BIO543: Big Data Mining Healthcare

(6th February 2025, Quiz1)

Maximum Marks: 20	Duration: 20 Minutes	
Name:	Admission No:	
Instructions: Attempt all questions, each	ch question carry one mark. Please tick only one best option	
Which of the following contain genetic information in humans?		
a) Proteins	c) Chromosomes	
b) Lipids	d) Carbohydrates	
2. What is the "start" codon in translation	n?	
a) UGA	c) UAA	
b) AUG	d) UAG	
3. Proteins are made of types of natu	ral amino acids.	
a) 4	c) 16	
b) 20	d) 64	
4. Which of the following is used to cut	DNA at specific sites?	
a) DNA polymerase	c) RNA polymerase	
b) Restriction enzyme	d) Telomerase	
5. How many PCR cycles are required to	o produce 32 duplexes starting from 2 duplexes?	
a) 3	c) 5	
b) 4	d) 6	
6. Which of the following atoms is NOT	a part of proteins?	
a) Carbon	c) Hydrogen	
b) Oxygen	d) Phosphorus	
7. Which of the following contain Sulfu	r?	
a) Protein	c) DNA	
b) RNA	d) Lipid	
8. Which Docker command is used to li	st all running containers?	
a) docker images	c) docker list	
b) docker ps	d) docker run	
9. Which of the following is not a Unix	shell?	
a) bash	c) ksh	
b) tesh	d) ush	
10. Which of the following is NOT a va	lid Python data type?	
a) List	c) Dictionary	
b) Tuple	d) Array	
11. Which pandas function is used to re	ad a CSV file?	
a) pd.open_csv()	c) pd.read_csv()	
b) pd.load_csv()	d) pd.import_csv()	
12. Which of the following is not a func	tion of NumPy?	
a) multiply()	c) upper()	
b) binomial()	d) randint()	

13.	3. Which Python library is commonly used for data visualization?		
	a) Scikit-learn	c) NumPy	
	b) Seaborn	d) Pandas	
14.	14. Which of the following is NOT a major repository for healthcare?		
	a) IEDB	c) GEO	
	b) PRRDB	d) SCOPUS	
15.	15. Which repository is used for medical imaging data?		
	a) TCIA	c) UniProt	
	b) PubMed	d) PDB	
16. The FDA and PubChem databases are mainly used for maintaining information on:			
	a) Vaccine candidates	c) Chemical drugs	
	b) Genetic sequences	d) Microbial genomes	
17.	COVAXIN is a based vaccin	e	
	a) Recombinant protein	c) Epitope	
	b) DNA	d) Whole organism	
18. Which database maintains human GAIT data?			
	a) PhysioNet	c) TCGA	
	b) ThpDB	d) OMIM	
19.	19. Which of the following web server is used in computer-aided vaccine design?		
	a) IL6pred	c) 1mg	
	b) b3pred	d) CancerEnd	
20. Which of the following database contain drug like molecules?			
	a) B3pdb	c) ChEMBL	
	b) CancerCSP	d) IEDB	