## National Institute of Technology Silchar Minor Test II, May' 2022

Comparton, 9th	Languages
Semester: 8 <sup>th</sup> , Department: Computer Science and En Duration: 20 min(Upload time included), Total N	Marks: 10
Total 1	viaiks. 10
Figure in the right hand margin indicates full marks for the question.  All questions are compulsory.	
1. Choose the correct option:	
<ul> <li>(a) Activation records are created</li> <li>(A) During execution time only.</li> <li>(B) During translation time only.</li> <li>(C) One during translation and rest during execution time.</li> <li>(D) Execution or translation time as instructed by the programmer.</li> </ul>	
<ul> <li>(b) Garbage collection</li> <li>(A) Throws away garbage blocks from memory.</li> <li>(B) Cannot remove dangling references.</li> <li>(C) Concerned with unused memory blocks of a program.</li> </ul>	
	$1 \times 2)$
2. Choose the best option for the following:	
(i) Inheritance best associates with the property of (a) Encapsulation (b) Abstraction (c) Polymorphism (d) Hierarchy	
(ii) Encapsulation is not  (a) Information Hiding (b) Inheritance (c) Data abstraction (d) Subprogram implement	ation (2)
3. Fill in the blanks	
(a) In an activation record the static link is the dynamic link is	
(b) The of an auto variable in C declared in main is the entire program execution time. Althous is only the main function.	gh its
	$2 \times 2$ )
4. Consider the following code: int main() {     int a = 10, fact;     fact = factorial (a);     }	
How many activation record will be active for factorial function if it is	
(a) iterative	
(b) recursive	
(	$1 \times 2)$