MANGALMAY

INSTITUTE OF MANAGEMENT TECHNOLOGY

CERTIFICATION PROGRAMME

On

Introduction of IoT

From

13th March - 2nd June 2023

Convener: Mr. Abhay N Tripathi, Associate Professor, MIMT

For BCA IVth Semester

Resource Person

Ms. Soniya Sharma
Assistant Professor, MIMT

Syllabus Introduction of IoT

Duration: 33 Hour

MODULE-1:INTRODUCTIONTOIoT:

Introduction to IoT, Characteristics of IoT, History of IoT, Applications of IoT, Challenges in IoT, advantages &disadvantages.

MODULE-2:DESIGNING

Architectureof IoT,Physical design of IoT,Logical design of IoT, Functional blocks of IoT.

MODULE-3:MODELS

Communicationmodels&APIs,M2MMachinetoMachine,DifferencebetweenIoTandM2M,Softwaredefines Network.

MODULE-4:NETWORKANDCOMMUNICATIONASPECTS

Wirelessmediumaccessissues,MACprotocolsurvey,Surveyroutingprotocols,Sensordeployment&Node discovery,Dataaggregation&dissemination.

MODULE-5:IoTENABLINGTECHNOLOGIES

WebofThingsvs.Internetofthings,WirelessSensorNetwork,Cloudofthings: CloudComputing,BigDataAnalytics.

Schedule

Duration:33hours			
Session	**Content**	**Time**	**Date**
1	Introduction	03:00-4:30	13-Mar-23
2	Characteristics ofIoT, History of IoT	03:00-4:30	15-Mar-23
3	Applications of IoT, Challenges of IoT	03:00-4:30	20-Mar-23
4	Advantages & Disadvantages of IoT	03:00-4:30	22-Mar-23
5	Architecture of IoT	03:00-4:30	27-Mar-23
6	Physical design ofIoT	03:00-4:30	29-Mar-23
7	Logical design of IoT	03:00-4:30	03-Apr-23
8	Functional blocks of IoT	03:00-4:30	05-Apr-23
9	Communication models & APIs	03:00-4:30	10-Apr-23
10	M2M Machine to Machine, Difference between IoT and M2M	03:00-4:30	12-Apr-23
11	Software define Network	03:00-4:30	17-Apr-23
12	Wireless medium access issues	03:00-4:30	19-Apr-23
13	MAC protocol survey, Survey routing protocols, Sensor deployment&Node discovery	03:00-4:30	24-Apr-23
14	Data aggregation &dissemination, Web of Things vs. Internet of things	03:00-4:30	26-Apr-23
15	Wireless Sensor Network, Cloud of things: Cloud Computing	03:00-4:30	1-May-23
16	Big Data Analytics	03:00-4:30	3-May-23
17	Web of Things vs. Internet of things	03:00-4:30	8-May-23
18	Wireless Sensor Network	03:00-4:30	10-May-23
19	Cloud of things: Cloud Computing	03:00-4:30	15-May-23
20	Big Data AnalyticsVs Cloud Computing	03:00-4:30	22-May-23
21	Revision	03:00-4:30	24-May-23
22	Doubt Session	03:00-4:30	02-June-23

