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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SEVENTH SEMESTER B.TECH DEGREE EXAMINATION(S), MAY 2019

Course Code: CS403

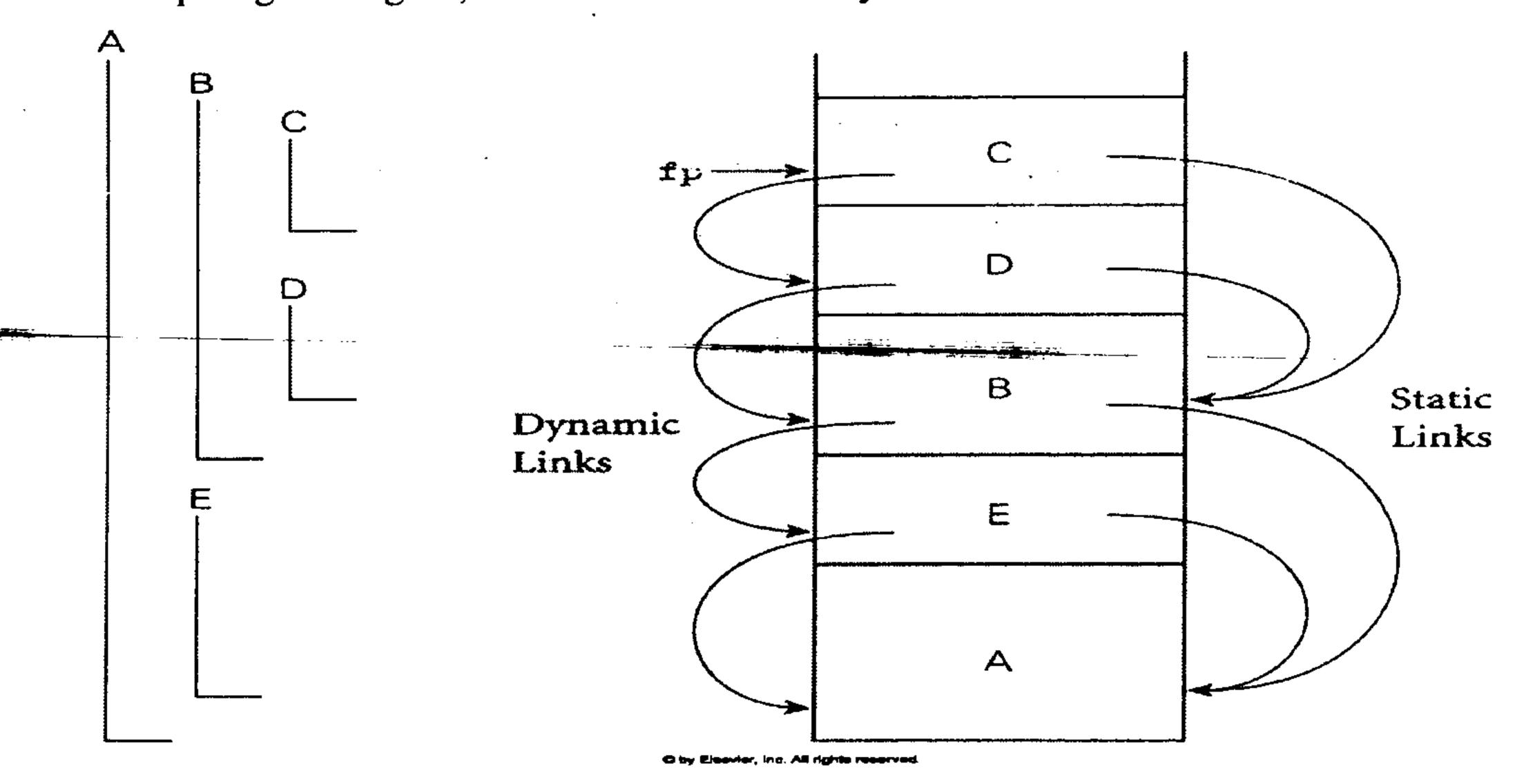
Course Name: PROGRAMMING PARADIGMS

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Max. I	Marks: 100 Duration: 3	Hours
	PART A Answer all questions, each carries 4 marks.	Mark:
1	What is binding time? Explain the distinction between the lifetime of a name to object	(4)
	binding and its visibility.	
2	Does C have enumeration controlled loops? Explain.	(4)
3	What is a dope vector? What purpose does it serve?	(4)
4	What is a higher order function? Give three examples.	(4)
5	What are facts, rules and queries?	(4)
6	How does an in-line subroutine differ from a macro?	(4)
7	Explain how reader writer lock differs from a normal lock.	(4)
8	What is busy waiting? What is its principal alternative?	(4)
9	Does a constructor allocate a space for an object? Explain.	(4)_
10	What is a V-table? How is it used?	(4)
	PART B Answer any two full questions, each carries 9 marks.	
11 a)	From the given fragment of code, identify the scope of each names used in code and also define closest nested scope rule. procedure P1(A1: T1);	(6)
	var X : real;	•
	procedure P2(A2 : T2);	
	procedure P3(A3 : T3);	
	begin (* body of P3 *) end;	
	begin (* body of P2 *) end;	
	procedure P4(A4 : T4);	

function F1(A5:T5):T6;
var X:integer;
...
begin
... (* body of F1 *)
end;
...
begin
... (* body of P4 *)
end;
...
begin
... (* body of P1 *)
end;

b) C language is not a strongly typed language. Can you give the reason that prevents C (3 to be strongly typed language?





b) What is the difference between value model of variables and a reference model of (4) variables? Why is the distinction important?

13 a)
Consider the following records of a particular language. Let the size of each char variable be 1 byte, int be 4 bytes and float be 8 bytes.

1) struct student

2) union student

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(3)

Explain the difference between dynamic and static method binding

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 \mathbf{B}

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