Exam Date & Time: 30-Sep-2020 (02:00 PM - 05:45 PM)



PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image: 30mins+ Grace Time: 15mins

MSc DEGREE EXAMINATION MAY 2020 (Fourth Semester)

Branch - APPLIED MICROBIOLOGY

DISCIPLINE SPECIFIC ELECTIVE - II - INTRODUCTION TO BIOINFORMATICS [19MBP23A]

Ans	SECTION - A wer all the questions.	: 225 mir
1)	Each record in a database is called an (i) Entry (ii) File (iii) Record (iv) Ticket	(1)
2)	All of the following are protein sequence databases except (i) PIR (ii) PSD (iii) SWISS PROT (iv) EMBL	(1)
3)	Which of the following is a sequence alignment tool? (i) BLAST (ii) PRINT (iii) PROSITE (iv) PIR	(1)
4)	The procedure of aligning many sequences simultaneously is called (i) Multiple sequence alignment (ii) Pairwise alignment	
	(iii) Global alignment (iv) Local alignment	.(1)
5)	When a phylogenetic tree consider as rooted one? (i) extends back to origin (ii) base is located the common ancester (iii) illustrate the rampant gene swap	,
	(iv) with very few branch points	(1)
)	Species that are not closely related and that do not share many anatomical similarities can still be placed together on the same phylogenetic tree by comparing their (i) Plasmid (ii) Mitochondrial genome	(1)

State out any one pathway analysis in Bioinformatics.

Justify wet experiments provide better results in biological research.

a)
[OR]

b)

14)

(5)

(5)

(5)



		25/61
11/28/2020	19MBP23A	
a)		A.
[OR] b)	Discuss in short about protein coding genes.	(5)
15)	Sketch out base covariance models.	
		(5)
a)		
[OR] b)	Organize your views on transcriptomics.	(5)
	SECTION - C	
Answer all	the questions.	
16)	Categorize different database tables with examples.	
		(8)
a)		
[OR]	Evaluate the advantages and applications of DDBJ.	
b)		(8)
17)	Analyze the needs of pairwise sequence alignment.	
		(8)
a)		(0)
[OR]	Enumerate on suitable method for scoring an alignment.	
b)	Endine on surface method for scoring an angiunent.	(8)
18)	Give critical comment on UPGMA.	
	GIVE CHARGE COMMICH OF CIVILIA.	(0)
		(8)
a)		
[OR] b)	Classify different types of phylogenetic tree.	(8)
19)	Compare prediction and simulation with suitable examples.	
		(8)
a)		
[OR]	Design functional annotations of EST cluster.	(8)
b)		
20)	Elucidate in brief about Abinitio prediction.	
		(8)
a)		
[OR]	Differentiate synthetic biology with systematic biology.	(8)
b)		(8)
End		
LIII		