BIO542: Machine Learning for Biomedical Applications (MLBA) (25th September 2024, Quiz 2)

Maximum Marks: 20		Duration: 20 Minutes		
Name: Admission		Imission No:		
Ins	tructions: Attempt all questions; each quest	cion carries one mark.		
1.	Proteins are made of natural amino ac	ids ?		
	A) 10	C) 20		
	B) 15	D) 22		
2.	Which of the following is not a macromolecule?			
	A) Protein	C) Lipid		
	B) Amino acid	D) Carbohydrates		
3.	Which of the following database contain structure of proteins?			
	A) PIR	C) GenBank		
	B) STRING	D) RCSB-PDB		
4.	Which of the following is an example of residue level annotation?			
	A) Prediction of DNA binding proteins	C) Prediction of RNA binding protein		
	B) Prediction of protein subcellular lo	cation D) Prediction of ATP interacting residues		
5.	Which software used to predict interacting protein pairs?			
	A) ProPrint	C) DNAbinder		
	B) ATPint	D) Pprint		
6.	Main dataset of DNAbinder contain DNA binding proteins.			
	A) 200	C) 5051		
	B) 14021	D) 146		
7.	What is percent composition amino acid "A	A" in following sequence "PAQAVAGLAR"?		
	A) 61	C) 40		
	B) 60	D) 20		
8.	What is percent dipeptide composition of '	'AC" in following sequence "RACGHMSKLAC"		
	A) 10	C) 30		
	B) 20	D) 40		
9.	In Pfeature, which atom is not used for atom composition (ATC)?			
	A) Hydrogen	C) Sodium		
	B) Sulphur	D) Nitrogen		
10.	Tripeptide composition of a protein contain features.			
	A) 20	C) 200		
	B) 8000	D) 400		
11.	What is the success rate of biologics moving from Phase I to Phase II clinical trials?			
	A) ~63%	C) ~84%		
	B) ~74%	D) ~53%		

12.	THPdb2	2 contain total entries around?	
	A) 5	500	C) 5000
	B) 1	1500	D) 15000
13. Insulin is used for the treatment of diabetes patients, Insulin comes under $_$			s, Insulin comes under
	A) (Group 1	C) Group 2
	B) (Group 3	D) Group 4
14.	Which	of the following is not a epitope?	
	A) l	Linear B-cell epitope	C) Conformational B-cell epitope
	B) 7	Г-cell epitope	D) R-epitope
15.	15. Which of the following COVID-19 vaccine is based on traditional approach (Whole Organis		
	A) (COVAXIN	C) Covishield
	В) [Moderna COVID-19 Vaccine	D) Pfizer-BioNTech COVID-19 Vaccine
16. Which of the following is a B-cell epitope prediction method?			method?
	A)	ABCpred	C) CTLpred
	B)	Propred	D) BClpep
17.	17. Which database contain peptides that can be used to deliver drugs		
	A)	DrugPep	C) CPPsite
	B)	PDB	D) ViralVacDB
18. Which software can be used to design peptides that specifically bind to to			hat specifically bind to tumor
	A)	TumorHope	C) CellPPD
	B)	TumorPEP	D) TumorHPD
19. Which server is used for predicting peptides that can lyse red blood cells			t can lyse red blood cells
	A)	HemoPI	C) PepLife
	B)	HemolytiK	D) BloodPred
20. Which of the following webserver/database is not related to vaccine adjuvants			ot related to vaccine adjuvants
	A)	PRRDB	C) VaxinPAD
	B)	CTLpred	D) VaccineDA