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MLBA (2021) Quiz2

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MLBA (2021) Quiz2

This question paper have 20 questions, each question carry 1 marks. Please make sure you are submitting this form using your IIITD email ID.

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Questions section

Each question have four options, you have to select one best answer. Attempt all questions.

Which of the following software is used for homology and similarity search? *



- ☒ BLAST
- ☐ RasMol
- ☐ EMBOSS
- ☐ PROSPECT

Main database (DNASET) of DNABinder contain : *

- ☐ 1153 DNA binding protein and 1153 Non-binding proteins
- ☒ 92 DNA binding proteins and 100 Non-binding proteins
- ☐ 146 DNA binding proteins and 250 Non-binding proteins
- ☐ 100 DNA binding proteins and 250 Non-binding proteins

Which web server can be used for predicting interacting pair of proteins *

- ☐ ProProPair
- ☐ ProProInt
- ☒ ProPrInt
- ☐ Pprint

Which of the following is not residue level annotation of a protein *

- ☐ Surface accessibility of residues
- ☐ Prediction of evolution of a protein
- ☐ ATP interacting residues in a protein
- ☒ Prediction of post translation modifications

What is euclidean distance between point (4, 1) and (1, 5). *

- ☐ -1
- ☐ $\sqrt{5}$

- ☐ $\sqrt{2}$
- ☒ 5

Which is not feature generation module of Pfeature? *

- ☐ Composition
- ☒ Vaccine design
- ☐ Binary profile
- ☐ Evolutionary information

Which function of Pfeature measure distribution of amino acids in a protein? *

- ☐ PSSM
- ☐ RRI
- ☐ DDOR
- ☒ Shannon Entropy

Calculate RRI (residue repeat information) for amino acid "A" in the sequence "GAAARGRGAAARDERTG" : *

- ☐ 1
- ☐ 2.6
- ☒ 3
- ☐ 5

Calculate amino acid composition for amino acid "W" in "WAGTWSALWW" *

- ☐ 50%
- ☒ 40%
- ☐

- ☒ 30%
- ☐ 20%

What is the full form of PSSM? *

- ☐ Pattern scoring similarity matrix
- ☐ Position scoring similarity matrix
- ☒ Position specific scoring matrix
- ☐ Pattern similarity substitution matrix

How many bi-grams can be generated from given sentence: "MLBA course is a good source to learn machine learning". *

- ☐ 7
- ☒ 8
- ☐ 9
- ☐ 10

Which of the following is not a characteristic of a drug ?

- ☐ Kill foreign invader pathogens
- ☒ generate memory cells
- ☐ inhibit growth of the pathogens
- ☐ Control the function of the target

Which of the following is a webserver for designing DNA-based adjuvants?

- ☐ VaccinePAD
- ☐ VaccineDA
- ☐ DNAVaxDB

☒ VacDA

Which of the following is not a component of innate immunity ?

- ☐ macrophages
- ☐ granulocytes
- ☒ antibodies
- ☐ eosinophils

THPdb contain information on following

- ☐ Carbohydrate based vaccines
- ☐ Small chemical based therapeutics
- ☒ Protein based therapeutics
- ☐ Lipid based drugs

Which database maintain cell penetrating peptide?

- ☐ CellPenDb
- ☒ CPPSite
- ☐ TumorHope
- ☐ CellPPdb

A 4-input neuron has weights 1, 2, 3 and 4. The transfer function is linear with the constant of proportionality being equal to 2. The inputs are 4, 10, 5 and 20 respectively. The output will be:

- ☒ 238
- ☐ 76
- ☐ 119
- ☐

Following equation represent:

$$\Pr(x) = \Pr(x_L | x_{L-1}) \Pr(x_{L-1} | x_{L-2}) \dots \Pr(x_2 | x_1) \Pr(x_1)$$

