University of Mumbai

Examinations Summer 2022 Master of Engineering

	Choose the correct option for following questions. All the Questions are
Q1.	compulsory and carry equal marks
1.	A processor performing fetch or decoding of different instruction during the
	execution of another instruction is called
Option A:	Super-scaling Super-scaling
Option B:	Pipe-lining SSA SSA SSA SSA SSA SSA SSA SSA SSA SS
Option C:	Parallel Computation
Option D:	none of above
2.	Scaling Characteristics of Parallel Programs Ts is
Option A:	increase 377346888888888
Option B:	constant
Option C:	decreases
Option D:	none
	\$2,88,6645,0,44,42,4,666,668
3.	Mappings are determined by
Option A:	task dependency
Option B:	task interaction graphs
Option C:	Both A and B
Option D:	None of Above
4.	Mpi Recv used for
Option A:	reverse message
Option B:	receive message
Option C:	forward message
Option D:	Collect message
5.86	To which class of systems does the von Neumann computer belong?
Option A:	SIMD (Single Instruction Multiple Data)
Option B:	MIMD (Multiple Instruction Multiple Data)
Option C:	MISD (Multiple Instruction Single Data)
Option D:	SISD (Single Instruction Single Data)
22728	
6.	The $n \times n$ matrix is partitioned among n2 processors such that each processor owns a _ element
Option A:	N
Option B:	2n 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Option C:	single
Option D:	double
14 20 00 00 00 00 00 00 00 00 00 00 00 00	
337.33	Decomposition Techniques are_
Option A:	recursive decomposition
Option B:	data decomposition
Option C:	exploratory decomposition
- Priori	District accompanion

	2 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
8.	NUMA architecture usesin design
Option A:	cache
Option B:	shared memory
Option C:	message passing
Option D:	distributed memory
	7 4 7 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
9.	What strategy does the GPU employ if the threads within a warp diverge in their execution?
Option A:	Threads are moved to different warps so that divergence does not occur within a single warp
Option B:	Threads are allowed to diverge
Option C:	All possible execution paths are run by all threads in a warp serially so that thread instructions do not diverge
Option D:	None of above
10.	Which of the following correctly describes a GPU kernel
Option A:	A kernel may contain a mix of host and GPU code
Option B:	All thread blocks involved in the same computation use the same kernel
Option C:	A kernel is part of the GPU's internal micro-operating system, allowing it to act as
	in independent host
Option D:	None of above
	\$\$\$\\ \frac{1}{2}\tau_{\\ \tau_{\tau_{\tau_{\\ \tau_{\tau_{\\ \tau_{\tau_{\\ \tau_{\\ \\ \tau_{\\ \tau_{\\ \tau_{\\ \tau_{\\ \tau_{\\ \tau_{\\ \tau_{\\ \\ \tau_{\\ \tau_{\\ \\ \tau_{\\ \tau_{\\ \\ \tau_{\\ \tau_{\\ \tau_{\\ \\ \tau_{\\ \tau_{\\ \\ \tau_{\\ \tau_{\\ \\ \tau_{\\ \\ \\ \\ \tau_{\\ \\ \\ \\ \\ \tau_{\\ \\ \tau_{\\ \\ \tau_{\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\

Q2.	Solve any Four out of Six	5 marks each
A	What is Open MP?	
В	Write short note: Nanotechnology	
C	Write short note: Quantam Computers	
D S	What are different levels of parallel processing?	
E	Give advantages of using non uniform memory access mode	1.
F	Explain pipelined execution.	

Q3. Solve any Two Questions out of Three 10 ma				
A	State and explain Amdahl's law with example.			
\mathbf{B}	Write short note: SIMD matrix multiplication.			
	Explain Flynn's classification in detail.			

Q4.	Solve any Two Questions out of Three	10 marks each
AOSO	What are the different performance metrics?	
B	What is a Data Race? Why Data-Races are Undesired? prevented?	How Data-Races can be
COST	Explain granularity, concurrency and dependency graph	١.

