MARIAPril 2024

Total No	of Questions : 5] SEAT No. :	
PB84	Total No. c	Pages Janamany a
	162041-34	1
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	INTELLÎGENCE. ML. DL	2.0 * 2.00
	(Revised 2020 Pattern) (Semester - III)	
Time : 25	Hours Max.	Marks : 50
Instructio	ons to the condidates	
1)	All questions are compulsory.	
2)	Figures to the right indicates full marks.	
3)	Use of scientific calculator is allowed.	
01) a)	Explain the different Applications of AL	[5]
b)	What is confusion Matrix. Explain with suitable example.	[5]
	OR	
c)	Explain the four approaches to knowledge representation.	[5]
d)	State & explain steps in creating machine learning model.	[5]
		(5)
Q 2) a)	Using the following statement	[5]
	p: Mohan is rich	
	q: Mohan is happy	<u></u>
	Write the following statement in symbolic form	26°
	i) Mohan is neh but hanny	
	ii) Mohan is poor but happy	× [°]
	in) Mohan is near as he is both rich & unhappy	
	It is false that Mahan is rich & hanny	
	Write a FoL of the following statements	151
6)	in Ram likes all types of food	
	Every one is loval to some one	
	iii) Pavi eats apple and is still alive	
	iu) All rate are Grey	
	v) Nobody likes obeats	
	v) nobody likes clicats	

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- c) Consider the following statements & test the validity. [5]
 It I could swim, I had come sailing with you I can't swim so I am not comming sailing with you. [5]
- d) Construct the truth table for the following.
 - i) $(p \rightarrow q) \leftrightarrow (q \lor p)$ ii) $p \rightarrow (q \rightarrow p)$
- **Q3)** a) Use k-means elustering to cluster the following data into two groups. Assume cluster centroid are $m_1 = 2$ and $m_2 = 4$. The distance function use is Euclidean distance. $\{2, 4, 10, 12, 3, 20, 30, 11, 25\}$. [5]

OR

- b) Explain support vector machine with neat diagram.
- c) Find the line g regression of y on x-from the following table. [5]

					have been been been been been been been be		
	<i>x'</i>	1	2	3	4 5 5 6		
	y	7	6	5	4 3 5		

Hence estimate the value of when x = 6.

d) Explain the concept of Reinforcement learning in machine learning. [5]

Consider the following **04)** a) W_{2} W_3 W_4 W_5 2 40 19 19 10 10 10 1 $\overrightarrow{r_0}$ 1 0 1 0 $r_0: w_0 w_3$ $r_{1} : w_{1}w_{2}w_{3} \qquad r_{1} \qquad 0 \qquad 1 \qquad 1 \qquad 1$ $r_{2} : w_{4}w_{5}w_{1} \qquad r_{2} \qquad 0 \qquad 1 \qquad 0 \qquad 0$ $r_{3} : w_{1}w_{3}w_{5} \qquad r_{3} \qquad 0 \qquad 1 \qquad 0 \qquad 1$ r_{A} 0 1 0 $r_4 : W_3 W_0$ Calculate the TFIDF $(r_1 w_3) \& (r_2 w_3)$ State & explain the applications deep learning. OR [5] b) agement & Institut LIBRARY 2 [6204]-34

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c) By using the given input & Kernel, perform the convolutional mapping[10]



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[6204]-33

S.Y.M.C.A. (Management)

IT - 33 : SOFTWARE TESTING AND QUALITY ASSURANC

(Revised 2020 Pattern) (Semester - III)

Time : 21/2 Hours/

[Max. Marks : 50

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Instructions to the candidates:

- All questions are compulsory. 1)
- Draw neat diagrams whenever necessary. 2)
- 01) Write a detailed test plan for university result declaration system, which provides the facility to view students result (sem/year) wise, system should have facility to apply for rechecking/revaluation with payments. Your plan should include the desired test documents. [10]

Design suitable test cases for above application.

[10]

- What is software quality assurance? Explain SQA activities. *Q2*) a) [5] What are software quality metrics. Explain process quality metrics. b) [5] OR Define SQA. Explain building blocks of SQA. c) [5] What is software realibility. Explain any two realibility measurement factors. [5] d)
- Explain various write box testing techniques. *Q3*) a) [5] Explain with diagram V and W model. b) [5] OR
 - Explain Non-functional testing types. c) [5] Write in detail levels of testing. d)
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