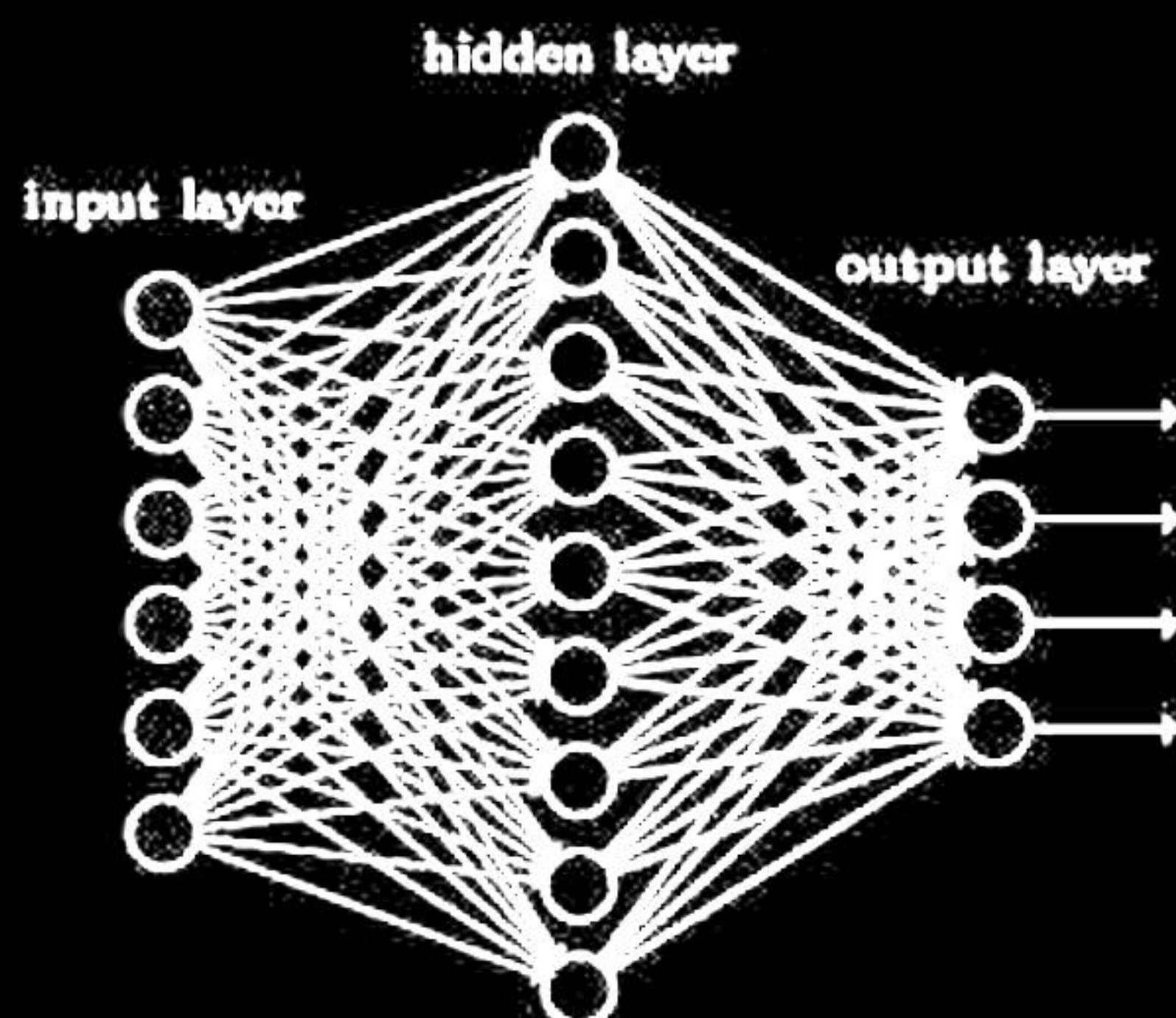
- ☒ Lth order Markov chain
- ☐ Support vector machine function
- ☐ 1st order Markov chain
- ☐ Perceptron sigmoidal function

In ANN following function for weight optimisation is called

$$w \leftarrow w - \eta \frac{\partial}{\partial w} f(w)$$

- ☐ Least Mean Square
- ☐ Gradient ascent
- ☒ Gradient descent
- ☐ Least square function

How many hidden units are shown in following picture of ANN



- ☐ 6

- ☒ 9
- ☐ 4
- ☐ 19

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