SAM HIGGINBOTTOM UNIVERSITY OF AGRICULTURE, TECHNOLOGY AND SCIENCES DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY, VIAET

END-TERM EXAMINATION, DECEMBER 2021 B.Tech-CSE, Ist Semester

COURSE CODE: CSIT-308 COURSE TITLE: Problem Solving & Programming in C Note: Attempt all the questions. Your answers should be accurate a	TIME: 2 Hrs. MARKS: 100 nd precise.
Fill in the blanks:	$(2 \times 5 = 10)$
Q1. Which operator in C is called as assignment operator	
Q2. Operating system acts as interface between user and	
Q3. Array are used to allocate memory	
Q4. The address of a variable is obtained by operator.	
Q5. In C language $x - = y + 1$; means as	
Multiple Choice Questions:	$(2 \times 5 = 10)$
Q6. The C programs are converted into assembly language using a) an assembler b) a compiler c) an interpreter d) ar Q7. In a array X[10] the X represents the	n operating system
a) base address b) base value c) void pointer Q8. The array combines variables of	d) none of the above
a) dissimilar data types b) similar data types c) unsigned data ty Q9. Which is the correct way to declare a pointer	pes d) none of these
a) int *ptr b) *int ptr c) int ptr*	d) int ptr x
Q10. Each case statement in switch() is separated by a) break b) continue c) exit() d) goto	, <u>–</u>
True/False:	$(1 \times 5 = 5)$
Q11. Logical errors will be detected by the compiler. Q12. A Function can call another function. Q13. Then is a reserved word in C language. Q14. The % (modulus operator) cannot be applied with floating point o Q15. Two-dimensional array is also called matrix.	perands.

Short Answer Type Questions:	$(5 \times 5 = 25)$
Q16. Differentiate between machine, assembly and high-level language.	
Q17. Explain different types of operator supported by C.	
Q18. Write a program to read any ten and display the number using array.	
Q19. Write short notes on file handling.	
Q20. Define sorting. Write key points of selection sort.	
Long Answer Type Questions: (50 Marks)	
Q21. What is dynamic memory allocation? What are the various dynamic memallocation functions?	nory [7]
Q22. Write a program to swap two numbers using third variable.	[7]
Q23. What is a pointer? What is its use? What are the features of a pointer?	[9]
Q24. What is the difference between while loop and do while loop with examp	ole? [9]
Q26. What do you understand by C Token? Explain with example.	[9]
Q25. What is a function? What do you mean by the following: 1) Function declaration 2) Function calling 3) Function definition	[9]