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0.1	Choose the correct option for following questions. All the Questions are
Q1.	compulsory and carry equal marks
1.	Choose the statement which is true for Hard Computing?
Option A:	Hard computing systems can work with partial truth.
Option B:	Hard Computing is suitable for complex real world problems.
Option C:	Hard computing requires precisely stated analytical model.
Option D:	Hard computing systems allow parallel computations.
2.	Consider a given fuzzy preposition "IF food is good THEN time taken for consumption is slow". The technique which helps to deduces time taken for consumption when food is very good is called
Option A:	Generalised Modus Tollens
Option B:	Generalised Modus Ponens.
Option C:	Universal specialization
Option D:	Chain rule.
	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
3.	Give the functionality of layer 2 in ANFIS :
Option A:	Layer 2 in ANFIS is responsible for fuzzification.
Option B:	Layer 2 in ANFIS is responsible for determining firing strength of rule.
Option C:	Layer 2 in ANFIS is responsible for normalization of firing strength of rule.
Option D:	Layer 2 in ANFIS is responsible for giving summation of all incoming signal.
4.	Which of the following is not true about Perceptron ?
Option A:	It can classify linearly separable patterns
Option B:	It has only one output unit.
Option C:	It has multiple input units.
Option D:	It can not classify linearly separable patterns
554	How is perceptron different from Mc Culloch Pitts model of neuron?
Option A:	Perceptron introduced the concept of only binary weights for input.
Option B:	Perceptron has the mechanism to learn.
Option C:	In perceptron inputs are limited to Boolean values.
Option D:	Perceptron uses only linear activation functions.
0,0,4,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	Which of the following nets employ unsupervised learning?
Option A:	Kohonen's Self-Organizing Map (SOM)
Option B:	Multi-layer Perceptron (MLP)
Option C:	Backpropagation network
Option D:	Adaline
8 7 4 8 9 V	Which of the techniques mentioned below fall under derivative free optimization?
Option A:	Genetic Algorithm
Option B:	Newton's Method
Option C:	Steepest Descent
Option D:	Gradient descent

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8.	represen	t outp	ut afte	er perfo	w left side represents an image block and right side rming an operation on it. Choose the correct operation age block.
	2	2	7	3	
	9	4	6	1	9 7
	8	5	2	4	Filter - (2 x 2) Stride - (2, 2)
	3	1	2	6	
Option A:	Highest	Poolir	ng	SEV.S	1.59.54.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.
Option B:	Random			20,00	
Option C:	Max Poo		27	750	
Option D:	Average		ng	200	
•		Ŕ	16.07	084	X 3 2 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
9.	Choose	the co	rrect o	ption il	llustrating the Steps of fuzzy logic controller
Option A:	Fuzzific	ation -	>Inpu	ıt varial	ole identification->rule formation-> Rule strength n->defuzzification.
Option B:					n ->Fuzzification -> rule formation -> rule evaluation- -> defuzzification.
Option C:				7 () - / - ()	n ->Fuzzification -> rule formation-> Rule strength n->defuzzification.
Option D:					1->Fuzzification -> Rule strength calculation ->rule ->defuzzification.
10.	Which of	f the fo	llowin	g is not	the purpose of Rough sets?
Option A:			V 121 177	T-17 / 7 / 1	basis for KDD
Option B:					n of (learning) approximations of concepts
Option C:	Rough se	et analy	sis all	ow us to	develop control system
Option D:	It offers	mathen	natical	tool to	discover patterns hidden in data

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Time: 2 hour 30 minutes Max. Marks: 80

