BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATION)

CLASS: BE SEMESTER: VII/ADD BRANCH: CSE SESSION: MO/2018

SUBJECT: CS7101 PRINCIPLES OF PROGRAMMING LANGUAGES

TIME: 1.5 HOURS FULL MARKS: 25

INSTRUCTIONS:

- 1. The total marks of the questions are 30.
- 2. Candidates may attempt for all 30 marks.
- 3. In those cases where the marks obtained exceed 25 marks, the excess will be ignored.
- 4. Before attempting the question paper, be sure that you have got the correct question paper.
- 5. The missing data, if any, may be assumed suitably.

Q1	(a) (b)	What do you mean by "High level language"? Explain the six different paradigms of programming with suitable examples.	[2] [3]
Q2	(a) (b)	What is package? How does ADA language implement package with encapsulation?	[2] [3]
Q3	(a) (b)	What do you mean by "Competing processes"? State the various problems with concurrency.	[2] [3]
Q4	(a) (b)	What is semaphore? How does semaphore help to resolve the shared buffer problem?	[2] [3]
Q5	(a) (b)	What is coercion? Explain context dependent and context independent overloading.	[2] [3]
Q6	(a) (b)	Explain Haskell polymorphic function with a suitable example. Write a program in C++ language to find the minimum of two numbers using class template.	[2] [3]

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