





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

www.mangalmay.net.in | Plot No. 8 & 9, Knowledge Park-II, Greater Noida, Delhi-NCR, India



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

NAAC

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,DifferencebetweenIoTandM 2M,Softwaredefines Network.

MODULE-4:NETWORKANDCOMMUNICATIONASPECTS

Wirelessmediumaccessissues, MACprotocolsurvey, Surveyroutingprotocols, Sensordeploy ment&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 of IoT, 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 Analytics Vs 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	



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



	Report				
NameofActivity	Introduction of IoT				
Date	13th March 2023 to 2 nd 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 . 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,theresourcepersondiscussesthewirelessmediumaccessissue s Day13:MACprotocolsurvey, Survey routing protocols, Sensor deployment&Node discovery taughtinthe classroom. Day 14: In this session 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 19: The student learned about Wireless Sensor Network. Day 19: 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 the revision class. Day 22: In this Session , The resources Person was taken the revision class.				

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



Mangalmay Institute of Management Technology

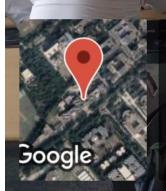
Greater Noida (U.P.)

NAAC

💽 GPS Map Camera

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



Greater Noida, Uttar Pradesh, India FF4W+QHJ, Knowledge Park II, Greater Noida, Uttar Pradesh 201310, India Lat 28.459455° Long 77.494118° 02/06/23 03:01 PM GMT +05:30

Fig 1: Ms. Soniya Sharma during Lecture.



C.	DO				
Cou	irse: BCA	ADD-ON COU Course Name: Int		Time: 30 Min Date: 08 \ 06 2013	il
Roll Note	l No: :: All questions are	Name: Lunic compulsory. Each questio	on Will carry 'l' ma	Year/Sem: II/IV ark and there is no 'Negative Marking'	V
)	What is the full	form of IoT?			
	a.) Internet of	Technology	b.)	Incorporate of Things	
	.e.,) Internet of	Things	d.)	Incorporate of Technology	
2)	Who coined the	term IoT?		\sim	
÷,	Ar Kevin Ash	ton	b.)	John Wright	
	c.) Edward Ja	meson	d.)	George Garton	
3)	When was the a a.) 1998	ctual term "Internet of]	? [hings" coined لبل	1999	
	c.) 2000		d.)	2002	
4)	Arduino UNO i	s a hardware device.	b.) False	Ð	
5)	Which of the fo	llowing command is use	ed to trigger the A	Amazon echo IOT device?	
	a.) Hello		b.)	Suri	
	Alexa		d.)	Hey	
6)	Which of the fo	llowing is not an applica	ation of IoT?		
-	a.) Wearable		b.)	Smart Grid	
	Arduino (جری		d.)	Smart City	
7)	What is the full	form of the MQTT?	,		
	a.) Multi-Que	ue Telemetry Things	b.)	Multiple Queue Telemetry Things	;
	c.) Message (Queue Telemetry Things	· -t.)	Multi-Queue Telemetry Transport	
3)	WoT stands for				
	a.) Web of Te	chnology	b.) World	of Technology	
	c.) World of V			f Things	
))		guage preferred for IoT			
~)	identify the fall	Sauge preferred for for		A	
	a.) HTML		برطر Pythor		
	c.) PHP		d.) C++		
0)	Identify among	the following which is	not an IoT platfe	orm.	
	a.) Salesforc	e	b.) AWS	$\langle 1 \rangle$	
	c.) Microsof	t Azure	Flipk ل	art	
(1)			•	ce is associated with data?	

	. a.)	Internet		- b .)	Cloud
	c.)	Automata		d.)	Network
12)	An I	oT network is a collection of	of	devices	
	a.)	Signal		b.)	Machine to Machine)
		Interconnected		d.)	Network to Network
13)		stands for			
	a	Local Area Network		b.)	Limited Area Network
	c.)	Local Area Next		d.)	None of these
14)	Wha	t is the role of Big Data in I	oT's Smar	t Grid a	architecture?
	a.)	Filter the data		b.)	Locked the data
	مربح.	Store the data		d.)	None of these
15)	WSN				None of these
	a.)	Wired Sensor Network		4.)	Wireless Sensor Network
	c.)	Both		d.)	None
		Fo	r Departn	iental i	ise only
					abe only

