CIS 343 – Structure of Programming Languages Homework Assignment #4, Winter 2019 Topic: Ruby Language

Hard Copy Due In-Class: Wednesday, March 27, 2019

Student Name: Chandler Scott

1.	Ruby is a(n)	language.					
	a) interpreted	lo compiled		•			
2.	Everything that a Ruby	y can bind to a variable	e name is an object.	True or False			
3.	. A comment hides lines from the Ruby interpreter so that the lines are discarded or ignored. A b comment that conceals several lines from the interpreter is specified using						
	a) #	6) =begin/=end	c) //	d) *			
4.	An unless statement is the negated form of what other control structure?						
	a) while	b) if	c) for	d) until			
5.	Comments in Ruby be	gin with a chara	acter and continue to	the end of the line.			
	a) *	(b) #	c) \$	d) /			
6.	string liter	als support string inter	polation.				
	a) Single-quoted	b) Double-quoted	,				
7.	A symbol literal is written by prefixing an identifier or string with symbol.						
	a) *	b) #	c) :	d) \$			
8.	A Range object represents the values between a start value and an end value. If a range literal is written by placing three dots between the start and end value, then the range is						
	a inclusive	b) exclusive					
9.	In Ruby, negative inde	ex values count from the	ne end of the array.	True or False			
10.	10. If you attempt to read an element beyond the end of an array, Ruby throws an exception. <i>True</i> or <i>False</i>						
11.	Hashes are also known	as maps or associative	e arrays. True or	False			
12.	Methods are defined w	vith the keyv	word.				
	a) new	b) initialize	c) def	d) self			
13.	13. In Ruby, if a method name ends in an exclamation point (!), as in delete! method of the String class, it indicates that the method is destructive. <i>The</i> or <i>False</i>						

the sy		r of arguments to	a method just by prefixing	a method parameter with				
a) &	*	c) \$	d) #					
15. Where Java uses a finally clause in exception handling, Ruby uses clause.								
a) rescue	b) ensure	c) try	d) catch					
16. In Ruby, a class	name must begin wit	h an uppercase le	tter. True or raise					
17. In Ruby, even a	class is an object.	rue or False						
18. The	method is the firs	t code that is exec	cuted after an object is instan	tiated/created.				
a) new	b) initialize	c) clone	d) dup					
	autom urn (get) the values o der b) attr_w	f each method.	one or more instance varia	bles with corresponding				
20. Class methods a	re also known as stati	ic methods. True	gr False					
21. If you copy a fro	ozen object with	method, the co	opy will not be frozen.					
a) clone	1) dup	_						
	s/static method, ou nition. <i>True</i> or <i>False</i>		f the method with the name	of the class or module in				
23. The n	nethod is called to cre	eate an instance of	a class in Ruby.					
1 new	b) initialize	c) clone	d) dup	>				
24. The return value	e of a method is the va	alue of the last exp	pression evaluated in its body	y. True or False				
	is defined outside ovoked on an object.		dule, it is effectively a glob	al function rather than a				
26. Global variables prefixed with	•	y to a program. T	heir scope is the whole progr	ram. Global variables are				
a) @	b) \$	c) @@	d) #					
27. In Ruby, classes	and modules are ope	n and can be mod	ified and extended at runtime	e. True or False				
28. In Ruby, strings	are mutable. Tru	e or False		_				
29. In Ruby, classes	define an ordering by	y implementing th	ne operator.					
a) *	b) *	c) <=>	d) between?	>				
30. In Ruby, are nur	mbers primitives or ol	ojects? obje	ects					
31. Comparable module (or mixin) does not define operator								
a) <	b) !=	c) >	d) between?)				

32	. A frozen object bec	omes immutable.	True or False				
33	. Global functions are	e defined as	methods of the	Object class.			
	a) public	b) private	c) protected	d) static			
34.			ngle specified object. single object. True	The resulting method is known as a singleton or <i>False</i>			
35	. A is a ch	unk of Ruby code as	sociated with a method	d invocation.			
	a) class	b) module	c block				
36	. A block in Ruby is	wrapped by "do/end'	' or				
	a) ()	(b) {}	c) []				
37.	•		ck associated with it	may invoke the code in that block with the			
	statement		-) ' 1	1\			
•	a) yield	b) try	,	d) execute			
		•		n the methods they define. True or False			
39.	. Ruby uses the		ate that one class is an	extension of another class.			
	a) \$	b) >		d) #			
40	. In Ruby, the initiali	ze method is automa	tically made "private"	. True or False			
41	. In Ruby, the Class of	class is a subclass of	"Module" True or	False			
42	. A canno	ot be instantiated and	cannot be subclassed.				
	a) Class	Nodule					
43	. Classes cannot be u	sed as mixins (i.e. in	cluded into another cl	ass). True or False			
44	. One module can inc	clude another module	e. True or False				
45	. To include the Com	parable module/n	nixin, a class must defi	ine the operator.			
	a) <	b) >	(c) <=>	d) !=			
46	. To include the Entire yields successive m	umerable module/ embers of the collect	mixin, a collection cl	ass must define the #Each method which			
47	7. "Modules" are used as namespaces and as mixins. <i>True</i> or <i>False</i>						
48	. Procs and lambdas a	are objects that repre	sent a block. True	or False			
49	. The term "closure" of free variables use		nat is an invocable fur <i>True</i> or <i>False</i>	nction (block of code) that retains the bindings			

50. The load and require methods execute the code in the specified file immediately – load loads the same file multiple times whereas require tries to prevent multiple loads of the same file. *True* or *Talse*

3