B.SC. (I. T.) SEM. - II (2011 COURSE) : WINTER - 2017

SUBJECT: STRUCTURE & INTERPRETATION OF PROGRAMS

Day: **Saturday** Time: **02.30 PM TO 04.30 PM**

Date: **30/12/2017** **W-2017-0869** Max. Marks: 40

N.B.:

1) Attempt any **FOUR** questions.
2) Figures to the right indicate **FULL** marks.
3) Assume suitable data if necessary.

Q.1 Explain following functions with two examples each: **(10)**

i) Round
ii) Sort
iii) Dropwhile
iv) Map
v) Const

Q.2 Explain the concept of 'Structure of Program'. What is the basic structure of Haskell? **(10)**

Q.3 Write a function to check if it is prime or not (in context of Haskell). **(10)**

Q.4 What do you mean by polymorphic type, polymorphic function and polymorphism? Explain by taking suitable examples of appropriate functions. **(10)**

Q.5 What is 'Parameterization'? Explain partial parameterization in detail. **(10)**

Q.6 Differentiate among Min, Minimum, Max and Maximum with suitable examples for each of them. **(10)**