

**MASTER OF COMPUTER APPLICATION
FOURTH SEMESTER (SPECIAL REPEAT)
INTERNET OF THINGS
MCA-403**

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

(Objective)

Marks: 20

Choose the correct answer from the following:

1 × 20 = 20

1. The Blue tooth device comes under the following:
a. WAN
b. MAN
c. LAN
d. PAN
2. IoT-A stands for.....
a. Internet of Things Architecture
b. Internet of Things Area
c. Industrial of things Arrangements
d. Internet of Things Address
3. What is the full form of DHCP in IoT communication protocols?
a. Domain Host Communication Protocol
b. Dynamic Host Communication Protocol
c. Domain Host Control Protocol
d. Dynamic Host Control Protocol
4.is a community that is working together to establish an IoT architecture.
a. Intercloud
b. Red Hat
c. Eclipse IoT
d. Bot 2 Bot
5. The data is associated with an IoT device:
a. Internet
b. Cloud
c. Network connection
d. Wireless
6. The security mechanism used in WiFi is:
a. WPA
b. HTTP
c. MLA
d. None of these
7. The CGI stands for:
a. Common Gateway of Interest
b. Common Gate Interval
c. Common Gateway Interdependent
d. None
8. The communication network in M2M can be used in:
a. Wireless medium
b. Wired medium
c. Both
d. None
9. M2M applications would usefor storage and analysis.
a. Cloud
b. Local Machine
c. Both
d. None
10. To enable the communication between remote M2M area networks..... devices are used.
a. Sensors
b. Routers
c. Switches
d. Gateways

11. IoT application in agriculture:
 - a. Online crop sales platform
 - b. Farm management software
 - c. Smart irrigation system
 - d. Weather forecasting app
12. A request from client is basically made of.....
 - a. Method
 - b. Task
 - c. Signal
 - d. Event
13. 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
14.is a community that is working together to establish an IoT architecture.
 - a. Eclipse IoT
 - b. Red Hat
 - c. Intercloud
 - d. Bot 2 Bot
15. Gateway provides the connection between..... and.....
 - a. Controller and device
 - b. Network and Controller
 - c. Network and Cloud
 - d. Cloud and Controller
16. Which one is not the component of IoT Security Architecture?
 - a. Secure Communication
 - b. Cross-site scripting
 - c. Two-factor authentication
 - d. None of them
17. What role of the cloud in smart grid architecture is?
 - a. Collect the data
 - b. Secure the data
 - c. Manage the data
 - d. None of them
18. The Arduino board is called as:
 - a. Micro controller
 - b. Micro processor
 - c. Timer
 - d. None of the above
19.is the language used by the Arduino IDE to code easily.
 - a. C
 - b. C++
 - c. Java
 - d. Python
20. If the voltage is greater than, then the Arduino will destroy.
 - a. 10
 - b. 20
 - c. 30
 - d. 40

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(Descriptive)

Time : 2 hr. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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| 1. Define IoT. Explain Sensor, Controller & Actuators. | 2+8=10 |
| 2. a) What do you mean by networks?
b) Explain different types of Networks in detail. | 2+8=10 |
| 3. Explain the OSI layer model in IoT with suitable diagram. | 10 |
| 4. What is the concept of M2M? Explain how it varies from IoT. | 10 |
| 5. How to design IoT Architecture? Explain the principles in detail. | 5+5=10 |
| 6. What is the sensor in IoT Devices? Explain its roles and functions. | 2+8=10 |
| 7. a) What impact could IPv6 have on IoT?
b) How can edge computing benefit IoT? | 5+5=10 |
| 8. a) Explain Various Applications of IoT in detail.
b) What are some of the biggest security vulnerabilities that come with IoT? | 5+5=10 |

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