Max. Marks: 15

Marks Obtained: 15

Name of Evaluator: MS Soniye Sharma

Sign. Home

A.	Mangalmay Institute of Mar Greater Noida (U	nagement Technology
Co	Course: BCA ADD-ON COURSE Q Course Name: Introduction	UIZ Time: 30 Min on to IoT Date: 816123 Year/Sem: II/IV
Ro Not	Roll No: Name: Anima ote: All questions are compulsory. Each question will c	arry '1' mark and there is no 'Negative Marking'
1)) What is the full form of IoT?	(F)
	Internet of Technology b.)	Incorporate of Things
	Internet of Things d.)	Incorporate of Technology
2)	2) Who coined the term IoT?	
í	Kevin Ashton b.)	John Wright
	c.) Edward Jameson d.)	George Garton
3)	1	
	a.) 1998	N
	c.) 2000 d.)) 2002
4)	جع True	False
5)	5) Which of the following command is used to tr	igger the Amazon echo IOT device?
	a.) Hello	Suri
	c.) Alexa d.)) Hey
6)	6) Which of the following is not an application o	
	a.) Wearable b.) Smart Grid
	-e. Arduino d.) Smart City
7)	7) What is the full form of the MQTT?	
	a.) Multi-Queue Telemetry Things b.	
	c.) Message Queue Telemetry Things جلمي	Multi-Queue Telemetry Transport
8)	3) WoT stands for	
	a.) Web of Technology b.) World of Technology
	c.) World of War) Web of Things
9)		ics.
	a.) HTMI	
	d d) Python $($
10	•·· PHP	, C++
10	h	
	a., Salesforce	AWS
	 c.) Microsoft Azure 1) Which of the following is the way in which ar 	Flipkart
11	1) Which of the following is the way in which ar	TOT device is associated with data?

	a.)	Internet	b.)	Cloud A	
	.c.)	Automata	d.)	Network	
12)	An I	oT network is a collect	ion of device	es.	
	a.)	Signal	b.)	Machine to Machine	
	c.)	Interconnected	dit	Network to Network	
13)	LAN	stands for			
	-it-)	Local Area Network	b.)	Limited Area Network	
	c.)	Local Area Next	d.)	None of these	
14)	Wha	t is the role of Big Data	in IoT's Smart Grid	architecture?	
	a.)	Filter the data	-6.7	Locked the data	
	c.)	Store the data	d.)	None of these	
15)	WSN	1:			
	a.)	Wired Sensor Netwo	ork .)	Wireless Sensor Network	
	c.)	Both	d.)	None	
		· · · · ·	For Departmental	use only	•
	Ma	x. Marks: 15	Marks O	btained: 12	
	Nar	ne of Evaluator:	Sign.	Here	

Mame of Evaluator: MS Soniyer Shorma

Mangalmay Institute of Management Technology Greater Noida (U.P.) Course: BCA Time: 30 Min ADD-ON COURSE QUIZ Date: 08 6 23 Course Name: Introduction to IoT Year/Sem: II/IV **Roll No:** Name: Deepenshu Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking' What is the full form of IoT? 1) Incorporate of Things Internet of Technology a.) b.) Incorporate of Technology Internet of Things d.) 2) Who coined the term IoT? John Wright A. Kevin Ashton b.)

d.)

d.)

George Garton

2002

Smart Grid

Smart City

Multi-Queue Tele

Multiple Queue Telemetry Things

ransport

c.) Edward Jameson

2000

c.)

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.) Hel	lo	b.)	Suri
c.) Ale	xa ·	d.)	Hey

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

- Arduino d.)
- 7) What is the full form of the MQTT?a.) Multi-Queue Telemetry Things
 - a.) Multi-Queue Telemetry Thingsb.)c.) Message Queue Telemetry Things -d.)
- 8) WoT stands for

c.)