	Report
NameofActivity	Introduction of IoT
Date	13th March 2023 to 2nd June 2023
Venue	BCAClassroom
Organizedby	ComputerApplicationDepartment
ResourcePerson	Ms.Soniya Sharma,Assistant Professor, MIMT
Beneficiaries	BCA4th Semester(76 Students)
Coordinator	Mr. Abhay N Tripathi,Associate Professor, MIMT
Objective	Theaimofthiscertificationcourseistomake : • Students learn about the future networking trend and help to drive the third wave of the IT industry revolution. • To transform life in a smart and timely manner by enabling things to communicate with other objects, such as machines, and everything in general with people.
Content	Mangalmay Institute of Management and Technology organized an add-on certification course on Internet of Things with the help of IQAC. Day1:The session began with an overview of IOT. Day2:The lecture introduced the characteristics of IoT as well as the history ofIoT. Day3:The resource persons began the discussion by discussing the application ofIoT and the challenges of IoT. Day4: InthissessionThe resource person discussed the benefits and drawbacks of IoT. Day5: The resource persons discussed the architecture of IoT . Day6: The resource persons was introduced the Physical design of IoT. Day7: The session was interesting since students learned about IoT logical design. Day8: In this Session ,The function block of IoT was taught. Day 9: The student learned about communication paradigms and APIs. Day 10: The Resource person was taught M2M i.e. Machine to Machine and explained the distinction between IoT and M2M. Day 11: In this session, Resource personwas taught Software define network in the classroom. Day12:Inthissession,theresourcepersondiscussesthewirelessmediumaccessissues Day13:MACprotocolsurvey, Survey routing protocols, Sensor deployment&Node discovery taughtinthe classroom. Day 14: In this session, data aggregation and dissemination was taught. Day 15:The discussion was on the wireless sensor network. The session was about the cloud of things. i.e Cloud Computing. Day 16: This session was about Big Data Analytics. Day17:The Resources Person was discussed the Web of Things vs. Internet of things Day 18:The student learned about Wireless Sensor Network. Day 19: The student became acquainted with the Cloud of Things: Cloud Computing. Day 20: The student learned about Big Data Analytics Vs Cloud Computing Day 21: In this Session , The resources Person was taken the revision class. Day 22: In this Session , The resources Person was taken theDoubt Session

Outcome ofActivity	- Having a basic understanding of how to develop an electronic device so that it may be used with the internet to create an IoT device. - It may be programmed to alert the user if a dangerous action takes place in the residence, making it a useful security tool as well.

ResourcePersonProfile

Name: Ms. Soniya Sharma, Assistant Professor
Org:MIMT,GreaterNoida
ResearchArea: Artificial IntelligenceandMachine Learning
Core Skills: Python, Machine Learning, IOT, DBMS, Data Structure, Operating System
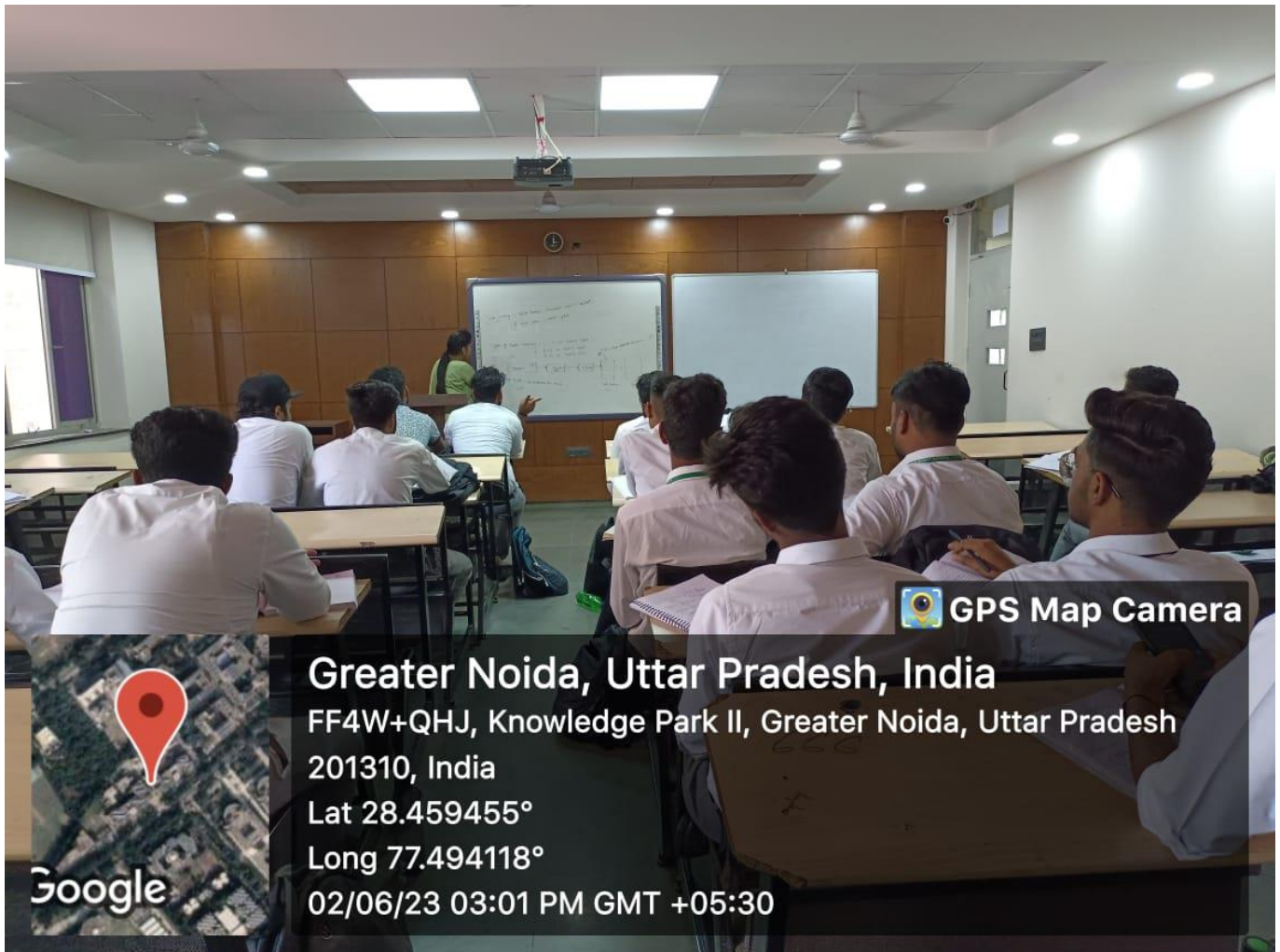**Qualification:**MCA, M. Tech, NET Qualified
Experience:1.5years

