CMR TECHNICAL CAMPUS
UGC AUTONOMOUS
B. Tech. VIII Semester Regular End Examinations, April-2024
Scripting Languages(OE)
Common to IT&CSM

Time: 3 Hours   **Max. Marks: 70**

Note
i. This Question paper contains Part- A and Part- B.
ii. All the Questions in Part A are to be answered compulsorily.
iii. All Questions from Part B are to be answered with internal choice among them.

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PART-A

10 X 02 = 20 Marks

			Marks	CO	BL
1.	a	Explain Canvas?	2	CO1	L1
	b	Describe syntactic structure of ruby?	2	CO1	L3
	c	Explain the concept of Ruby bindings	2	CO2	L2
	d	Discuss the concept of sandboxing Ruby code	2	CO2	L3
	e	Write scalar expressions in perl?	2	CO3	L3
	f	Explain about Strings and regular expressions?	2	CO3	L2
	g	What is unpack in perl?	2	CO4	L1
	h	Explain packages and Objects perl?	2	CO4	L2
	i	How can you declare variables in TCL?	2	CO5	L2
	j	Explain about procedures in TCL?	2	CO5	L3

PART- B

5 X 10 = 50 Marks

			Marks	CO	BL
2.	a	Describe the process of writing CGI scripts in Ruby for web development. ?	5	CO1	L3
	b	Explain the significance of package management in Ruby and how RUBYGEMS facilitates it. ?	5	CO1	L4
		OR			
3	a	Describe the basics of RubyTk and its usage in developing simple Tk applications with example?	5	CO1	L6
	b	Discuss the implementation of scrolling functionality in RubyTk applications and different approaches to implement scrolling ?	5	CO1	L5
4	a	Explain the memory allocation process in Ruby. Discuss different memory management techniques employed by Ruby ?	5	CO2	L2
	b	Discuss the different data types and type conversion	5	CO2	L3

mechanisms in Ruby, highlighting their importance in programming.

OR

5	a	Discuss the challenges and considerations involved in embedding a Ruby interpreter. Explain how to handle the interaction between Ruby and the host language, including variable passing and error handling.	5	CO2	L4
	b	Explain techniques and tools available for effective debugging and testing in an embedded Ruby environment.	5	CO2	L3
6	a	Explore the role of Perl in modern scripting languages. Discuss its popularity, community support?	5	CO3	L6
	b	Explain the concept of subroutines in Perl. Discuss their purpose, declaration, and usage	5	CO3	L2

OR

7	a	Explain arrays, lists, and hashes in Perl. Discuss their usage, manipulation, and how they store and organize data in Perl programs.	5	CO3	L1
	b	Explain the concept of names and values in Perl. Discuss variable declaration, initialization, and scoping in Perl.	5	CO3	L1
8	a	Discuss the finer points of looping in Perl. Explain the different loop constructs available and their appropriate usage in different scenarios.	5	CO4	L3
	b	Discuss the filesystem operations in Perl. Explain how Perl interacts with the filesystem, including file handling, directory operations, and file permissions.	5	CO4	L3

OR

9	a	Explore the data structures available in Perl, such as arrays, hashes, and nested data structures	5	CO4	L4
	b	Explore the challenges and considerations involved in Internet programming using Perl.	5	CO4	L4
10	a	Explain the structure and syntax of TCL. Discuss the key elements and components that make up a TCL script.	5	CO5	L2
	b	Describe the control flow constructs in TCL. Discuss conditional statements (if-else), loops (while, for) with example?	5	CO5	L3

OR

11	a	Explain input/output operations in TCL. Discuss standard input/output, file input/output	5	CO5	L1
	b	Discuss advanced TCL concepts, such as eval, source, exec, and uplevel commands	5	CO5	L3

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