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	-4.)	Python
c.)	PHP	d.)	C++
	10 1 0	11 · · · · · · · · · · · · · · · · · ·	T 1.46

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

a.) Salesforce b.) AWS

d Flipkart Microsoft Azure

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

		ernet	-0.5	Cloud
	c.) Au	tomata	d.)	Network
12)	An loT n	etwork is a collection o	f device	
	a.) Sig	nal	-6.7	Machine to Machine 👃
	c.) Inte	rconnected	d.)	Network to Network
	LAN star	nds for		
	a.) Loc	al Area Network	b.)	Limited Area Network
	c.) Loc	cal Area Next	d.)	None of these
14)	What is t	he role of Big Data in Id	oT's Smart Grid	architecture?
	a.) Filt	ter the data	b.)	Locked the data
	Sto	re the data	d.)	None of these
15)	WSN:			
	a.) Wi	red Sensor Network	-tr.)	Wireless Sensor Network
	c.) Bot	h	d.)	None
		2		

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Max. Marks: 15

Marks Obtained: 14

Name of Evaluator:

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Ms Soniya shoma

-	Mangalmay I	nstitute of M Greater Noida		ent Technol	logy	
Cou	ırse: BCA	ADD-ON COURSI ourse Name: Introdu			30 Min 98 06 2-3	Q
Rol Note	l No: e: All questions are compulse	Name: Nobanita	ill carry '1' ma		Sem: II/IV • 'Negative Marking'	1911
1)	What is the full form of	loT?				
	Internet of Technol	ogy	b.)	Incorporate of	Things	
			d.)	Incorporate of	Technology	
2)	Who coined the term Io7	?				
			b.)	John Wright	A	
	c.) Edward Jameson		d.)	George Garton	U	
3)	When was the actual terr a.) 1998		gs" coined? セ.)	1999	ED .	
	c.) 2000		d.)	2002	\bigcirc	
4)	Arduino UNO is a hardw	vare device.	b.) False	Ð		
5)	Which of the following of	command is used to	trigger the A	mazon echo IO	T device?	
	a.) Hello	1-	t.)	Suri	2	
	c.) Alexa		d.)	Hey	The I'm Rought	
6)	Which of the following i	s not an applicatior	n of IoT?			
	a.) Wearable		b.)	Smart Grid	()	
	Arduino		d.)	Smart City		
7)	What is the full form of					
	a.) Multi-Queue Telen		b.)	•	e Telemetry Things	
	c.) Message Queue Te	lemetry Things -	et.)	Multi-Queue T	elemetry Transport	
8)	WoT stands for				· · · ·	
	a.) Web of Technology	,	b.) World	of Technology	$\overline{\mathcal{D}}$	
	c.) World of War	-	t.) Web of	f Things	X)	
9)	Identify the language pro	ferred for IoT anal	ytics.			
	a.) HTMI		b.) Python		1	
			11	\mathcal{A}		
10)	c.) PHP Identify among the follo		C^{++}	rm.		
10)			1		2	
	Salestoree		AWS	0		
11)	Which of the following is	s the way in which	гпрка		vith data?	
11)	which of the following i					

	a.)	Internet	by	Cloud D
	c.)	Automata	d.)	Network
12)	An I	oT network is a collection of	devices	8.
	2.7	Signal	b.)	Machine to Machine 🕹
	e.)	Interconnected	d.)	Network to Network
13)	LAN	stands for		
	ar	Local Area Network	b.)	Limited Area Network
	.c.)	Local Area Next	d.)	None of these
14)	Wha	at is the role of Big Data in IoT's Sm	nart Grid a	architecture?
	<mark>a.)</mark>	Filter the data	_b.)	Locked the data
	c.)	Store the data	d.)	None of these
15)	WSI	N:		
	a.)	Wired Sensor Network	-b.)	Wireless Sensor Network
	c.)	Both	d.)	None
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Max. Marks: 15

Ms Son'ya shama

Marks Obtained: |)

Name of Evaluator:

Sign.