Fig 1: Ms. Soniya Sharma during Lecture.

Mangalmay Institute of Management Technology
Greater Noida (U.P.)

CertificateTemplate

MANGALMAY
INSTITUTE OF MANAGEMENT TECHNOLOGY
Gr. NOIDA

CERTIFICATE OF COURSE COMPLETION

This is to certified that **Aashish Kumar** student of BCA **(Batch: 2021-24)** has successfully completed **33 Hours** course on **"Introduction to IoT"** from **13-March-2023** to **02-June-2023**

PRINCIPAL
Mangalmay Institute of
Management & Technology

CONVENER
Mangalmay Institute of
Management Technology

Course: BCA

ADD-ON COURSE QUIZ
Course Name: Introduction to IoT

Time: 30 Min
Date: 08/06/2023

Roll No: Name: Kunwar Pal   Year/Sem: II/IV

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

1) What is the full form of IoT?

   a.) Internet of Technology   b.) Incorporate of Things   (1)

   c.) Internet of Things   d.) Incorporate of Technology

2) Who coined the term IoT?

   a.) Kevin Ashton   b.) John Wright   (1)

   c.) Edward Jameson   d.) George Garton

3) When was the actual term "Internet of Things" coined?
   a.) 1998   b.) 1999   (1)

   c.) 2000   d.) 2002

4) Arduino UNO is a hardware device.

   a.) True   b.) False   (1)

5) Which of the following command is used to trigger the Amazon echo IOT device?

   a.) Hello   b.) Suri   (1)

   c.) Alexa   d.) Hey

6) Which of the following is not an application of IoT?

   a.) Wearable   b.) Smart Grid   (1)

   c.) Arduino   d.) Smart City

7) What is the full form of the MQTT?

   a.) Multi-Queue Telemetry Things   b.) Multiple Queue Telemetry Things

   c.) Message Queue Telemetry Things d.) Multi-Queue Telemetry Transport

8) WoT stands for

   a.) Web of Technology   b.) World of Technology   (1)

   c.) World of War   d.) Web of Things

9) Identify the language preferred for IoT analytics.

