Exam.Code:0435 Sub. Code: 3468

2012

M. Sc. (Biotechnology) First Semester MBIO-104: Computer Applications

Time allowed: 3 Hours

Max. Marks: 80 NOTE: Attempt five questions in all, including Question No. 9 (Part-E) which is compulsory and selecting one question each from Part A-D.

1)		PART-A													
	a) b)	Name the three major components of CPU and briefly identify their responsibilities What is computer memory hierarchy that might be found on a modern computer? need it? Explain.											Why d (8, 8)	o we	
2)	a) b)	What is the role of flowchart in problem solving on computers? Draw a flowchart to check whether a positive integer number N is prime or not. Convert the 567.75 in decimal number system to equivalent binary number system. (8, 8)													
-		PART-B													
3)	a)	a) List and explain relational, arithmetic and logical operators in 'C' and their execution of with examples.													
842	b)		it number.		(8, 8)										
4)	a)	What is an array? Write a C program using array to find largest and smallest number from a													
	b)	list of 100 given numbers. What do you mean by file handling? Define the file reading and file writing operation Language, by taking suitable examples.											tions : (8, 8)	in C	
			00-20 00 0000 0		P			OT C					(0, 0)		
5)	5) a) What is Internet? Explain various services offered by the Internet.													-	
	b)	What is spreadsheet software? Explain various financial functions (built-in) in spreadsheet software that you have used. (8, 8)													
6)7)	a) b)	Explain the Mail Merge operation in MS-Word. What are the steps involved in Mail Merge? What is the purpose of Presentation Software? Explain the features provided by MS PowerPoint. (8, 8)													
',	<u>a)</u>	The marks secured by recruits in the selection test (X) and in the proficiency test (Y) are given below:													
		X :	10	15	12	17	13	16	24	14	22			8	
		Y:											F	1	
	 Y: 30 42 45 46 33 34 40 35 39 Calculate Karl Pearson's correlation coefficient. b) Calculate the standard deviation if the mean of a certain set of observations is 20 and a 														
		of the squares of the same observations is 500.											(8, 8)	ican	
8)	a)	plain the following with examples: Statistical Hypotheses Testing using t-test												el el	
9)	b)	b) Bubble Sort PART-E													
 a) What is a low-level computer programming language? What are its features' b) What is the advantage of using functions in 'C'? 												?			
	d)	What is meant by data structures? Give examples. Define continuous and discrete variable. Give examples. (4x4=1)													