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	Greater Noid	la (0.P.)	
Cou	urse: BCA ADD-ON COUL Course Name: Intro		Time: 30 Min Date: 0816123
	I No: Name: Shivar e: All questions are compulsory. Each question		Year/Sem: II/IV mark and there is no 'Negative Marking'
)	What is the full form of IoT?		
	a.) Internet of Technology	b.)	Incorporate of Things
	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 Th a:) 1998	nings" coined? b.)	1999
	c.) 2000	d.)	2002
4)	Arduino UNO is a hardware device.	b.) False	
	이 것 같은 것 같아. 것 것 같아요. 이 것 같아.	<i>,</i>	
5)	Which of the following command is used		
	a.) Hello	b.)	Suri
	c) Alexa	d.)	Hey
6)	Which of the following is not an applicat a.) Wearable		Smort Crid
	a.) Wearable	b.) d.)	Smart Grid
7)	What is the full form of the MQTT?	d.)	Smart City
7)	a.) Multi-Queue Telemetry Things	b.)	Multiple Queue Telemetry Things
	c.) Message Queue Telemetry Things	d.)	Multi-Queue Telemetry Transport
3)	WoT stands for		Wall-Queue Telenary transport
	a.) Web of Technology	1	of Technology
	c.) World of War	a a la batilita	of Things
)	Identify the language preferred for IoT as	nalytics.	
	a.) HTML	-b.) Pythor	
	c.) PHP	d.) C++	N
0)	Identify among the following which is n	ot an IoT platfo	orm.
	a.) Salesforce	b) AWS	(\mathcal{A})
	c.) Microsoft Azure	d.) Flipk	art
1)	Which of the following is the way in whi		

اnternet (جھ	b.) Cloud
c.) Automata	d.) Network
12) An loT network is a collection of	_ devices.
a.) Signal	b.) Machine to Machine
Interconnected	d.) Network to Network \checkmark
13) LAN stands for	
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 Sm	art Grid architecture?
a.) Filter the data	b.) Locked the data
Store the data	d.) None of these
15) WSN:	
a.) Wired Sensor Network	Wireless Sensor Network
c.) Both	d.) None
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Max. Marks: 15	Marks Obtained: /1

Name of Evaluator:

Ms Soniya Shorma

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Co	urse: BCA	DSF OUTZ	Time: 30 Min
	ADD-ON COU Course Name: Int		Date: 0810612-3
	Il No: Name: Yugul te: All questions are compulsory. Each questio		Year/Sem: II/IV ark and there is no 'Negative Marking'
1)	What is the full form of IoT?		ана стана стана Стана стана стан
	a.) Internet of Technology	b.)	Incorporate of Things
	c.) Internet of Things	d.)	Incorporate of Technology
2)	Who coined the term IoT?		
	e.). Kevin Ashton	b.)	John Wright
	c.) Edward Jameson	d.)	George Garton
3)	When was the actual term "Internet of T a.) 1998	hings" coined?	1999
	c.) 2000	d.)	2002
4)	Arduino UNO is a hardware device.		
	a. True	b.) False	· ·
5)	Which of the following command is use	d to trigger the A	Amazon echo IOT device?
	a.) Hello	<u>(b.)</u>	Suri
	c.) Alexa	d.)	Hey
6)	Which of the following is not an applica	tion 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		f Things
9)	Identify the language preferred for IoT a		
	이 여러 집에 가지 않는다.		A
	a.) HTML	Python	XU
j.	c.) PHP	d.) C++	
10)	Identify among the following which is n	ot an IoT platfo	orm.
	a.) Salesforce	b) AWS	2
	c.) Microsoft Azure	d.) Flipka	ırt
1)	Which of the following is the way in whi	ch an IoT devic	e is associated with data?

	a.)	Internet	-b.)	Cloud
	c.)	Automata	d.)	Network
12)	An I	oT network is a collection of	devices	
	a.)	Signal	b.)	Machine to Machine
	en	Interconnected	d.)	Network to Network
13)	LAN	stands for		
	i)	Local Area Network	b.)	Limited Area Network
а Г	c.)	Local Area Next	d.)	None of these
14)	Wha	t is the role of Big Data in IoT's Sm	art Grid	architecture?
	<i>a.</i>)	Filter the data	b.)	Locked the data
	c.)	Store the data	d.)	None of these
15)	WSI	۷:		
	a.)	Wired Sensor Network	b.)	Wireless Sensor Network
	c.)	Both	d.)	None
		For Depar	tmental	use only
	Ma	ax. Marks: 15	Aarks Ol	otained: /D

Name of Evaluator:

