BIO543: Big Data Mining Healthcare (15th April 2024, Quiz3)

Maximum Marks: 20		Duration: 20 Minutes	
Na	ame:	Admission No:	
	structions: Attempt all questions, each question tion.	a carry one mark. Please tick only best possible	
1.	Which of the following software is best software	are for big data mining?	
	a) Scikit learn	c) Weka	
	b) Mahout	d) MySQL	
2.	Which component of the Hadoop ecosystem is used for scripting?		
	a) Mahout	c) Pig	
	b) Hive	d) Ambari	
3.	Which of the following is not part of search er	ngine (Lucene)?	
	a) Crawling	c) Indexing	
	b) Ranking	d) Embedding	
4.	What type of files are not extracted or analyze by Lucene search engine?		
	a) PDF	c) TIFF	
	b) XML	d) MS Word	
5.	What is purpose of shingling?		
	a) Convert nucleotides to amino acid	c) Convert SQL to NOSQL	
	b) Convert documents to sets	d) Computing Jaccard similarity	
6.	In which technique similar documents are grouped in buckets for similarity search.		
	a) Min-Hashing	c) Curve clustering	
	b) LSH	d) BLAST	
7. What will be Jaccard similarity between set (1		,1,0,0,1,1) and (1,0,1,1,1,1)?	
	a) 0.5	c) -0.75	
	b) 0.75	d) 1.0	
8.	In which technique, large sets are converted to	technique, large sets are converted to short signature.	
	a) Shingling	c) Word embedding	
	b) RNA-seq	d) Min-Hashing	
9.	In LSH, if document C1 and C2 have similar probability that C1 and C2 will be in same bar	arity 0.80 or more, b=20, r=5, what is percent ad.	
	a) 100 %	c) > 99.96%	
	b) < 95.00%	d) < 90.25%	

10. Which of the following is not part of cancer hallmarks?			ks?	
	a)	Evading growth suppressors	c) Resisting cell death	
	b)	Maintaining apoptosis	d) Inducing angiogenesis	
11. Study of all mRNA molecules in a cell is called.				
	a)	Genomics	c) Proteomics	
	b)	Epigenomics	d) Transcriptomics	
12.	Which	technique all to measure relative gene expres	sion (e.g. disease vs healthy)?	
	a)	cDNA microarray	c) Affymetrix	
	b)	RNA-seq	d) DNA-seq	
13.	Which	hich of the following is used for prioritization of anticancer drugs in CancerDP?		
	a)	Transcriptomics	c) Epigenomics	
	b)	Glycomics	d) Metabolomics	
14. Which of the following database do not contain gene expression information?			e expression information?	
	a)	GEO	c) ArrayExpress	
	b)	Uniprot	d) TCGA	
15.		n which stage you will classify a cancer patient who have single tumor that has not grown ato any blood vessels?		
	a)	Late-stage	c) Stage-I	
	b)	Stage-IV	d) Stage-II	
16.	Which	ch of the following is simple feature not ML/DL trained features?		
	a)	FastText	c) Word2Vec	
	b)	GloVe	d) TF-IDF	
17. Which of the following software used large language model for predicting protein		e model for predicting protein structures?		
	a)	AlphaFold	c) HHpred	
	b)	Modeller	d) Robetta	
18. Which of the following is not part of large language models		of the following is not part of large language	models	
	a)	Transition probabilities	c) Pre-trained models	
	b)	Attention	d) Fine tuning of models	
19.	Which of the following approach is not used in large language model?			
	a)	Sentence correction	c) Text completion	
	b)	Text translation	d) Text similarity	
20.	Which company developed large language model "Go AI"?			
	a)	OpenAI	c) DeepMind	
	b)	Meta	d) Google	