**Testing Area: Technical**

The 'Technical Test/Portion' of placement exams assesses your academic learning and knowledge. Generally, IT companies and core companies include technical questions in their written tests. In these tests, the focus is on quizzing the students on his core subject knowledge and assess the amount of academic effort he has put in during his graduation. In general, the questions asked focus on the basics of core subjects, and check your conceptual clarity. The best way to prepare for the technical tests is to review your subjects well and have a grasp of the fundamentals. At times, technical papers pose questions such as constructing a diagram, writing a short code/program, or solving some equations. For computer science students, you should revise flow charting techniques and acquire computer software literacy and the appropriate computer language training. The syllabus of the technical tests for companies varies according to the company domains and requirements. In the following section, you will find a list of representative topics that can be asked in the technical tests for various companies. The topics given below are only a representation of topics and do not include the complete list. 

* **Computer Science/IT:**  
  Various core companies like Microsoft, Oracle, Polaris software, HCL, etc. conduct technical test for computer science and IT engineering candidates. The syllabus generally includes questions from C Language Basics, Data Structures, Database Management System, Networking, Operating systems, JAVA, etc.
* **Electronics & Communication:**  
  Core companies like Siemens, LG, Samsung, Hewlet Packard, etc, conduct electronics and communication paper. The syllabus of this paper includes question from Computer programming, Basic electronics, Analog & Digital electronics, Signals, Control Systems, Microprocessors & Microcontrollers, Communication Networks, etc.
* **Electrical Engineering:**  
  Core companies like BHEL, BEL, SAIL, Schneider Electric, Reliance Communication, Honeywell India, Godrej Electronics, etc, conduct electrical engineering papers. The syllabus of this paper includes question from Network theory, Analog & Digital systems, Electronic devices, Microprocessors, Electromagnetic waves, VLSI systems, etc.
* **Mechanical Engineering:**  
  Core companies like L&T Construction, ONGC, SAIL, TATA group, Trident, Godrej group, etc, conduct mechanical engineering paper. The syllabus of this paper includes question from Thermodynamics, Strength of Material, Machine Drawing, Theory of Machines, Automobile, Fluid Mechanics, Heat transfer, etc.
* **Civil Engineering:**  
  Core companies like L&T Construction, IOCL, SAIL, GAIL, NTPC, ONGC, etc, conduct a civil engineering paper. The syllabus of this paper includes question from Fluid Mechanics, Surveying, Engineering materials, Structural analysis, Foundation engineering, Hydraulics engineering, etc.  
  Technical questions that most of the IT companies include in their written tests are generally based on same syllabus. The areas from which questions are asked are:
* **C Language Basics:**  
  C is one of the most widely used programming languages that most of the IT companies include in their written tests. It includes basic questions like definitions, symbols, etc.
* **Data Structures:**  
  Data structure is the organization of data and its storage allocations in a computer. The topic covers basic questions like definitions or structural based.
* **Database Management System (DBMS):**  
  It is the software that handles the storage, retrieval, and updating of data in a computer system. Basic questions are asked from this topic.
* **Networking:**  
  It is the practice of linking two or more computing devices together for the purpose of sharing data. This topic also includes basic definition based questions.
* **Operating Systems:**  
  Software that supports basic functions of computer like scheduling tasks, controlling peripherals and executing applications. Questions asked in the written exam generally cover entire topic.
* **JAVA:**  
  JAVA is a programming language and computing platform that many IT companies use. This is the reason their written exam includes questions on JAVA. Exam includes question on core JAVA, JAVA Basics and advanced JAVA.