   a.) HTML   b.) Python   (1)

   c.) PHP   d.) C++

10) Identify among the following which is not an IoT platform.

   a.) Salesforce   b.) AWS   (1)

   c.) Microsoft Azure   d.) Flipkart

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

a.) Internet   b.) Cloud ①

c.) Automata   d.) Network

12) An IoT network is a collection of _____ devices.

a.) Signal   b.) Machine to Machine

c.) Interconnected   d.) Network to Network

13) LAN stands for

a.) Local Area Network   b.) Limited Area Network ①

c.) Local Area Next   d.) None of these

14) What is the role of Big Data in IoT's Smart Grid architecture?

a.) Filter the data   b.) Locked the data ①

c.) Store the data   d.) None of these

15) WSN:

a.) Wired Sensor Network   b.) Wireless Sensor Network ①

c.) Both   d.) None

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Max. Marks: 15   **Marks Obtained:** 15

Name of Evaluator: **Sign.**

MS Soniya Sharma

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Course: BCA

ADD-ON COURSE QUIZ
Course Name: Introduction to IoT

Time: 30 Min
Date: 8\6\23

Roll No:

Name: Arvind

Year/Sem: II/IV

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

1) What is the full form of IoT?
   a.) Internet of Technology
   b.) Incorporate of Things
   c.) Internet of Things
   d.) Incorporate of Technology

2) Who coined the term IoT?
   a.) Kevin Ashton
   b.) John Wright
   c.) Edward Jameson
   d.) George Garton

3) When was the actual term "Internet of Things" coined?
   a.) 1998
   b.) 1999
   c.) 2000
   d.) 2002

4) Arduino UNO is a hardware device.
   a.) True
   b.) False

5) Which of the following command is used to trigger the Amazon echo IOT device?
   a.) Hello
   b.) Suri
   c.) Alexa
   d.) Hey

6) Which of the following is not an application of IoT?
   a.) Wearable
   b.) Smart Grid
   c.) Arduino
   d.) Smart City

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

8) WoT stands for
   a.) Web of Technology
   b.) World of Technology
   c.) World of War
   d.) Web of Things

9) Identify the language preferred for IoT analytics.
   a.) HTML
   b.) Python
   c.) PHP
   d.) C++

10) Identify among the following which is not an IoT platform.
    a.) Salesforce
    b.) AWS
    c.) Microsoft Azure
    d.) Flipkart

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

a.) Internet   b.) Cloud

c.) Automata   d.) Network

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c.) Interconnected   d.) Network to Network

13) LAN stands for

a.) Local Area Network   b.) Limited Area Network

c.) Local Area Next   d.) None of these

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c.) Store the data   d.) None of these

15) WSN:

a.) Wired Sensor Network   b.) Wireless Sensor Network

c.) Both   d.) None

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Max. Marks: 15   Marks Obtained: 12

Name of Evaluator: Sign.

MS Soniya Sharma

Course: BCA

ADD-ON COURSE QUIZ
Course Name: Introduction to IoT

Time: 30 Min
Date: 28\6\23

Roll No:
Name: Deepanshu
Year/Sem: II/IV

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

1) What is the full form of IoT?

 a.) Internet of Technology
 b.) Incorporate of Things

 c.) Internet of Things
 d.) Incorporate of Technology

2) Who coined the term IoT?

 a.) Kevin Ashton
 b.) John Wright

 c.) Edward Jameson
 d.) George Garton

3) When was the actual term "Internet of Things" coined?
 a.) 1998
 b.) 1999

 c.) 2000
 d.) 2002

4) Arduino UNO is a hardware device.
 a.) True
 b.) False

5) Which of the following command is used to trigger the Amazon echo IOT device?

