SIDDHARTH GROUP OF INSTITUTIONS :: PUTTUR
Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (DESCRIPTIVE)

Subject with Code : SCRIPTING LANGUAGE FOR VLSI DESIGN AUTOMATION (16EC5711)

Course & Branch: M.Tech - VLSI   **Year & Sem:** I-M.Tech & II-Sem

Regulation: R16

UNIT –I

1. (a). Distinguish between PERL, VB script and JAVA script.

    (b). Explain how the VB scripting language can be used to locate and execute activex

    document application.

2. (a). Explain the characteristics of scripting languages.

    (b). Explain how PERL can be used on the web by using CGI programs.

3. (a). Give an overview of PERL scripting language.

    (b). How does PERL and VB script differ?

4. (a). List features of PERL, VB script and JAVA script for VLSI design automation.

    (b). Explain how the VB scripting language can be used to locate and execute active document application.

5.   Give an overview of VB script in detail.

6. (a). Give an overview of JAVA script in detail.

    (b). Discuss the limitations of CGI.

7. (a). How does PERL and JAVA script differ?

    (b). Discuss the limitations of PERL.

8. (a). Explain the features of Java Scripting Language with example.

    (b). Explain the procedure for writing the VB script to add POP-UP messages or input boxes.

9. (a). List features of PERL, VB script and CGI for VLSI design automation.

    (b). Discuss the limitations of JAVA script.

10. Explain the characteristics of Java Script and VB Script.

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UNIT –II

1.   (a). Explain how a pattern matching is done in PERL with an example.

       (b). Explain different objects used in PERL.

2.   What are the different types of operators used in PERL? Explain each one with example

3.   (a). Explain how a pattern matching is done in PERL with example

       (b). Explain different modules used in PERL.

4. (a). Giving examples explain about string operators and assignment operators.

    (b). Explain how do you manage instance data in PERL.

5   (a). What are the different statements provided in PERL? Explain with examples.

     (b). What is meant by pattern matching? What facilities are provided for it in PERL?

6.   (a). Explain about bitwise operators.

      (b). Discuss different data structures in PERL

7. Explain the following terms, with examples.
(i) Hashes.
(ii) Complexities and
(iii) Verbs.

8.   Explain how Hash is being used in PERL. What is Hash assignment and Hash function?

9   (a). Explain in detail about Quantifiers with suitable example.

     (b). What is the role of Bare Blocks in scripting language.

10.   What is a Scoped declaration? Explain with its various types with one example.

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UNIT –III

1. (a). Explain sockets. List its advantages over other IPC mechanisms.

    (b). Discuss about Thread module.

2. (a). Explain in general what a thread is, and how they used in scripting language?

    (b). If a PERL program contains a sub routine explain how it is invoked, using an example

3. Explain about command processing and environment variables.

4. (a). Explain in detail about signals in interprocess communication system.

    (b). How files are used in IPC mechanisms. Explain it.

5. (a). What is System V IPC. Explain its drawbacks.

    (b). Differentiate about process model and thread model.

6. Explain the following with example.

    (a) The life cycle of a PERL program.

    (b) Pipes in PERL.

7. Explain in detail about Compiling and Executing PERL code

8. Discuss about

    (i) Code generation   (ii) Compiler backend (iii) Code development tool

  9. a). Explain about Avant-grade compiler and Retro Interpreter

    b). How the switches in command line interface used.

10 Explain in brief about command processing in command line interface.

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UNIT –VI

1. a) Mention the PERL debugger commands and explain about them.

    b) Explain the sorting techniques used in PERL.

2. a) Explain the following PERL functions with examples.

       (i) Sprintf   (ii) Squirt   (iii) Strand

    b). Explain about Extending PERL (using C from PERL).

3. a) What are the different directory operations used in PERL? Give an example.

    b) Explain the procedure for writing the VB script to add POP-UP messages or input boxes.

4.   Explain about the portable PERL in detail.

5. a) Explain editor support for debugger.

    b) Give the perl debugger commands and explain.

6.   Write notes on the following

       a. The PERL profiler.

       b. Debugger support in PERL.

7. a) Explain about PERL objects system.

    b) How class inheritance is done in PERL? Give examples.

8. Explain how a subroutine is invoked in a pearl program.

9. Describe Debugger customization and Debugger support in detail.

10 a) How a PERL interpreter can be added to a C-program? Explain

    b) Giving Examples explain about tying scalars, Tying Arrays, Tying Hashes Pertaining to PERL

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UNIT –V

1. a) Explain the procedure for writing the VB script to add POP-UP messages or input boxes.

   b) Explain the features of VB scripting language with examples.

2. a). Explain the features of Java Scripting language with examples

   b). Write short note on   (i) CGI.   (ii) VB Script.

3. a). Develop a java script that reads in a five digit integer and determines whether it is a   palindrome. If the number is not five digits, output HTML text that displays an alert dialog indicating the probed to the uses. When the user to enter a new value.

4.   Write notes on any TWO   (a). CGI   (b). VB Script   (c). Arrow operator.

5. a) Explain how PERL is generated in other languages?

   b). Giving examples describe Dyna loader-Automatic Dynamic Loading of PERL modules.

6. Explain how the following operations are carried out in PERL?

   a) Handling insecure data

   b) Handling insecure code

   c) Security bugs

7. a). Explain about the simple and fast reference based garbage collection system employed in PERL.

   b). What are the two special subroutine definitions that function as package constructor and destructors in PERL? Explain.

8.   Explain the following terms pertaining to Artificial languages, Giving examples

           i) Nouns   ii) Singularities   iii) Pluranties   iv) Verbs.

9. a). Explain how the VB scripting language can be used to locate and execute active document application   .

   b). Explain how PERL can be used on the web by using CGI programs.

10. What are the different types of statements in PERL language? How are they classified? Explain with example.