



K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE - 560109
DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE ENGINEERING
SESSION: 2023-2024 (ODD SEMESTER)
1 SESSIONAL TEST QUESTION PAPER
SET-A

CN-1

Degree : B.E
 Branch : AI&DS
 Course Title : Computer Networks
 Duration : 60 Minutes

USN									
Semester	:	V							
Date	:	03/01/2024							
Course Code	:	21CS52							
Max Marks	:	20							

Note: Answer ONE full question from each part.

Q No.	Question	Marks	K-Level	CO mapping
PART-A				
1(a)	Illustrate TCP/IP model with a neat diagram	5	Applying K3	CO1
1 (b)	Define computer networks? Explain i) Local Area Network ii) Personal Area Network	5	Understanding K2	CO1
OR				
2(a)	Illustrate OSI reference model with a neat diagram	5	Applying K3	CO1
2(b)	Explain a simple client-server interaction using acknowledge datagram. List six service primitives to provide connection-oriented service.	5	Understanding K2	CO1
PART-B				
3(a)	Differentiate between i) OSI model and TCP/IP model	5	Understanding K2	CO1
3(b)	What is guided media? Explain i. Coaxial cable ii. Fiber optics	5	Understanding K2	CO2
OR				
4(a)	Explain Connection-Oriented and Connectionless service.	5	Understanding K2	CO1
(b)	What is framing? Explain i. Byte count ii. Flag bytes with byte stuffing	5	Understanding K2	CO2

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Course Incharge

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IQAC- Coordinator

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Principal
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K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE - 560109
DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE
SESSION: 2023-2024 (EVEN SEMESTER)
III SESSIONAL TEST QUESTION PAPER
SET-A

Degree : B.E Branch : AI&DS Course Title : Natural Language Processing Duration : 60 Minutes	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> </table> Semester : VI Date : 29/07/2024 Course Code : 21AI643 Max Marks : 20												

Note: Answer ONE full question from each part.

Q No.	Question	Marks	K-Level	CO mapping
PART-A				
	Discuss the following.			
1(a)	i) Infact system ii) GlobalSecurity.org	5	Understanding K2	CO4
1(b)	Illustrate latent semantic analysis.	5	Applying K3	CO5
OR				
2(a)	With neat diagram explain the learning framework architecture.	5	Understanding K2	CO4
2(b)	Illustrate SVM(support vector machine) learning method in sequence model estimation.	5	Applying K3	CO5
PART-B				
3(a)	What is dependency parsing? Find the dependency graph for the following sentences S1: Protesters seized several pumping stations, holding 127 shell workers hostage. S2: Troops recently have raided churches, warning ministers to stop preaching	5	Applying K3	CO4
3(b)	Explain in detail the high-level representation approaches in text mining.	5	Understanding K2	CO5
OR				
4(a)	Interprete subsequent kernels and dependency path kernel for relation extraction with examples.	5	Applying K3	CO4
4(b)	Briefly explain the evolutionary model for knowledge discovery from texts with a neat diagram.	5	Understanding K2	CO5

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
SESSION: 2023-2024(EVEN SEMESTER)
III INTERNAL TEST QUESTION PAPER
SET-A


USN

Degree : B.E
 Branch : AI & DS
 Course Title : Machine Learning
 Duration : 60 Minutes

Semester : VI
 Course Code : 21AI63
 Date : 30/07/2024
 Max Marks : 20

Note: Answer ONE full question from each part.

Q No.	Questions	Marks	K-Level	CO mapping
PART-A				
1(a)	i. Illustrate the CART Training Algorithm. ii. Develop a program in python to implement ID3 Algorithm.	5	Applying K3	CO4
(b)	Illustrate Bayes Theorem and maximum posterior hypothesis.	5	Applying K3	CO5
OR				
2(a)	Illustrate the following with respect to decision tree. i. Regularization Hyperparameters ii. Regression iii. Instability	5	Applying K3	CO4
(b)	Show that how maximum likelihood (Bayesian learning) can be used in any learning algorithms that are used to minimize the squared error between actual output hypotheses and predicted output hypothesis.	5	Applying K3	CO5
PART-B				
3(a)	Illustrate the following: i. Voting classifiers ii. Bagging and pasting	5	Applying K3	CO4
(b)	Illustrate Bayes Optimal Classifier and Gibbs Algorithm	5	Applying K3	CO5
OR				
4(a)	What is AdaBoost? Illustrate Weighted error rate and Weight update rule for AdaBoost.	5	Applying K3	CO4
(b)	Illustrate Naïve Bayes Classifier and Bayesian Belief Networks.	5	Applying K3	CO5


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