Hall Ticket Number :						

Code: 5G164

R-15

III B.Tech. II Semester Supplementary Examinations February 2021

## **Artificial Intelligence**

(Computer Science and Engineering)

Max. Marks: 70

Time: 3 Hours

Appropriate by chaosing and question from each unit (5 x 14 = 70 Marks)

Answer all five units by choosing one question from each unit ( $5 \times 14 = 70 \text{ Marks}$ )

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			Marks	СО	Blooms Level
		UNIT-I			
1.	a)	Define Artificial Intelligence? Explain its importance in modern life.	7M	1	L1
	b)	Explain the various application domains of Al	7M	1	L2
		OR			
2.		What are different types of Agents? Explain them in brief.	14M	1	L1
		UNIT-II			
3.		What is a depth first search of the search tree? Write an algorithm to			
		conduct depth first search explain with example and also mention	4 4 5 4	2	1.4
		advantages and disadvantages.	14M	2	L1
	,	OR	71.4	•	1.4
4.	a)	What is best first searching? Explain in detail A* algorithm.	7M	2	L1
	b)	Explain Constraint Satisfaction problem for solving a map Coloring problem	7M	2	L2
_		UNIT-III			
5.		Explain in detail about forward chaining and backward chaining with an example	14M	3	L2
		OR	I <del>T</del> IVI	3	LZ
6.	٥)	Explain about first order logic and how it is differs from propositional logic	7M	3	L2
0.	a)		7 M	3	L2
	b)	Explain about the unification algorithm  UNIT-IV	/ IVI	3	LZ
7.	a)	Describe about the categories and objects in knowledge engineering.	7M	4	L1
	b)	Explain in detail about Ontology	7M	4	L2
		OR			
8.	a)	Explain Partial Order Planning in detail.	7M	4	L2
	b)	Describe in detail about Hierarchical Planning.	7M	4	L1
		UNIT-V			
9.	a)	What is the need of acting under uncertainty in the agents	7M	5	L1
	b)	Describe in detail about Dempster-Shafer theory	7M	5	L1
		OR			
10.	a)	Briefly explain about fuzzy logic?	7M	5	L2
	b)	Describe in detail about Bayesian Theory and Bayesian Network	7M	5	L1

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III B.Tech. II Semester Supplementary Examinations February 2021

## **Data Mining and Data Warehousing**

(Computer Science and Engineering)

Max. Marks: 70 Time: 3 Hours Answer all five units by choosing one question from each unit ( $5 \times 14 = 70$  Marks)

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			Marks	СО	Blooms Level
		UNIT-I			
1.	a)	Explain briefly about various data mining functionalities.	8M	CO1	L2
	b)	"Data cleaning as a process". Justify.	6M	CO1	L5
2	2)	OR What is the need for proprocessing techniques? Summarize Data			
2.	a)	What is the need for preprocessing techniques? Summarize Data Transformation Methods.	7M	CO1	L2
	b)	Describe three challenges to data mining regarding data mining			
		methodologies and user interaction issues.	7M	CO1	L1
2	۵۱	UNIT-II	CNA		1.0
3.	a)	Briefly compare Enterprise warehouse, Data Mart, Virtual warehouse.	6M	CO2	L2
	b)	Explain how to generate frequent item sets using FP-growth algorithm.  OR	8M	CO2	L2
4.	a)	Define a data cube. Illustrate different OLAP operations in Multidimensional			
	,	Data Model.	7M	CO2	L1
	b)	How can we mine multilevel association rules efficiently using concept			
		hierarchies? Explain.	7M	CO2	L1
		UNIT-III			
5.	a)	Describe the measures for computing classifier accuracy.	6M	CO3	L1
	b)	Explain decision tree induction classification with an algorithm.	8M	CO3	L2
^	- \	OR			
6.	a)	Why is naïve Bayesian classification called "naïve"? Briefly outline the major ideas of naïve Bayesian classification.	8M	CO3	L2
	b)	Compare the advantages and disadvantages of eager classification versus			
		lazy classification.	6M	CO3	L2
_		UNIT-IV			
7.		Suppose that the data mining task is to cluster points (with x,y) representing			
		location) into three clusters, where the points are $A_1$ (2, 10), $A_2$ (2, 5), $A_3(8, 4)$ , $B_1(5, 8)$ , $B_2(7, 5)$ , $B_3(6, 4)$ , $C_1(1, 2)$ , $C_2(4, 9)$ .			
		The distance function is Euclidean distance. Suppose initially we assign A <sub>1</sub> ,			
		B <sub>1</sub> , and C <sub>1</sub> . as the center of each cluster, respectively. Use the K-means			
		algorithm to show only			
		(i) The three cluster centers after the first round of execution.			
		(ii) The final three clusters.	14M	CO4	L3
0	- \	OR	014		1.4
8.	a)	What is cluster analysis? Describe Divisive Hierarchical method of clustering.	6M	CO4	L1
	b)	Explain about DBSCAN algorithm with a neat example.	8M	CO4	L2
0	2)	UNIT-V  Explain the basic measures for text retrieval	71/1		L2
9.	a)	Explain the basic measures for text retrieval.	7M	CO5	
	b)	List challenges of web mining.  OR	7M	CO5	L1
10.	a)	What are the differences between mining association rules in multimedia			
	,	databases Versus in transaction databases?	7M	CO5	L1
	b)	Explain Spatial Databases.	7M	CO5	L2
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2.	a)	Explain in de	etail a	bou	t the	three	e leve	els o	f soft	ware	eco	nomi	cs.			7M
	b)	Discuss con	venti	onal	softv	vare	man	agen	nent	perfo	rma	nce				7M
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3.	a)	Describe inc	eptio	n an	d ela	bora	tion	phas	e in	detai	l.					7M
	b)	Write a note	on m	nana	gem	ent a	rtifac	ts ar	nd pr	agma	atic a	artifa	cts.			7M
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4.		State and ex	plain	the	princ	ciples	con	vent	ional	softv	ware	engi	neer	ing.		14M
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5.		Discuss in d	etail a	abou	ıt wo	rk flo	ws o	f a s	oftwa	are p	roces	SS.				14M
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6.	a)	Write about	result	ts of	mino	or mil	esto	nes i	n a n	node	rn pr	oces	ss.			7M

UNIT-IV

7. a) Briefly explain about work breakdown structures.

b) Justify the need of periodic status assessments.

7M

7M

b) Write a detail note on cost and schedule estimating process.

7M

OR

8. a) Define round trip engineering. Write process discriminators that results from differences in architectural engineering.

7M

b) What is the need of process automation? Explain.

7M

UNIT-V

9. Explain different quality indicators with suitable example.

14M

OR

10. a) Illustrate the two dimensions of process discriminators

7M

b) Explain next generation cost models in brief

7M

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4.		Write about th	ne cre	eatior	n and	custo	omiza	ation o	of list	views	s with	exai	mple co	ode snippe	ts. 14N
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5.		Demonstrate	> wit	h ov	amal	o ho		UNIT		Orv	lmaa	ıo\/io	w and	Grid\/iov	, in
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6.		How can you	ı retri	eve a	and n	nodify	y the	prefe	erenc	es va	alues	prog	ramma	atically?	14N
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10.		Explain the	proc	ess (	of co	mmı	ınica			een :	a se	rvice	and a	activity. W	rite
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