0301_IT_Sem-III_R19_PCPF_Shah & Anchor Kutchhi Engineering College

- 1) The Question Paper will have MCQs (for 20 marks) and Subjective/Descriptive Questions (for 60 marks).
- 2) MCQ correct options and subjective question answers to be written on A4 size papers. Scan all pages of answer papers of Q.1 to Q.4 and create single file in pdf format to upload in the link given.

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3.	Enter your Seat Number *	
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Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks	
1.	Variables whose value will be same across multiple function calls throughout the program execution is	
Option A:	static variable	
Option B:	stack	
Option C:	non static variable	
Option D:	heap	
2.	Size of an object is	
Option A:	Sum of the size of all the variables declared inside the class	
Option B:	Sum of the size of all the variables along with inherited variables in the class	
Option C:	Size of the largest size of variable	
Option D:	Size of smallest size of variable	
3.	Prolog relates variables and atoms by the process of and the variables that receive values as said to be	
Option A:	unification and initialization	
Option B:	initialization and assignment	
Option C:	unification and instantiated	
Option D:	Initialization and paging	
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Q.1) 4 to 7

4.	What are the types signatures of the Haskell functions: head, take, filter
Option A:	[a] -> a, [a] -> Int -> [a], [a] -> [b] -> (a -> b)
Option B:	[a] -> a, [a] -> Int -> [a], (a -> b) -> [a] -> [b]
Option C:	[a] -> a, Int -> [a] -> [a], (a -> b) -> [a] -> [b]
Option D:	[a] -> a, Int -> [a] -> [a] , (a -> Bool)]
5.	Which of the following is true about polymorphism in Haskell?
Option A:	Type variables in haskell are an instance of parametric polymorphism.
Option B:	Type variables in haskell are an instance of ad-hoc polymorphism.
Option C:	Type classes in haskell are an instance of parametric polymorphism.
Option D:	Type classes in haskell are an instance of non-parametric polymorphism.
6.	Which statement is false about scripting languages?
Option A:	Scripts can be used for batch processing
Option B:	Scripting languages support high level data types.
Option C:	Scripting languages are statically typed
Option D:	In script variables needn't be declared.
7.	In which of the following scenarios, a compiler is preferable to an interpreter?
Option A:	When Program development is easier
Option B:	To perform debugging faster.
Option C:	There are lesser resources to run a program
Option D:	We need to develop a standalone application that can run without installation.

8.	When the parent class has a parameterized constructor then it is for the child class to have a parameterized constructor to pass arguments to the parent class.
Option A:	Compulsory
Option B:	Optional
Option C:	Error
Option D:	Based on compiler
9.	Which of the following is used in logic programming?
Option A:	classes
Option B:	resolution and unification
Option C:	monad
Option D:	iterative constructs
10.	Message passing system allows processes to
Option A:	communicate with one another without resorting to shared data
Option B:	communicate with one another by resorting to shared data
Option C:	share data
Option D:	name the recipient or sender of the message

Q.2 & Q.3

Q2	Solve any Four out of Six	5 marks each
A	Describe the different Types in Haskell.	
В	With an example explain how constructors are functions	different from other member
C	How scripting languages differ from other prog	gramming languages
D	Mention features of Functional Programming la	anguages.
E	When and why do we use "is" instead of "=" i	n Prolog?
F	Explain lifecycle of a thread.	1949

Q3	Solve any Two Questions out of Three	10 marks each
A	Write a Prolog code to find if a list is sorted or a	not.
В	Explain the Exception handling mechanism with example	
С	Explain Type System and Type checking.	

Q4	Solve any Two Questions out of Three	10 marks each
A	Explain the different mechanisms in which stor	age is allocated to a program and data.
В	i) Explain the concept of higher order functions specify input output characteristics of any 2 Ha ii) Write your own Haskell implementation for previous question. iii) Write a corresponding imperative algorithm characteristics. Note: you may assume and state a suitable data algorithm.	skell higher order functions. (4 marks) any one of the functions you stated in the (03 marks) to achieve the same input output (03 marks)
C	Discuss how to implement Polymorphism in C	++ with example program.

4.	Upload your answer papers *
	Files submitted:
5.	Have you uploaded required pdf file of answers? *
	Mark only one oval.
	Yes

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