MS Sonjyei Shama

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	Greater Noi	and form of	- 1
	urse: BCA ADD-ON COUL Course Name Intr Il No: Name: Robal	extraction to lot	Time: 30 Min Date: 5816123
Sec. 11.	t: All questions are compulsory. Each question		
1)	What is the full form of loT?		
	a) Internet of Technology	b.)	Incorporate of Things
	c.) Internet of Things	đ.)	Incorporate of Technology
2)	Who coined the term IoT?		
	ad Kevin Ashton	b.)	John Wright
	c.) Edward Jameson	d.)	George Garton
3)	When was the actual term "Internet of Th		
	1998	b.)	1999 2
	c.) 2000	d.)	2002
4)	Arduino UNO is a hardware device.		
	a.) True	-b.) False	2
5)	Which of the following command is used		
	a.) Hello	b.)	Suri
	Alexa	d.)	Hey
6)	Which of the following is not an applicat		6
	a.) Wearable	b.)	Smart Grid
-	Arduino	d.)	Smart Cíty
7)	What is the full form of the MQTT?a.) Multi-Queue Telemetry Things	b.)	Multiple Observe Tologram
		0.) 	Multiple Queue Telemons, Things
01	c.) Message Queue Telemetry Things WoT stands for	. .)	Multi-Queue Telemory Fransport
8)	wor stands for		
	a.) Web of Technology	b.) World	of Technology
	c.) World of War	-t. Web o	f Things
9)	Identify the language preferred for IoT and	nalytics.	
	a.) HTML	by not	6
	c.) PHP	d.) C++	N
10)	Identify among the following which is no	UTT	nn.
.~)			
	Salesforce	4100	\sim
	c.) Microsoft Azure Which of the following is the way in which	спрка	

12)	a.) c.) An I	Internet Automata oT network is a collection of	, d.) devices	Cloud Network
	a.)	Signal Interconnected stands for	b.) d.)	Machine to Machine Network to Network
14)	a) c.) Wha	Local Area Network Local Area Next t is the role of Big Data in IoT's Sma	b.) d.) art Grid a	Limited Area Network None of these architecture?
15)	a.) c.) WSN		ط.)	Locked the data None of these
	c.)	Wired Sensor Network Both	d .)	Wireless Sensor Network

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Max. Marks: 15

Marks Obtained: 10

Name of Evaluator:

Sign. 194

Ms Soniya Shama

Cou		DD-ON COURSE QUI rse Name: Introduction t		Time: 30 Min Date: 8/06/2023	For
	No: No: No All questions are compulsory	me: Poeek Pund hi . Each question will carry		Year/Sem: II/IV here is no 'Negative Mark	ing'
)	What is the full form of lo	Γ?			
	a.) Internet of Technolog	y b.)	Incorp	orate of Things	
	S.) Internet of Things	d.)	Incorp	orate of Technology)
2)	Who coined the term IoT?				
	a) Kevin Ashton	b.)	John V	Vright	
	c.) Edward Jameson	d.)	Georg	e Garton	
3)	When was the actual term	"Internet of Things" co			
	a.) 1998		1999	ED	
	c.) 2000	d.)	2002	X	
4)	Arduino UNO is a hardwar			~	
(True (,	b.) F	~	D	
5)	Which of the following con	mmand is used to trigge	er the Amazon	echo IOT device?	
	a.) Hello	b.)	Suri	D	
-	c.) Alexa	d.)	Неу		
6)	Which of the following is a	not an application of Io	Г?	\sim	
	a.) Wearable	b.)	Smart	Grid	
-	c.) Arduino	d.)	Smart	City	
7)	What is the full form of the	e MQTT?			
	a.) Multi-Queue Teleme	try Things b.)	Multip	le Queue Telemetry Thi	ings
	c.) Message Queue Tele	metry Things _d	Multi-	Queue Telemetry Trans	port
3)	WoT stands for				
	a.) Web of Technology	b.)	World of Tech	nology	
	c.) World of War		Web of Things		
))	Identify the language prefe		web of Things		
	2)	ht	•		
	a.) HTML	<i>(جمد</i> ۱۱	Python	D	
	c.) PHP	a.)	C++		
0)	Identify among the follow	ing which is not an lol	platform.		
	a.) Salesforce	لبط	AWS	T	
	c.) Microsoft Azure	d.)	Flipkart	rat	

	a.) Internet	- 0.)	Cloud
	c.) Automata	d.)	Network
12)	An loT network is a collection of	devices	s.
	a.) Signal	b.)	Machine to Machine
	e. Interconnected	d.)	Network to Network
13)	LAN stands for	<u>, </u>	
	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 Sma	art Grid	architecture?
	a.) Filter the data	b.)	Locked the data
	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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Sign.

