



## **BRAINWARE UNIVERSITY**

## Term End Examination 2023-2024 Programme – B.Sc.(BT)-Hons-2023 Course Name – Computer Application for Biotechnology Course Code - BBT10001 ( Semester I )

	Marks: 60		Time : 2:30 Hours		
l	The figure in the margin indicates full marks. Cand		answers in their		
	own words as far	as practicable.]			
	Group	o-A			
	(Multiple Choice T	ype Question)	1 x 15=15		
1.	Choose the correct alternative from the following	g:			
(i)	Identify the Excel function that could be used to calculate the mean growth rate of a bacterial culture.				
	a) AVERAGE	b) MEAN			
	c) GROWTH	d) RATE			
(11)	(ii) Identify the device that accepts input, processes data, stores data, and produces output				
	among the following:				
	a) Television	b) Radio			
	c) Computer	d) Smartphone			
(iii)	iii) Identify the component responsible for processing data in a computer:				
	a) Hard Disk Drive (HDD)	b) Central Processing Unit (CPI	٦)		
	c) Random Access Memory (RAM)	d) Power Supply Unit (PSU)			
(iv)	Google Chrome is an example of software.				
	a) System Software	b) Utility Software			
	c) Database	d) Application Software			
(v)	Convert 256 kilobytes into megabytes.	,			
,	a) 256 Megabytes	b) 2.56 Megabytes			
	c) 25.6 Megabytes	d) 0.25 Megabytes			
(vi)	What is the output of the following code snippe	, .			
	a) 2	b) 3			
	c) 0	d) 1			
(vii)	Determine the invalid variable name from the following in Python.				
	a) my_variable	b) _variable			
	c) 123variable	d) variable123			
(viii)	Determine the value of x after executing the fo	llowing code? $x = 10$ if $x > 5$ : $x = 1$	+= 5 else:		
-	x -= 5 print(x)				

a) 5

b) 10

c) 15	d) 20			
<ul><li>(ix) Determine the output of the following code sni print(y)</li></ul>				
a) [1,2,3]	b) [1,2,3,4]			
<ul><li>c) 4</li><li>(x) Which of the following statements is used to ex</li></ul>	d) Error it from a loop in Python?			
a) break	b) continue			
c) pass	d) exit			
(xi) How can we define a worksheet in Excel?				
<ul> <li>a) A collection of cells where data is entered and manipulated</li> </ul>	b) A tool for creating graphs and charts			
c) A type of data format used in Excel	d) A function that performs calculations data	s on		
(xii) Identify the statement that best describes a fea				
a) Excel is a word processing software	b) Excel is a software for creating anima	itions		
<ul> <li>c) Excel is a spreadsheet software that allows for data manipulation and analysis</li> </ul>	d) Excel is a software for creating music			
(xiii) Distinguish between absolute and relative cell r	eferences in Eyeol			
a) Absolute reference is when the row and				
column references change when copied.	<ul> <li>b) Absolute reference is when the row a column references remain constant w</li> </ul>	and whon		
while relative reference is when they	copied, while relative reference is wh			
remain constant c) Absolute reference is a type of formula,	they change			
while relative reference is a type of function	d) Absolute reference is a type of chart,	while		
(xiv) What is a computer?	relative reference is a type of graph			
a) A device that can be instructed to carry out	b)			
sequences of arithmetic or logical	•			
operations automatically via computer programming	A device that can only perform calcula	ations		
c) A device that can only access the internet	d) A device that can only play games			
(xv) Which feature in Windows 10 allows you to mai	nage and arrange open windows?			
a) Task View	b) Cortana			
c) Edge Browser	d) Action Center			
Grou	n-B			
(Short Answer Ty	una Ouastia)	x 5=15		
		× 3-13		
2. Demonstrate how would you identify and handle r	nissing data in an Excel dataset?	(3)		
3. Using the data given below, construct a bar graph a bar graph using Excel.	and write down the steps of creating such	(3)		
4. What is the primary function of the Central Proces	sing Unit (CPU) in a computer?	(2)		
3. Explain the difference between RAM (Random Acc	ess Memory) and ROM (Read-Only	(3) (3)		
Memory).		(-7		
<ol><li>Illustrate the difference between a shallow copy as suitable example code.</li></ol>	nd a deep copy of a list in Python, with	(3)		
OF				
Develop a python program to calculate and display	the first n fibonacci terms.	(3)		
Grou				
(Long Answer Type Questions) 5				
7. How do you greate a feet least to Ball and the				
<ol> <li>How do you create a for loop in Python to iterate</li> <li>Explain the difference between a list and a tuple</li> </ol>	over a list?	(5)		
	, chon.	(5)		

d) 20

Explain the concept of variable scope in Python, including global and local scope.
 Describe the concept of variable packing and unpacking in Python with examples.
 Create a Python program that calculates the factorial of a given number. Ask the user for an (5) integer input and compute its factorial.
 Provide an overview of the key features of the Windows 10 operating system.
 OR
 Explain the role of cache memory in a computer system, its hierarchy, and its impact on overall system performance.