University department of Information Technology and communication Technology

Academic Year -2023-2024- Part 2

I OT NETWORKING

Class: TY IT-Div1 &2

Date: 05.01.2024, 3 to 3.45 Pm

Time: 45 min.

Note: 1) Attempt any two

2) Each Question carries 5 marks

Class Test: CA1 Total Marks: 10

Class Test: CA1

Total Marks: 10

Attempt Any two	Difficulty level	CO
Q1. Explain in brief Arduino controller with neat sketch	Simple	1
Q2. How to prepare Arduino to connect with ethernet	Moderate	1
Explain with Ardunio Sketching. Q3. Write a program for Wi-Fi connectivity with Arduino for	Moderate	1
real time data transmission using C++ Q4. Write a Logic to read the data from DHT sensor in serial monitor on Arduino IDE	Moderate	1

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University department of Information Technology and communication Technology

Academic Year - 2023-2024- Part 2

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University Department of Information and Communication Technology Academic Year (2023-24) Part II

Class: TY (IT)

Class Test: CA1

Date:05/02/2024

Total Marks: 10

Time: 1 Hour

Subject: IOT COMMUNICATION

Note: 1) Attempt Any Two

2) Each Question is of 5 Marks

3) Rightly drawn Diagrams indicate full Marks

Attempt Any Two	Level	Co
1) Define Sensors and Actuators, also Differentiate the same	L	1
2) Explain any five Sensor Characteristics	L	1
3) Describe the Temperature Sensor in brief	М	1
4) Explain M2M Communication	М	1

University Department of Information and Communication Technology Academic Year (2023-24) Part II

Class: TY (IT)

Class Test: CA1

Date:05/02/2024

Total Marks: 10

Time: 1 Hour

Subject: IOT COMMUNICATION

Note: 1) Attempt Any Two

2)Each Question is of 5 Marks

3) Rightly drawn Diagrams indicate full Marks

Attempt Any Two	Level	Co
1) Define Sensors and Actuators, also Differentiate the same	Ĺ	1
2) Explain any five Sensor Characteristics	L	1
3) Describe the Temperature Sensor in brief	М	1
4)Explain M2M Communication	М	1

University Department of Information and Communication Technology

CA - I Examination - Feb - 2024

Class: T.Y. B. Tech AIML

Sem: VI

Test: CA-I

Subject Name: EL-II- Cyber Security & Computer Forensics

Subject Code: BTAM3207B

Date: 05/02/2024

Time: 03:00 p.m. to 03:45 p.m.

Total Marks: 10

Sr. No.		Question	CO	Marks
1	Solv	e any ONE of the following Questions	COI	1 * 5
	a.	Differentiate between Cyber Security and Information Security		
	b.	Give a classification of Cybercrimes in detail.	- 5 7	
2	Solv	e any ONE of the following Questions	COI	1 * 5
	a.	Enlighten: "The legal perspectives on cyber security in India."		
	b.	Write a short note on "Cloud Computing and Cybercrime"		

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University Department of Information and Communication Technology

CA-I Examination - Feb - 2024

Class: T.Y. B. Tech AIML

Sem: VI

Test: CA-I

Subject Name: EL-II- Cyber Security & Computer Forensics

Subject Code: BTAM3207B

Date: 05/02/2024

Time: 03:00 p.m. to 03:45 p.m.

Total Marks: 10

Sr. No.		Question	CO	Marks
1	Solv	ve any ONE of the following Questions	CO1	1 * 5
	a.	Differentiate between Cyber Security and Information Security		
	b.	Give a classification of Cybercrimes in detail.		
2	Solv	e any ONE of the following Questions	CO1	1 * 5
	a.	Enlighten: "The legal perspectives on cyber security in India."		
	b.	Write a short note on "Cloud Computing and Cybercrime"		

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University Department of Information and Communication Technology

CA - I Examination - Feb - 2024

Class: T.Y. B. Tech AIML

Sem: VI

Test: CA-I

Subject Name: EL-II- Cyber Security & Computer Forensics

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Total Marks: 10

Subject Code: BTAM3207B

Date: 05/02/2024 Time: 03:00 p.m. to 03:45 p.m.

Sr. No.		Question	CO	Marks
1	Solv	e any ONE of the following Questions	CO4	1 * 5
	a.	Differentiate between Cyber Security and Information Security		
	b.	Give a classification of Cybercrimes in detail.		
2	Solv	e any ONE of the following Questions	CO5	1 * 5
	a.	Enlighten: "The legal perspectives on cyber security in India."		
	b.	Write a short note on "Cloud Computing and Cybercrime"		

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Class Test -I (Academic year - Part-2)

Subject: Data Visualization

Class: Third Year (AIML)

Marks: 10 Marks

Duration: 45 Min.

Note: Solve any TWO of the following.