Max. Marks: 15

Marks Obtained: 13

Name of Evaluator:

Ms Soniya Sharra

Mangalmay Institute of Management Technology

	Greater NOID	a (0.P.)	
Cou	rse: BCA ADD-ON COUR Course Name: Intro	SE QUIZ duction to IoT	Time: 30 Min Date: 0816123
Roll Note	No: Name: Tonvi All questions are compulsory. Each question	sigh will carry '1' ma	Year/Sem: II/IV urk 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 Th a.) 1998	ings" coined?	1999
	c.) 2000	d.)	2002
4)	Arduino UNO is a hardware device.		
	True (;	b.) False	1
5)	Which of the following command is used	to trigger the A	amazon echo IOT device?
	a.) Hello	b.)	Suri
	c.) Alexa	d.)	Hey
6)	Which of the following is not an applicati	on 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
	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	1	f Things
9)	Identify the language preferred for IoT ar	and the second of the	
	a.) UTMI	b)	
	HIML	b.) Python	번 성경·관철에 가지 하였다.
10)	PHP Identify among the following which is	d.) C++	R
10)	Identify among the following which is no	i i <mark>t</mark> a periodo de la	orm.
	a.) Salesforce	b.) AWS	FD
11	c.) Microsoft Azure	-d.) Flipka	art
11)	Which of the following is the way in which	ch an IoT devic	e is associated with data?

	a.) Internet	-0.)	Cloud
	c.) Automata	d.)	Network
12)	An loT network is a collection of	device	S.
	a.) Signal c.) Interconnected	b.) d.)	Machine to Maching
13)		d.)	Network to Network
	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 S	mart Grid	architecture?
	a.) Filter the data	-0.)	Locked the data
	c.) Store the data	d.)	None of these
15)	WSN:		1
	a.) Wired Sensor Network	(بط	Wireless Sensor Network
	c.) Both	d.)	None
	For Depa	artmental	use only
	Max. Marks: 15	Marks O	htained:

Name of Evaluator:

Sign.

MS Soniya Sharra

de la		e of Management Technology	
Cou		COURSE QUIZ Time: 30 Min e: Introduction to IoT Date: 8(6(23)	-fr
	l No: Name: Shu e: All questions are compulsory. Each qu	estion will carry '1' mark and there is no 'Negative Marking'	
1)	What is the full form of IoT?		
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	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		
	a.) 1998c.) 2000	d.) 2002	
4)	Arduino UNO is a hardware device		
4)	a.) True	b.) False	
5)	Which of the following command i	s used to trigger the Amazon echo IOT device?	
	a.) Hello	b.) Suri	
	Alexa	d.) Hey	
6)	Which of the following is not an ap	plication 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 Thing	s b.) Multiple Queue Telemetry Things	S
	c.) Message Queue Telemetry Th	ings d.) Multi-Queue Telemetry Transport	t
8)	WoT stands for		
	a.) Web of Technology	b.) World of Technology	
	c.) World of War	. Web of Things	
9)	Identify the language preferred for	IoT analytics.	
	a.) HTMI	At a D	
San give	111ML	d)	
10)	c.) PHP Identify among the following which	ch is not an IoT platform.	
10)		L)	
	Salestorce	AWS ~	
11)	c.) Microsoft Azure	d.) Flipkart n which an IoT device is associated with data?	
11)	which of the following is the way i	in which an lot device is associated with data?	

	a.) Internet	et.)	Cloud
	c.) Automata	d.)	Network
12)	An IoT network is a collection of	_ device	s.
	a.) Signal	b.)	Machine to Machine
		d.)	Network to Network
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	a.) Wired Sensor Network	-0.)	Wireless Sensor Network
	c.) Both	d.)	None

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Max. Marks: 15

Marks Obtained: | 4

Name of Evaluator:

Ms Soniya sharra

Sign.

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