**R18**

Code No: 156CU

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**
**B. Tech III Year II Semester Examinations, February/March - 2022**
**SCRIPTING LANGUAGES**
**(Common to CSE, IT)**

Time: 3 hours
Max. Marks: 75

**Answer any five questions**
**All questions carry equal marks**
**- - -**

1.a) Explain the Package Management with RUBYGEMS.
  b) List and explain the different canvas widget options. [7+8]

2.a) Discuss the Ruby Type System.
  b) Illustrate the Embedding of Ruby to Other Languages. [8+7]

3.a) List and explain the Characteristics of Scripting Languages.
  b) Using Perl program explain push and pop in array implementation. [5+10]

4.a) Give a brief note on dirty hands in internet programming.
  b) Discuss the pack and unpack, filesystem. [8+7]

5.a) Explain Tk-Visual Tool Kits, Events, and Binding with example.
  b) Why TK is used? Explain TK with an example. [8+7]

6.a) Explain the Tk module in Ruby.
  b) How does the jukebox work? Explain. [8+7]

7.   List and explain PERL data types with suitable examples. [15]

8.a) How to run a package in tcl, how to remote login to a system A from system B, execute commands in it.
  b) Give an example of how to write internet applications using TCL. [8+7]

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**Note:** i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

## PART – A

(25 Marks)

| | | |
|---|---|---|
| 1.a) | What do you mean by an iterator in Ruby? | [2] |
| b) | State the importance of RubyGems. | [3] |
| c) | Write about Fixnum immediate value in Ruby. | [2] |
| d) | Write an extension code in C that is plug-compatible with that Ruby class. | [3] |
| e) | Define the term Web scripting. | [2] |
| f) | How does chop( ) and chomp( ) functions in PERL differ? | [3] |
| g) | Define a module and a package. | [2] |
| h) | Give a brief file system operations in PERL. | [3] |
| i) | How to create a list in TCL? Give an example. | [2] |
| j) | What is the purpose of 'exec' and 'append' command in Tcl? | [3] |

## PART – B

(50 Marks)

2.a) "Embedding Ruby in HTML is a very powerful concept". Support this statement using code snippets.
b) How to access Tk features from Ruby? Discuss briefly creating a simple application.

[5+5]

**OR**

3. How Ruby CGI handles cookies and sessions? Demonstrate using the sample Ruby CGI Scripts. [10]

4. Explain various C/Ruby data type conversion functions and macros with clear syntax and illustrative examples for each. [10]

**OR**

5.a) Explain StringValue and StringValuePtr macros in Ruby with sample Ruby script.
b) How to embed ruby in your application? What is the role of Ruby interpreter? Explain.

[4+6]

6.  Explain various regular expressions and pattern matching operators available in PERL with examples.  [10]

**OR**

7.a) What are the uses of scripting languages?
  b) Explain various string and numeric built-in functions available in PERL.  [4+6]

8.a) Outline the security issues in internet programming of PERL.
  b) Give a detail note on using PERL interfacing to an operating system.  [5+5]

**OR**

9.a) How to create packages and modules in PERL? Describe in detail.
  b) What is the need of pack( ) and unpack( ) functions in Perl.  [6+4]

10.  What are the major functionalities of a Tcl Parser? Explain in detail about namespaces and recursive procedures in TCL.  [10]

**OR**

11.a) Write Tk script to create a login form.
  b) How are events handled in Tk?  [5+5]

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**R18**

**Time: 3 Hours**                                                                 **Max. Marks: 75**

**Answer any five questions**
**All questions carry equal marks**
**- - -**

1.a)  Describe about lexical and syntactic structure of Ruby language.
  b)  How do we write CGI scripts using Ruby? Explain with simple CGI script?      [7+8]

2.a)  How do we do package management in Ruby using RubyGems?
  b)  Describe the usage of erb and eruby packages in Ruby.                        [7+8]

3.a)  Write the steps for building our own extensions in Ruby.
  b)  Explain about different Ruby objects in C.                                   [7+8]

4.a)  Write a Ruby programming for wrapping of C structures in Jukebox extension.
  b)  Explain about object creation and cloning of objects in Ruby.               [7+8]

5.a)  Enumerate various characteristics of Scripting languages.
  b)  How do we create packages and modules in Perl?                              [7+8]

6.a)  Explain about different uses of web scripting languages.
  b)  Compare Lists with Hashes in Perl language.                                 [7+8]

7.a)  Illustrate file status check codes available in Perl using a program.
  b)  Summarize the steps for creating Internet-aware applications in Perl.       [7+8]

8.a)  Explain how global, upvar and uplevel behaves in TCL with examples?
  b)  Explain the list of available selection widgets in TK with examples.        [7+8]

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