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BACHELOR IN INFORMATION TECHNOLOGY (BIT)

Term-End Practical Examination

00467

SET - 2

June, 2010

CSI-23P : TECHNIQUES OF ARTIFICIAL INTELLIGENCE

Time allowed : 1 hour

Maximum Marks : 30 (Weightage : 15%)

Note : There are *two* questions of **10** marks each in this paper. Both are *compulsory*. Remaining **10** marks are for viva-voce.

Write a function called 'Min-Max' which reads a list of integers and then returns a list 10 of two integers, the first and second elements of which are respectively the minimum and the maximum of the elements in the list.

For example,

(Min-Max '(5 3 -8 7 11 2))

returns the list

(-8 11)

Implement the above-mentioned function in LISP, PROLOG or in C programming language.

2. Write a non-recursive function that reads a positive integer and returns a list of its 10 prime factors (without repetitions) in increasing order.

For example, if the program reads the integer 72, then it returns (2 3).

Implement the above-mentioned function in LISP, PROLOG or in C programming language.

CSI-23P/S2