Paper. J

Documentation Research and Training Centre,
Indian Statistical Institute
Foundations of Computer and Information Technology
1st Semester Examination

25th November, 2016   Total: 100 Marks

Time: 10.00 am to 1 pm (3 hrs.)

equal
Answer any **5 questions** each question carries **5 marks**

1. Write short notes on any **three** of the following
   a) Data types in postgreSQL
   b) What is the difference between sorting 'word-by-word' and 'letter-by-letter'? Provide a brief examples
   c) What are the various kinds of editors in Linux and provide the commands for each kind of editor
   d) Describe the environment variables in postgreSQL
   e) Describe the environment variable in Linux

2. Define a minimal data dictionary and also provide the SQL statements for a circulation system of a library to generate overdue reminders to users who have not returned books within 15 days

3. Describe with diagrammatic representation and examples, the various kinds of **join statements**

4. Explain **Regex** with examples

5. What is Hypertext? Enumerate the various tags in HTML

6. What are the broad categories of functions in postgreSQL and explain a few functions with examples

7. What is XML and what is the difference between HTML and XML

8. Write HTML code to generate the following table

ID	OS	Vendor	Version
1	Linux	Redhat	5.1
2		Ubuntu	12.04
3	windows	Microsoft	7
4	Macintosh	Apple	10