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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**
**M.Tech II Semester Examinations, October/November 2011**
**SCRIPTING LANGUAGE FOR VLSI DESIGN AUTOMATION**
**(COMMON TO EMBEDDED SYSTEMS, VLSI SYSTEM DESIGN)**

**Time: 3hours**                                                                 **Max. Marks: 60**
**Answer any five questions**
**All questions carry equal marks**
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1.a)    Explain about singularities and Pluralities, giving examples.              [12]
  b)    What are Arrays? Explain. How are they used in programming?

2.a)    What are the different types of character classes?                         [12]
  b)    Explain about Quantifiers.

3.a)    Module is the fundamental unit of code reuse in Perl. Justify this statement with examples.
  b)    Explain about method Invocations using                                     [12]
        i) Arrow operator.
        ii) Indirect objects.

4.a)    Explain about system V IPC Pertaining to Perl. What are the restrictions in this?
  b)    What is the significance of sockets? How they help for general purpose networking?                                                                    [12]

5.a)    What are the constraints of threaded code in Perl? How they are over come?
  b)    How locking Sub routines is done in Perl?                                  [12]

6.a)    Describe how the debugger operates by stepping through the program. What are the different commands that allow control? Explain.                             [12]
  b)    Explain about the Pearl profiler.

7.a)    What are the different Data types? How Perl can be extended?               [12]
  b)    What are $\alpha$ s and $\alpha$ SUBs? Explain.

8.    Write notes on any **TWO**                                                   [12]
  a)    CGI
  b)    VB Script with program examples
  c)    Java Script with program examples.

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