) Class
- (54) This set of Python Multiple Choice Questions & Answers (MCQs) focuses on "Dictionaries". 1. Which of the following statements create a dictionary?
- a) `d = {}`
c) `d = {40:"john", 45:"peter"}`
- b) `d = {"john":40, "peter":45}`
d) All of the mentioned
- (55) Using which function we can change the shape of numpy array in python?

a) Shape()

b) reshape()

c) old()

d) change()

(56) How we can find the array type in python?

a) dtype

b) type

c) type(array)

d) itype

(57) Strength of signal doesn't depend upon which of the following factors?

a) Energy flux

b) Dwell time

c) Altitude

d) Reflection

(58) Which of the following method creates a new array object that looks at the same data?

a) View

b) Copy

c) Paste

d) None of these

(59) Which of the following library is similar to Pandas?

a) Numpy

b) Rpy

c) Scipy

d) matplotlib

(60) What will be the output of the following Python function? all([2,4,0,6])

a) False

b) 1

c) 0

d) True