O2	Solve any Four out of Six 5 marks each							
(20 Marks Each)	Please delete the instruction shown in front of every sub question							
A	Let X and Y be prepositions with their truth values as given below: X: Radha is efficient, T(P)=0.8 Y: Raj is efficient, T(P)=0.65 Find out the truth values of following fuzzy prepositions using fuzzy connectives. 1. Radha is not efficient. 2. Raj is not efficient. 3. Radha is efficient and so is Raj. 4. Either Radha or Raj is efficient. 5. IF Radha is efficient THEN so is Raj.							
В	What is deep learning? Give historical context related to deep learning.							
C	Given two fuzzy set relations R and S defined by $R = \begin{bmatrix} 0.0 & 0.2 & 0.8 \\ 0.3 & 0.6 & 1.0 \end{bmatrix} \qquad S = \begin{bmatrix} 0.3 & 0.7 & 1.0 \\ 0.5 & 1.0 & 0.6 \\ 1.0 & 0.2 & 0.0 \end{bmatrix}$ Find: 1. Max-min composition. 2. Max-product composition.							
D	How Weights of the hidden layers are updated in EBPTA algorithm? Give the steps and mathematical formulas used in the process. Prove that for							
	Write a short note on Neuro-Genetic systems.							
F	Explain the term Soft Computing with an example? Give various characteristics of Soft Computing.							

[P.T.O.]

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Time: 2 hour 30 minutes Max. Marks; 80

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757	_	$\overline{}$		⊼-	70		T 106	1 45	7 /3	7.07		7	τ_{\sim}

Q3 (20 Marks Each)	Solve any Two out of Three marks each Please delete the instruction shown in front of every sub question
A	Train following data for two clusters using Kohanan's SOM. Determine final Weight vector after one Epoch. Input patterns X= [x1, x2], Assume learning Rate $c = 0.2$ x1[1 0 0], x2=[1 0 1]. Initial Weight Vector W= $\begin{bmatrix} 1 & 1 \\ 0.5 & 0 \\ 0.5 & 0.5 \end{bmatrix}$
В	Describe ART algorithm. Give two advantages of ART over SOM. What is a difference between ART-1 and ART-2?
C	Design a fuzzy controller that regulates the temperature of a Airconditioner. Make following assumptions: (a) The input temperature is sensed by Temp Sensor. (b) The value of the required temp is set. (c) Input variable can be considered as difference between Set temperature and Sensed temperature (d) Control variable is the speed of the compressor motor. (e) domain for temperature: 15 to 30 °C. (f) Speed of the motor can be expressed in terms of percentage. Perform the following steps required for designing of fuzzy controller: 1. Identify the input and output variable and decide descriptors for same. 2. Define membership functions for input and output variables. 3. Form a rule base.

[P.T.O.]

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Q4. (20 Marks Each)				Three man			10 marks each ry sub question
A				ow it is dif	fferent fi	om ANF	IS. Explain Colour
B	get def 1. 2. 3.	Centr Centr Centr Weig	l value oid Meth e of Sum	od		y the follo	[5] [2.5] [2.5] X
	U= {Cl Chemis	Identinemistrestry, Markett Find	fy Indiscency}, U={A aths}, Upper Bo	ound and Lo	Chemistr wer bour	ry, Maths} nd for Ad	, U={Physics, [5] mit? = Yes, Admit?
	32733	15 a D	ecision A	Attribute bas	ed on IN	D={Pilys	ics, Chemistry, Maths
	8 8 6 7 5 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	200	ecision A	Attribute bas	ed on IN	D={Pflys	ics, Chemistry, Maths] [5]
		Roll	Physics	Attribute bas Chemistry	ed on IN	Admit?	•
		Roll					•
		Roll	Physics	Chemistry	Maths	Admit?	•
	U I	Roll No	Physics A	Chemistry B	Maths A	Admit?	•
	U 1 U1 U2	Roll No 1	Physics A B	Chemistry B B	Maths A A	Admit? Y Y	•
	U1 U2 U3	Roll No 1 5 14	Physics A B	Chemistry B B B	Maths A C	Admit? Y Y N	•
	U1 U2 U3 U4	Roll No 1 5 14 9	Physics A B B A	Chemistry B B C	Maths A A C A	Admit? Y Y N Y	•
	U1 U2 U3 U4 U5	Roll No 1 5 14 9	Physics A B B C	Chemistry B B C A	Maths A A C A C	Admit? Y Y N N N	•