 a.) Hello
 b.) Suri

 c.) Alexa
 d.) Hey

6) Which of the following is not an application of IoT?
 a.) Wearable
 b.) Smart Grid

 c.) Arduino
 d.) Smart City

7) What is the full form of the MQTT?
 a.) Multi-Queue Telemetry Things
 b.) Multiple Queue Telemetry Things

 c.) Message Queue Telemetry Things
 d.) Multi-Queue Telemetry Transport

8) WoT stands for

 a.) Web of Technology
 b.) World of Technology

 c.) World of War
 d.) Web of Things

9) Identify the language preferred for IoT analytics.

 a.) HTML
 b.) Python

 c.) PHP
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10) Identify among the following which is not an IoT platform.

 a.) Salesforce
 b.) AWS

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 d.) Flipkart

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

a.) Internet   b.) Cloud

c.) Automata   d.) Network

12) An IoT network is a collection of _____ devices.

a.) Signal   b.) Machine to Machine

c.) Interconnected   d.) Network to Network

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a.) Local Area Network   b.) Limited Area Network

c.) Local Area Next   d.) None of these

14) What is the role of Big Data in IoT's Smart Grid architecture?

a.) Filter the data   b.) Locked the data

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15) WSN:

a.) Wired Sensor Network   b.) Wireless Sensor Network

c.) Both   d.) None

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Max. Marks: 15   Marks Obtained: 14

Name of Evaluator: Sign.

Ms Soniya shoma

Course: BCA | **ADD-ON COURSE QUIZ** | Time: 30 Min

Course Name: Introduction to IoT | Date: 08|06|23

Roll No: | Name: Nubanita Paul | Year/Sem: II/IV

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

1) What is the full form of IoT?

   a.) Internet of Technology b.) Incorporate of Things

   c.) Internet of Things d.) Incorporate of Technology

2) Who coined the term IoT?

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3) When was the actual term "Internet of Things" coined?

   a.) 1998 b.) 1999

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4) Arduino UNO is a hardware device.

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6) Which of the following is not an application of IoT?

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14) What is the role of Big Data in IoT's Smart Grid architecture?

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c.) Store the data   d.) None of these

15) WSN:

a.) Wired Sensor Network   b.) Wireless Sensor Network ①

c.) Both   d.) None

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Course: BCA

ADD-ON COURSE QUIZ
Course Name: Introduction to IoT

Time: 30 Min
Date: 08|6|23

Roll No: Name: Shivam   Year/Sem: II/IV

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

1) What is the full form of IoT?
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   c.) Internet of Things
   b.) Incorporate of Things
   d.) Incorporate of Technology

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   b.) John Wright
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   b.) Suri
   d.) Hey

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   c.) Arduino
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   b.) World of Technology
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9) Identify the language preferred for IoT analytics.
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c.) Both
d.) None

Course: BCA

ADD-ON COURSE QUIZ
Course Name: Introduction to IoT

Time: 30 Min
Date: 08|06|23

Roll No: Name: Yugal Chahi   Year/Sem: II/IV

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

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   c.)   Internet of Things   d.)   Incorporate of Technology

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   a.)   Kevin Ashton   b.)   John Wright

   c.)   Edward Jameson   d.)   George Garton

3)   When was the actual term "Internet of Things" coined?
   a.)   1998   b.)   1999

   c.)   2000   d.)   2002

4)   Arduino UNO is a hardware device.

   a.)   True   b.)   False

5)   Which of the following command is used to trigger the Amazon echo IOT device?

   a.)   Hello   b.)   Suri

   c.)   Alexa   d.)   Hey

6)   Which of the following is not an application of IoT?

   a.)   Wearable   b.)   Smart Grid

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     c.) Both   d.) None ①

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Max. Marks: 15   Marks Obtained: 10

Name of Evaluator: Sign.

