

B.Sc. (I. T.) Sem. - II (2011 Course) : WINTER - 2018
SUBJECT: STRUCTURE & INTERPRETATION OF PROGRAMS

Day: Tuesday
Date: 27/11/2018

W-2018-1100

Time: 10.00 am to 12.00 Noon
Max. Marks: 40

N.B.:

- 1) Attempt any **FOUR** questions.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Assume suitable data if necessary.
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- Q.1** Explain following functions with two examples each: **(10)**
- i) Map
 - ii) Successor
 - iii) Tail
 - iv) Sort
 - v) Product
- Q.2** Explain the concept of 'Structure of Program'. What is the basic structure of Haskell? **(10)**
- Q.3** Explain a function 'double' that takes a number 'x' as its argument, and produced the result $x + x$. How nested double function works? Explain. **(10)**
- Q.4** Differentiate between 'compiler' and 'Interpreter'. **(10)**
- Q.5** What do you mean by polymorphic type, polymorphic function and polymorphism? Explain by taking suitable examples of appropriate functions. **(10)**
- Q.6** What is 'Parameterization'? Explain partial parameterization in detail. **(10)**

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