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Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Which of the following is not a part of the data science process?
Option A:	Model planning
Option B:	Discovery
Option C:	Communication building
Option D:	Operationalize
1	
2.	Suppose we are using dimensionality reduction as pre-processing technique, i.e, instead of using all the features, we reduce the data to k dimensions with PCA. And then use these PCA projections as our features. Which of the following statement is correct?
Option A:	Higher 'k' means more regularization
Option B:	Higher 'k' means less regularization
Option C:	Higher 'k' means medium regularization
Option D:	None of the mentioned
-	
3.	Which of the following methods do we use to best fit the data in Logistic Regression?
Option A:	Least Square Error
Option B:	Maximum Likelihood
Option C:	Jaccard distance
Option D:	Least Square Error and Jaccard distance
4.	What is the aim of nosql?
Option A:	NoSQL provides an alternative to SQL databases to store textual data
Option B:	NoSQL is not suitable for storing structured data
Option C:	NoSQL databases allow storing non-structured data
Option D:	NoSQL is a new data format to store large datasets
5.	A correct way to preprocess the data When performing regression or classification is
Option A:	Normalize the data \rightarrow PCA \rightarrow training
Option B:	Normalize the data \rightarrow PCA \rightarrow normalize PCA output \rightarrow training
Option C:	PCA → normalize PCA output → training
Option D:	PCA → training→ normalize PCA output
6.	In an hypothesis testing, Type II error is made if
Option A:	we reject the null hypothesis when the alternative hypothesis is true
Option B:	we do not reject the null hypothesis when the null hypothesis is true
Option C:	we reject the null hypothesis when the null hypothesis is true

Option D: we do not reject the null hypothesis when the alternative hypothesis is true 7. Typical text mining tasks include? Option A: text categorization Option B: text clustering Option C: entity relation modeling Option D: text categorization , text clustering, entity relation modeling 8. What would you do in PCA to get the same projection as SVD? Option A: Transform data to zero mean Option B: Transform data to zero median Option C: Transform data to zero max Option D: Not possible 9. A majority of work in R uses systems internal memory and with large datasets, situations may arise when the R workspace cannot hold all the R objects in memory. So removing the unused objects is one of the solution. Which of the following command will remove an R object / variable named "sam" from the workspace? Option A: remove(sam) Option B: mr(sam) Option C: Both Option D: None 10. Elementary commands in R consist of either or assignments. Option A: packages Option B: language Option C: expressions Option D: utilistats				
Option A: text categorization Option B: text clustering Option C: entity relation modeling Option D: text categorization , text clustering, entity relation modeling 8. What would you do in PCA to get the same projection as SVD? Option A: Transform data to zero mean Option B: Transform data to zero median Option C: Transform data to zero max Option D: Not possible 9. A majority of work in R uses systems internal memory and with large datasets, situations may arise when the R workspace cannot hold all the R objects in memory. So removing the unused objects is one of the solution. Which of the following command will remove an R object / variable named "sam" from the workspace? Option A: remove(sam) Option B: m(sam) Option C: Both Option D: None 10. Elementary commands in R consist of either or assignments. Option B: language Option C: expressions	Option D:	we do not reject the null hypothesis when the alternative hypothesis is true		
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Option C: Both Option D: None 10. Elementary commands in R consist of either or assignments. Option A: packages Option B: language Option C: expressions	Option A:	remove(sam)		
Option D: None 10. Elementary commands in R consist of either or assignments. Option A: packages Option B: language Option C: expressions	Option B:	rm(sam)		
10. Elementary commands in R consist of either or assignments. Option A: packages Option B: language Option C: expressions	Option C:	Both		
Option A: packages Option B: language Option C: expressions	Option D:	None		
Option A: packages Option B: language Option C: expressions				
Option B: language Option C: expressions	10.	Elementary commands in R consist of either or assignments.		
Option C: expressions	Option A:	packages		
-	Option B:	language		
Option D: utilstats	Option C:	expressions		
	Option D:	utilstats		