	Question	Marks	СО
Q1.	Compare and contrast between Exploratory vs. explanatory analysis with example.	5	1
Q2.	Explain data visualization components with suitable example.	5	1
Q3.	With suitable diagrams, explain types of visualization techniques.	5	1
Q4.	Write a short note on Importance of data visualization with example.	5	1

You are more productive by doing fifteen minutes of visualization than from sixteen hours of hard labor. "ABRAHAM HICKS, American Author

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University Department of Information and Communication Technology

Class Test -I (Academic year - Part-2)

Subject: Data Visualization

Class: Third Year (AIML)

Marks: 10 Marks

Duration: 45 Min.

Note: Solve any TWO of the following.

	Question	Marks	co
Q1.	Compare and contrast between Exploratory vs. explanatory analysis with example.	5	1
Q2.	Explain data visualization components with suitable example.	5	1
Q3.	With suitable diagrams, explain types of visualization techniques.	5	1
Q4.	Write a short note on Importance of data visualization with example.	5	1

You are more productive by doing fifteen minutes of visualization than from sixteen hours of hard labor. "ABRAHAM HICKS, American Author

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University Department of Information and Communication Technology

Class Test -I (Academic year - Part-2)

Subject: Data Visualization

Class: Third Year (AIML)

Marks: 10 Marks

Duration: 45 Min.

Note: Solve any TWO of the following.

	Question	Marks	CO
Q1.	Compare and contrast between Exploratory vs. explanatory analysis with example.	5	1
Q2.	Explain data visualization components with suitable example.	- 5	1
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Q4.	Write a short note on Importance of data visualization with example.	5	1
		5	1

You are more productive by doing fifteen minutes of visualization than from sixteen hours of hard labor. "ABRAHAM HICKS, American Author

University Department of Information and Communication Technology **Continues Assessment I**

Class: B Tech Third Year (AIML)

Subject Name: Convolutional Neural Network

Sem: VI

Subject Code: BTAM3201

Que. 1	Solve any TWO questions.	CO	Marks
A	What is perceptron? Explain in detail components of perceptron.	CO1	5
В	Explain back propagation with an example.	CO1	5
C	What is a neural network? Differentiate between biological neural network and ANN.	CO1	5
D	What is the cost function? How cost function is useful to build neural networks.	CO1	5

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University Department of Information and Communication Technology **Continues Assessment I**

Class: B Tech Third Year (AIML)

Subject Name: Convolutional Neural Network

Sem: VI

Subject Code: BTAM3201

Que. 1	Solve any TWO questions.	CO	Marks
A	What is perceptron? Explain in detail components of perceptron.	CO1	5
В	Explain back propagation with an example.	CO1	5
С	What is a neural network? Differentiate between biological neural network and ANN.	CO1	5
D	What is the cost function? How cost function is useful to build neural networks.	CO1	5

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University Department of Information and Communication Technology Academic Year (2023-24) Part II

Class: TY IT-1/TY-2/TY-AIML

Class Test: CA1

Date: 03/02/2024

Total Marks: 10

Subject: Web Enabled Software Engineering

Time: 45 Min

Note: 1) Attempt Any Two

2) Each Question Carry 5 Marks

Attempt Any Two	Level	Co
1) Explain umbrella activities in software process.	T	1
2) Explain generic view of process	L	1
3) Draw and Explain The Spiral model	M	1
4) Compare prototyping model and spiral model	Н	1

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University Department of Information and Communication Technology Academic Year (2023-24) Part II

Class: TY IT-1/TY-2/TY-AIML

Class Test: CA1

Date: 03/02/2024

Total Marks: 10

Time: 45 min

subject: Web Enabled Software Engineering

Note: 1) Attempt Any Two

2) Each Question Carry 5 Marks

Attempt Any Two	Level	Co
Explain umbrella activities in software process.	L L	1
Explain generic view of process		1
3) Draw and Explain The Spiral model	M	1
(1) Compare prototyping model and spiral model	Н	1

University Department of Information and Communication Technology

CA-I

Class: BTECH (IT/AIML)

Sem: VI

Subject Name: CVPR

Subject Code: BTIT3202

Date: 03/02/2024

Time: 1:00p.m to 1:45p.m

Total Marks: 10

Sr. No.	Solve any TWO of the following Questions.(Each question carries 5 Marks)	СО	Marks
1	Explains the geometry of image formation with a neat labeled diagram	CO1	5
2	Explain in detail about the concept of the pinhole camera model with the help of a diagram.	CO1	5
3	List and explain seven image pre-processing steps for optical character recognition.	CO1	5

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University Department of Information and Communication Technology

CA-I

Class: BTECH (IT/AIML)

Sem: VI

Subject Name: CVPR

Subject Code: BTIT3202

Date: 03/02/2024

Time: 1:00p.m to 1:45p.m

Total Marks: 10

Sr. No.	Solve any TWO of the following Questions.(Each question carries 5 Marks)	CO	Marks
1	Explains the geometry of image formation with a neat labeled diagram	CO1	5
2	Explain in detail about the concept of the pinhole camera model with the help of a diagram.	CO1	5
3	List and explain seven image pre-processing steps for optical character recognition.	CO1	5