SPPU-SE-COMP-CONTENT - KSKA Git

Total		of Questions : 4] SEAT No. : [Total No. Of Pages : 2]] 2
		[6008]-231	
		S.E. (Computer Engineering) (Insem)	
		Principles of Programming Languages	
		(2019 Pattern) (Semester-II) (210255)	
		Hour] [Max. Marks : 30	1
Instri	uction 1)	ons to the candidates: Answer Q1 or Q2, and Q3 or Q4.	
	2) 3)	Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks.	
		6.	
Q 1)	a)	Illustrate the Impact of machine architecture on programming languages.	•
	(i) Hardware ii) Firmware iii) Software [5]	
	b)	List the different classes of binding times Explain with suitable example. [5]	
	c)	Explain any two language paradigms with example. [5]	
Q 2)	a)	List attributes of a good programming language and explain any two in detail. [5]	V
	b)	What are the different ways by which computer might be constructed. Explain with example of web application. [5]	
	c)	Consider the following program code and identify the semantic elements of the programming language along with type of binding. Describe the same. # include < stdio.h > main() { int x,y;	
		# include < stdio.h >	
		main()	
		int x,y;	
		P.T.C)

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```
scan f ("% d % d", & x, & y);
         { int temp;
         temp = x;
         x = y;
         y = temp;
          print f
                                                                          [5]
Q3) a)
         Describe ordinal types: enumeration with 'C++' example.
                                                                          [5]
         What are different parameters passing methods in programming languages
     b)
         with example.
                                                                          [5]
          What are the different primitive data types? Explain with the examples of
     c)
          syntax, size and ranges.
                                                                          [5]
         Explain following concepts with example:
                                                                          [5]
Q4) a)
              Overloaded unary operato
         i)
                                       Short circuit evaluation
         ii)
         What are subprograms? List and explain the design issues for subprograms
    b)
         Write short note on:
    c)
         i)
              Mixed mode Assignment
         ii)
              Unconditional branching.
```