Branch:	CCD		0	arti
Subject Nan	CSE ne: Data Mining		Semester: Subject Code:	8 <sup>th</sup>
Time:	2 hours		Roll NO.	
Instruction:				
1. The	re are six questions in thi	is paper. Answer any	four out of six question	ns.
	stion No. 1 is compulsor			
	marks are indicated in th			s equal marks.
4. Dra	w the necessary neat and		ever applicable.	
		Full Marks: 20		
		Section A	e	1
Attempt all	questions;			(1X5 = 5 Mar
			92 - V	
Which o	f the following refers to the	e problem of finding a	bstracted patterns (or str	ructures) in the CO
unlabele	d data?	<u>.</u>		
(i)	Supervised learning			•
(ii)	Unsupervised learning			
(iii)	Hybrid learning	and the state of t		and the second
(iv)	Reinforcement learning		A Committee of the Comm	Lyske a A
Which of	the following is NOT a da	ta mining task?		COI
(i)	Classification		•	
(ii)	Regression	•		414
•	_			
(iii)	Association rule mining			
(iv)	Natural language proces			
Which of	the following is NOT a typ	be of data mining?		
(i)	Descriptive			
(ii)	Predictive			
(iii)	Prescriptive.			
(iv)	Diagnostic	27276		
KDD stan				CO
(i) •	Knowledge Discovery D	atabase	A STATE OF THE STATE OF THE STATE OF	No. of the second
(ii)	Knowledge Definition D	ata	A STATE OF THE STA	
(iii)	Knowledge Data Discov	ery		
(iv)	Knowledge Data Definit			
Which of	the following is NOT a ber	nefit of data mining?	get a second	(60)
			₹	11.27

- (i) Improved decision making
- (ii) Reduced costs
- (iii) Increased customer satisfaction
- (iv) Improved compliance

## Section B Answer any three questions

(2.5+2.5=5 Marks)

- 2. (a) What is data warehouse? Differentiate between operational database system and data warehouse. (CO1)
  - (b) Explain with diagram three-tier data warehouse architecture. (CO2)

(2.5+2.5=5 Marks)

- , 3. (a) Describe the steps involved in the data mining when viewed as a process of knowledge discovery (KDD Model). (CO2)
  - (b) Explain differences between OLAP and OLTP. (CO2)

(5 Marks)

4. A database has five transactions. Let min sup D 60% and min conf D 80%:

TID	Items-bought
T100.	{M,O,N,K,E,Y}
T200	{D,O,N,K,E,Y}
T300	{M,A,K,E}
T400	{M,U,C,K,Y}
T500 •	{C,O,O,K,I,E}

Find all frequent itemsets using Apriori algorithm. (CO3)

(2.5+2.5=5 Marks)

- 5. (a) Describe data Mining Model in brief (CO1)
  - (b) How is data warehouse different from a database? How are they similar? (CO1)

(5 Marks)

6. With a neat sketch explaining the architecture of a data warehouse. (CO2)

Total nos. of printed page	s: 1
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Roll No:						



## MOTIHARI COLLEGE OF ENGINEERING, MOTIHARI

**Even Semester** 

Session 2022-23

Mid Semester Exam

B. Tech. 8th Semester, Computer Science and Engineering

## **BLOCKCHAIN**

Time: 2 Hrs.

Maximum Marks 20

#### Section A

## Q1. Attempt all questions:

(1X5 = 5 Marks)

CO 1 What is the objective of a Bitcoin? CO<sub>2</sub> b What is a Block in Blockchain? CO3 Who can create Blocks in Blockchain? C d What are the popular applications of Blockchain? CO<sub>2</sub> CO 1

### Section B

#### Q2-Q4 Attempt all questions:

(5X3 = 15 Marks)

Q2 What are the problems in Transaction Ordering process in Bitcoin? Explain the CO 2 i) solution.

OR

- What are the problems in Single Central Controller in Bitcoin? Explain the CO 2 ii) solution.
- Explain the concept of Proof-of-work in Blockchain. Q3 i)

Differentiate between Bitcoin and Blockchain.

CO<sub>3</sub>

OR

Explain the concept of Block Rewards in Blockchain. ii) CO<sub>3</sub> Explain the basic concept of Blockchain. Q4 i) CO 1

OR

Explain the concept of Longest Chain Rule in Blockchain. ii)

CO<sub>4</sub>



# MOTIHARI COLLEGE OF ENGINEERING, MOTIHARI

Name of Exa	mination		- Indition	THING, MO	THARI	
Branch:	CSE	B.Tech Mid Ser	nester Examinati	On July 2000		1
Subject Name:	Ad-hoc and Sens	or Network	*	Semester:	VIII	
Time:	2 hours		_	Subject	105819	94
Instruction:		Full Marks	: 20	Roll NO.	18	4 7
 a. There	are four quarties		7	1		T

- a. There are four questions in this Paper. Question No. 1 is compulsory.
- b. Students have to attempt either part (a) or (b) from remaining questions. The marks are
- c. Draw the necessary neat and clean diagram wherever applicable.
- d. Write to the point only, writing unnecessary and irrelevant things may lead to reduction
- Define handoff.
  - What is multicasting?
  - What is hidden terminal problem? Explain in brief. (c)
  - List the application of Ad-Hoc networks. (d)
  - (e) What is hybrid routing?
- Q. 2 (a) List the classification of MAC protocol.

OR

- What is contention-based protocol?
- Write down the issues of designing a MAC protocol for Ad-Hoc networks.
  - State the difference between cellular network and Ad-Hoc Wireless network .
- Discuss Ad-Hoc and sensor network in detail.

Explain the design issues in Ad Hoc networks. (b)

Total nos	, of printed pages: 2	Roll No:	
	MOTIHARI COLLEGE	OF ENGINEERIN	G, MOTIHARI
	B. Tech. 8th Seme	ession 2022-23 ster, Computer Scienc IBEDDED SYSTEM	Mid Semester Exame e Engineering
	Γime: 2 Hrs.		Maximum Marks 20
· .	<u>Se</u>	ction A	
Q1. A1	tempt all questions:		(1X5 = 5 Marks)
а	What is ARM status bit after subtracting 1 from	n 0.	CO2
b	What is meaning of instructions (i) ADC r0, r1,	CO2	
c	What is meaning of instructions (i) RSB r0, r1,	CO2	
ď	Define an Embedded system? Give examples?	CO1	
e	List out the difference between an embedded s	9	uter CO1
	<u>Se</u>	ction B	
Q2-Q4	Attempt all questions:		(5X3 = 15 Marks)
02	i) (a) Discuss the instruction set available	in ARM processor with example.	[2.5M X2=5M] CO2
Q2 	(b) Discuss about the special features o	f SHARC processor as compared with $\mathbf{OR}$	h ARM processor.
	ii) Briefly explain about different data ope		[5.0M] CO2
03	<ul><li>i) (a) What is an embedded system? List</li></ul>	out its applications. Explain why th	e processors play a vital CO1
Q3	role in embedded systems.		[5.0M]
		OR	
	ii) Explain the characteristics of embedden	ed system? What are the quality a	[5.0M]
			[2.0141]

Write a program for X = (a + b) - c and store the value of X at register R3.Also explain ARM

Write a program for Y = a \* (b+ c) also store the value of Y at register R4. Also explain SHARK

OR

processor.

processor.

ii)

[2.5M X2=5M]

[2.5M X2=5M]