Ms Soniya Sharma

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Course: BCA

ADD-ON COURSE QUIZ
Course Name Introduction to IoT

Time: 30 Min
Date: 08/6/23

Roll No:
Name: Rahul
Year/Sem: II/IV

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

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Max. Marks: 15   **Marks Obtained:** 10

Name of Evaluator: **Sign.**

Ms Soniya Sharma

Course: BCA

ADD-ON COURSE QUIZ
Course Name: Introduction to IoT

Time: 30 Min
Date: 8|06|2023

Roll No: Name: Preeti Pundhir   Year/Sem: II/IV

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

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   c.) Internet of Things
   d.) Incorporate of Technology

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   c.) Edward Jameson
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Mangalmay Institute of Management Technology
Greater Noida (U.P.)

Course: BCA

ADD-ON COURSE QUIZ
Course Name: Introduction to IoT

Time: 30 Min
Date: 08|6|23

Roll No:
Name: Tanvi Singh

Year/Sem: II/IV

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

1) What is the full form of IoT?
   - a.) Internet of Technology
   - b.) Incorporate of Things
   - c.) Internet of Things
   - d.) Incorporate of Technology

2) Who coined the term IoT?
   - a.) Kevin Ashton
   - b.) John Wright
   - c.) Edward Jameson
   - d.) George Garton

3) When was the actual term "Internet of Things" coined?
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   - b.) 1999
   - c.) 2000
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4) Arduino UNO is a hardware device.
   - a.) True
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   - d.) Hey

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   - c.) Arduino
   - d.) Smart City

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   - a.) Web of Technology
   - b.) World of Technology
   - c.) World of War
   - d.) Web of Things

9) Identify the language preferred for IoT analytics.
   - a.) HTML
   - b.) Python
   - c.) PHP
   - d.) C++

10) Identify among the following which is not an IoT platform.
    - a.) Salesforce
    - b.) AWS
    - c.) Microsoft Azure
    - d.) Flipkart

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

a.) Internet   b.) Cloud ①

c.) Automata   d.) Network

12) An IoT network is a collection of _____ devices.

a.) Signal   b.) Machine to Machine ①

c.) Interconnected   d.) Network to Network

13) LAN stands for

a.) Local Area Network   b.) Limited Area Network ①

c.) Local Area Next   d.) None of these

14) What is the role of Big Data in IoT's Smart Grid architecture?

a.) Filter the data   b.) Locked the data ✗

c.) Store the data   d.) None of these

15) WSN:

a.) Wired Sensor Network   b.) Wireless Sensor Network ①

c.) Both   d.) None

--------------------- For Departmental use only --------------------------

Course: BCA

ADD-ON COURSE QUIZ
Course Name: Introduction to IoT

Time: 30 Min
Date: 8|6|23

Roll No:
Name: Shubham
Year/Sem: II/IV

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

1) What is the full form of IoT?

   a.) Internet of Technology   b.) Incorporate of Things

   c.) Internet of Things   d.) Incorporate of Technology

2) Who coined the term IoT?

   a.) Kevin Ashton   b.) John Wright

   c.) Edward Jameson   d.) George Garton

3) When was the actual term "Internet of Things" coined?

   a.) 1998   b.) 1999

   c.) 2000   d.) 2002

4) Arduino UNO is a hardware device.

   a.) True   b.) False

5) Which of the following command is used to trigger the Amazon echo IOT device?

   a.) Hello   b.) Suri

   c.) Alexa   d.) Hey

6) Which of the following is not an application of IoT?

   a.) Wearable   b.) Smart Grid

   c.) Arduino   d.) Smart City

7) What is the full form of the MQTT?

   a.) Multi-Queue Telemetry Things   b.) Multiple Queue Telemetry Things

   c.) Message Queue Telemetry Things   d.) Multi-Queue Telemetry Transport

8) WoT stands for

   a.) Web of Technology   b.) World of Technology

   c.) World of War   d.) Web of Things

9) Identify the language preferred for IoT analytics.

   a.) HTML   b.) Python

   c.) PHP   d.) C++

10) Identify among the following which is not an IoT platform.

   a.) Salesforce   b.) AWS

   c.) Microsoft Azure   d.) Flipkart

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

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Max. Marks: 15   Marks Obtained: 14

Name of Evaluator: Sign.

Ms Soniya Sharma

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