

Program: SE(Information Technology)

Curriculum Scheme: C Scheme

Examination: Second Year Semester III December 2020

Course Code: ITC305

Time: 2 hour

Course Name: PCPF

Max. Marks: 80

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Q1	MCQs	2 Marks each
1.	rainy(seattle). rainy(rochester). cold(seattle). snowy(X) :- rainy(X), cold(X). the query?- snowy(C). will return what *	
Option A:	Seattle	
Option B:	Rochester	
Option C:	Null	
Option D:	Can't say	
2.	What will be the output of below code? [first,second,third] = [A B]. *	
Option A:	A = first	
Option B:	B = [second, third].	
Option C:	A=first, B = [second, third].	
Option D:	Null	
3.	take 10 (repeat 5) What will be the output of above code?	
Option A:	5	
Option B:	[5,5,5,5,5,5,5,5,5,5]	
Option C:	[5]	
Option D:	[5,5,5,5,5]	
4.	[x*2 x<-[1..5]] What will be the output of above code?	
Option A:	[2,4,6,8,10]	
Option B:	[1,2,3,4,5]	
Option C:	[2,4,6,8,10,12,14,16,18,20]	
Option D:	[1,5]	
5.	Which of the following concepts means determining at runtime what method to invoke?	
Option A:	Data hiding	
Option B:	Dynamic Typing	

Option C:	Dynamic binding
Option D:	Dynamic Loading
6.	Which of the following access specifier is used as a default in a class definition?
Option A:	Protected
Option B:	Public
Option C:	Private
Option D:	Friend
7.	A function that is called automatically each time an object is destroyed is a
Option A:	Destructor
Option B:	Destroyer
Option C:	Remover
Option D:	Terminator
8.	_____ is a data structure that is used by compilers to store some metadata about the object like its total size, the size of one unit etc.
Option A:	Dope vector
Option B:	Meta data
Option C:	Subroutine
Option D:	Stack
9.	In which parameter passing method, values of actual parameters are copied to function's formal parameters and from then on, the two are independent?
Option A:	Call by name
Option B:	Call by reference
Option C:	Call by value
Option D:	call by sharing
10.	Whenever a language implementation performs an automatic, implicit conversion to the expected type, it is called as
Option A:	type conversion
Option B:	Coercion
Option C:	type casting
Option D:	type inference
11.	When several processes access the same data concurrently and the outcome of the execution depends on the particular order in which the access takes place, is called?
Option A:	dynamic condition
Option B:	race condition
Option C:	essential condition
Option D:	critical condition
12.	If a process is executing in its critical section, then no other processes can be executing in their critical section. This condition is called?

Option A:	mutual exclusion
Option B:	critical exclusion
Option C:	synchronous exclusion
Option D:	asynchronous exclusion
13.	In java a thread can be created by
Option A:	extending the thread class
Option B:	implementing the runnable interface
Option C:	both of the above
Option D:	none of these
14.	What is multithreaded programming?
Option A:	It's a process in which two different processes run simultaneously
Option B:	It's a process in which two or more parts of same process run simultaneously
Option C:	It's a process in which many different process are able to access same information
Option D:	It's a process in which a single process can access information from many sources
15.	Local Browser used for validations on the Web Pages uses _____.
Option A:	Java
Option B:	Css
Option C:	Html
Option D:	Javascript
16.	JavaScript Code is written inside file having extension _____.
Option A:	.jvs
Option B:	.js
Option C:	.javasript
Option D:	.java
17.	Inside which HTML element do we put the JavaScript?
Option A:	<script>
Option B:	<if>
Option C:	<meta>
Option D:	<a>
18.	Javascript is _____ language.
Option A:	Programming
Option B:	Application
Option C:	Scripting
Option D:	None
19.	global string defined by char s[] = "hello world" In which part of the memory layout the above data would be stored?

Option A:	Stack
Option B:	Heap
Option C:	Initialized data segment
Option D:	Code segment
20.	Consider the following Ada code: funcB (argA => 21, argB => 35); funcB (argB => 35, argA => 21); Identify the type of parameters.
Option A:	Simple Parameters
Option B:	Named Parameters
Option C:	Default Parameters
Option D:	Conformant arrays

Q2	Solve any 4 out of 6 (5 marks each)
A	Write a note on Constructors & Destructors along with all their types.
B	Explain visibility rules with examples
C	What is a subroutine calling sequence? What does it do? What is meant by the subroutine prologue and epilogue?
D	What is a dangling reference?
E	Explain function composition
F	What are the features of functional languages which are often missing in imperative languages?

Q3	Solve any 4 out of 6 (5 marks each)
A	Explain Resolution & Unification
B	Explain how database manipulation is done in logic programming.
C	What are the benefits of thread over processes?
D	What are the two of the most crucial issues to be addressed in concurrent programming? Explain each one in detail.
E	Explain the characteristics of scripting languages.
F	How are scripting languages different from traditional programming languages?