

Total No. of Questions: 6

Total No. of Printed Pages: 2

Enrollment No.....



Faculty of Science
End Sem Examination May-2024
BT3SE01 Computer for Biologists

Programme: B.Sc.

Branch/Specialisation: Biotechnology

Duration: 3 Hrs.**Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. The brain of any computer system is- **1**
(a) ALU (b) Memory (c) CPU (d) Control unit
- ii. A computer consists of- **1**
(a) A central processing unit (b) A memory
(c) Input and output unit (d) All of these
- iii. Any number with an exponent of zero is equal to- **1**
(a) Itself (b) Ten (c) Zero (d) One
- iv. ASCII Stand for: **1**
(a) American Stable Code for International Interchange
(b) American Standard Code for Institutional Interchange
(c) American Standard Code for Information Interchange
(d) American Standard Code for Interchange Information
- v. Which is used for manufacturing chips? **1**
(a) Bus (b) Control unit
(c) Semiconductors (d) Both (a) and (b)
- vi. Which one is secondary storage? **1**
(a) RAM (b) Hard Disk (c) ROM (d) BIOS
- vii. The C language consist of ____ number of keywords. **1**
(a) 32 (b) 40 (c) 24 (d) 56
- viii. Which of the following are tokens in C? **1**
(a) Keywords (b) Variables (c) Constants (d) All of these
- ix. Array index start at- **1**
(a) 1 (b) User defined
(c) 0 (d) None of these
- x. The format specifier to accept a string is- **1**
(a) %c (b) %d (c) %f (d) %s

- Q.2 i. What is input device? **2**
ii. Explain computer generations. **3**
iii. Explain basic components of a digital computer. **5**
OR iv. Write short notes on: **5**
(a) CRT Monitor (b) LCD Displays
- Q.3 i. What is 2's complement with example? **2**
ii. Explain number system and its type with example. **8**
OR iii. Write short notes on: **8**
(a) Overflow & underflow (b) ASCII
- Q.4 i. Write the differences between RAM and ROM. **3**
ii. Write short notes on: **7**
(a) Memory Hierarchy (b) Auxiliary Memory
OR iii. Explain magnetic memories and hard disk. **7**
- Q.5 i. What is variable and constant? **4**
ii. Define operator in C language and its types. **6**
OR iii. Write differences between for, while and do-while loop with syntax. **6**
- Q.6 Attempt any two: **5**
i. Define array and its types with syntax. **5**
ii. Define Strings and basic operations on strings with syntax. **5**
iii. Write a C program to generate fibonacci series using recursion. **5**

Marking Scheme

Computer For Biologists (T)- BT3SE01

Q.1	i)	C) CPU	1
	ii)	D) All of the above	1
	iii)	D) one	1
	iv)	C) American Standard Code for Information Interchange	1
	v)	C) Semiconductors	1
	vi)	B) Hard Disk	1
	vii)	A) 32	1
	viii)	D) All of the above	1
	ix)	C) 0	
	x)	D) %s	
Q.2	i.	Defination of input device and name	1+1
	ii.	Explain Computer Generations and its type	1+2
	iii.	Defination of digital comuter and components	2+3
OR	iv.	1) CRT Monitor, 2) LCD Displays	2+3
Q.3	i.	Defination 2's complement with example	1+1
	ii.	Define Number system and its type with example?	3+5
OR	iii.	Explain 1) Overflow & underflow 2) ASCII	4+4

Q.4	i.	Explain RAM and ROM ?	3
	ii.	Explain 1) Memory Hierarchy 2) Auxiliary Memory	3+4
OR	iii.	Explain Magnetic Memories and Hard Disk	3+4
Q.5	i.	Define variable and constant	2+2
	ii.	Defination Operator in c language and its types.	2+4
OR	iii.	for, while and do-whille loop with syntax?	2+2+2
Q.6			
	i.	Defiation of array and its types with syntax?	1+4
	ii.	Define Strings and basic operations on strings with syntax?	1+4
	iii.	Write a C program to generate fibonacci series using recursion header block-2 Logic-2 Output-1	2+2+1
