

VDICT-TY-2

MGM University
University Department of Information and Communication Technology
CA-2 April-2024

Program : TY IT-1/IT-2
Course Name: Web Enabled Software Engineering
Max Marks: 10
Date:- 03/04/2024
Sem: VI
Subject Code: BTIT3201
Duration:- 45 Min

Instructions to the students
1. Solve any four questions.

	C.O	B.L	Marks
Q No-1 Explain Strategic approach to Software testing	4	Understand	5M
Q No-2 Difference Between white box and black box testing	4	Apply	5M
Q No-3 Explain OO Testing strategy	4	Understand	5M
Q No-4 Explain white box methods for internals-based tests	4	Understand	5M

15 MAY 2024 TY1 VDICT/2023-24/P2/CA-2

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Continues Assessment 2

Class: TY AIML

Sem: VI


Subject Name: Convolutional Neural Network

Subject Code: BTAM3201

Que. 1	Solve Following question.	CO	Marks
A	What is transfer learning? How it is useful for image classification?	CO 3	4
Que. 2	Solve TWO questions.	CO	Marks
A	Explain DenseNet architecture in detail.	CO 3	3
B	Explain AlexNet architecture in detail.	CO 3	3
C	Explain ResNet architecture in detail.	CO 3	3

15 MAY 2024/TY/VDICT/2023-24/p2-1 CA-2

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Class: Third Year UDICT Class Test: CA2 Date: 03-04-2024 Total Marks: 10
Subject: CVPR

Sr. Q1	Solve any two of the following Questions (5 Mark each)	CO	Level
1.	Explain Bayes theorem, Decision theory and justify the problem with basic method.	CO4	3
2.	Explain SVM with an example.	CO3	2
3.	Compute the Linear Discriminant projection for the following two-dimensional dataset $X1 = (x1, x2) = \{(4, 1), (2, 4), (2, 3), (3, 6), (4, 4)\}$ $X2 = (x1, x2) = \{(9, 10), (6, 8), (9, 5), (8, 7), (10, 8)\}$	CO4	3

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Academic Year (2023-24) Part II

Class: TY IT/AIML

Date: 4/04/2024

Time: 45min

Class Test: CA II

Total Marks: 10

Subject: ITC

Note: 1) Attempt all the questions.

Q1) Attempt Any Two of the Following	Level	CO
1) What is Cyclic code explain its properties.	L	1
2) If $m=1011$ and generator polynomial $g(x)=x^3+x+1$, find Code word by using systematic cyclic encoding.	M	1
3) Draw the convolutional encoder with code dimensions $(n,k,L)=(2,1,3)$ with generator polynomial $g_1(1,1,1)$, $g_2(1,0,1)$ draw the trellis diagram, State diagram, State table.	M	2
4) Differentiate linear block code and Convolutional code.	L	1

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Sr. No.	Question	CO	Marks
1	Solve any ONE of the following Questions	CO4	1 * 5
	a. What are various protocols used in Internet Security Systems?		
2	b. What is IDS? Explain the role of the Intrusion Detection System (IDS) in computer forensics.	CO4	1 * 5
	Solve any ONE of the following Questions		
	a. What is SAN? Explain types of SAN.		
	b. What are the core components of a Public Key Infrastructure (PKI) Systems?		

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Academic Year (2023-24) Part II

Class: TY (IT)

Class Test: CA-II

Date: / /2024

Total Marks: 10

Time: 1 Hour

Subject: IOT COMMUNICATION

Note: 1) Attempt Any Two

4) Each Question is of 5 Marks

5) Rightly drawn Diagrams indicate full Marks

Attempt Any Two	Level	Co
1) Define Actuators. Enlist any four actuators	L	4
2) Describe relay Interfacing with Arduino. Also write code.	M	4
3) Explain Interfacing of DHT11 Sensor with Arduino. Also write code	M	4
5) Describe Interfacing of LDR with Arduino. Also write code .	M	4

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Academic Year -2023-2024- Part 2

Elective- BTIT3208 IOT NETWORKING

Class: TY IT-Div1 &2

Date: 04.03.2024, 3 to 3.45 Pm

Time: 45 min.

Note: 1) Attempt any two

2) Each Question carries 5 marks

Class Test: CA2

Total Marks: 10

	Attempt Any two	Difficulty level	CO
Q1.	Explain in details about Actuator, and its function with diagram	Simple	1
Q2.	Explain in details about MEMS technology, and its components	Moderate	1
Q3.	Explain various communication protocols for WSNs.	Moderate	1
Q4.	Write in details about IoT architecture.	Moderate	1

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Class Test –II (Academic year: 2023-24 – Part-2)

Subject: Data Visualization

Marks: 10 Marks

Class: Third Year (AIML)

Duration: 45 Min.

Note: Solve any **TWO** of the following.

	Question	Marks	CO
Q1.	Explain importance of color in data visualization.	5	3
Q2.	Write a short note on Cognitive Interference and the Stroop Test.	5	3
Q3.	“Use Text Sparingly” what does it means.	5	3
Q4.	Write a short note on color theory.	5	3

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