R18 Code No: 155CX JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, February - 2022 PRINCIPLES OF PROGRAMMING LANGUAGES (Common to CSE, IT) Time: 3 Hours Answer any five questions All questions carry equal marks Explain the characteristics of Reliability of a programming language, Compare operational semantics and denotational semantics: How is the order of evaluation of attributes determined for the trees of a given attribute 3. grammar? Explain. [15] Define static, stack-dynamic, explicit heap-dynamic and implicit heap-dynamic variables. What are their advantages and disadvantages? [15] Define shallow and deep binding for referencing environments of subprograms that have been passed as parameters. Describe the actions of the three Java methods that are used to support cooperation 6. synchronization. [15] Write a Scheme function that takes a simple list of numbers as its parameter and returns the largest and smallest numbers in the list. [15] Write a function in LISP to read 'n' positive integers from user and find min, max and 8. average of them. [15]

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