Q2	Solve any Two Questions out of Three	10 marks each
A	Explain Linear discriminant analysis with example.	
B How sentiment analysis can be used for S Explain with example.		media monitoring?
C What infrastructure is most appropriate for Hadoop? Draw and d Hadoop Ecosystem Architecture.		? Draw and describe

Q3	Solve any Two Questions out of Three	10 marks each
A	Explain Probabilistic PCA in detail.	
В	Describe null hypothesis and alternative hypothesis example.	with appropriate
С	Explain the process of content based RS with suitable	example.

Q4	Solve any Two Questions out of Three	10 marks each
A	Draw and describe the information visualization process.	
B Discuss characteristics of Big Data. How Data Science is different Big Data and Data Analytics?		cience is different from
С	C Explain singular value.decomposition (SVD) with an example	

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1	The people who are entitled to apply for the registration of the copyright are
Option A:	assignee and licencee
Option B:	Author or artist
Option C:	Composer & producer
Option D:	All above
	¥ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
2.	Sectionprovides the inventions which are not patentable under the patent Act.
Option A:	Section 3 & 4
Option B:	Section 5
Option C:	Section 20
Option D:	All above
	4288000 B B B B B B B B B B B B B B B B B
3.	Which of the following is not an instrument of IPR?
Option A:	copyright
Option B:	Land record
Option C:	Patents Patents
Option D:	Trademarks
	7. 4. 4. 5. 4. 5. 4. 5. 4. 5. 6. 8. 5. 6. 8. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.
4.	The description of Patent is called
Option A:	Draft OSSANTESANTESANTESANTESANTESANTESANTESANT
Option B:	Specification
Option C:	Assignment
Option D:	License
	9,438,890,684,895,888,8,48,42,
5	The infringement of copyright may attract punishment with fine which may extend up to
Option A:	Rs 2 Lac to 3 Lac
Option B:	Rs. 10 Lac
Option C:	Rs. 50000 to Rs 2 Lac
Option D:	Rs 1 Crore
6.0	The patent right gives an exclusive right to the patent to gain out of his invention.
Option A:	Monitory benefit
Option B:	Personal benefit
Option C:	Reputation in society
Option D:	All above
1250000	
20,270,66	What protects the intellectual property created by Poetry writer?
Option A:	copyright
Option B:	Registered designs
Option C:	Patents
Option D:	Trademarks
\$7.4.5.5.0E	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
8.50	The new requirement for the patentable of the invention is
Option A:	Marketable
Option B:	Non obivious
Option C:	Profitable
Option D:	Inventive steps
00000000	D. S.

9.	Trademark is used for	£7,338,58,838,58
Option A:	It identifies the product and its origin.	\$8\$\ZD\Z\$\Z
Option B:	Earning the money from rent	\$\Z\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Option C:	Keeping business secrete	2337238423
Option D:	All above	65,55,55
10.	The term of patent shall be years	
Option A:	10	
Option B:	30	
Option C:	2-3	
Option D:	20	

Q2	Solve any Two Questions out of Three 10 marks each
A	Discuss filling of Patents through PCT route
В	With the help of example explain in detail Patentable and non-patentable inventions
С	List out the purposes for which fair use of copyright work is permitted

Q3	Solve any Two Questions out of Three 10 marks each		
A	What is copyright? Give the remedies for the infringement of copyright.		
В	What is GI? List down prohibited GI in India.		
С	Explain Multilateral treaties where India is a member (ex. TRIPS agreement, Paris convention)		
	convention)		

Q4	Write short notes on any two Questions out of three	10 marks each
A	Patent Litigation process	
В	WIPO	
С	PCT - S S S S S S S S S S S S S S S S S S	