P P SAVANI UNIVERSITY

Second Semester of B.Sc. (IT) Examination
May 2022
SSIT1071 Object Oriented Programming with Java

03.06.2022, Friday   Time: 10:00 a.m. To 12:30 p.m.   Maximum Marks: 60

Instructions:
1. The question paper comprises of two sections.
2. Section I and II must be attempted in same answer sheet.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION – I

Q - 1	Answer the Following	[05]
(i)	What is JVM?	
(ii)	The method main is a static method. Why?	
(iii)	Explain keyword "this".	
(iv)	Explain method parseInt.	
(v)	Interfaces can extend any number of other interfaces.(True/False Justify)	
(vi)	What is Bytecode?	
(vii)	Write use of keyword import.	
Q - 2 (a)	What is Constructor? Explain the Constructor Overloading with example.	[05]
Q - 2 (b)	Explain the Features of Java.	[05]

OR

Q - 2 (a)	Explain any five operators of Java.	[05]
Q - 2 (b)	What is type casting? Discuss types of conversions.	[05]
Q - 3 (a)	Explain Basic Datatypes of Java.	[05]
Q - 3 (b)	Write a simple java application that define a class Product with p_id(int), name(String), vendor name(String), brand(String) as data fields. The class should have parameterize constructor to create of Product class. Also include show method to display product details.	[05]

OR

Q - 3 (a)	Differential abstract class and interface.	[05]
Q - 3 (b)	Write a simple java application that defines a class Employee with empid(int), name(String),address(String) & branch(String) as data fields. The class should have getData() & showData() methods. The program should create an Employee object, get the details and display it.	[05]
Q - 4	Attempt any one/two.	[05]
(i)	Differentiate between constructor and method	
(ii)	Explain Access Modifiers with Example	

SECTION – II

Q - 1	Answer the Following: (MCQ/Short Question/Fill in the Blanks)	[05]
(i)	1) An abstract class in Java can be created using the keyword ____. A) final B) interface C) abstract D) static	
(ii)	What is the maximum number of Java Class files that can be kept inside a single Java Package? A) 8	

B) 64

C) 128

D) Unlimited

(iii) The keyword used to import a package into Java class or Interface is __.

A) import

B) download

C) use

D) None of the above

(iv) What is an Exception in Java?

A) An exception is like a generic error error occurring during the time of execution of program

B) An exception may occur due to memory or hardware issues

C) An exception leads to bad experience for an End user of the software

D) All the above

(v) All Java exceptions can be handled gracefully. State TRUE or FALSE.

A) TRUE

B) FALSE

(vi) To successfully overload a method in Java, the return types must be __.

A) Same

B) Different

C) Same but using superclass or subclass types also work

D) None

(vii) To successfully overload a method in Java, the method names must be __.

A) Same

B) Different

C) Same or different

D) None

Q - 2 (a)	What is an Exception? Explain try, catch and finally with example.	[05]
Q - 2 (b)	What do you understand by thread? Describe the complete life cycle of thread.	[05]
	OR	
Q - 2 (a)	What is an Exception? Explain throw and throws with example.	[05]
Q - 2 (b)	Explain abstract class with example.	[05]
Q - 3 (a)	Explain Thread Synchronization with example.	[05]
Q - 3 (b)	Explain Method Overloading and Overriding	[05]
	OR	
Q - 3 (a)	Write a Java program for matrix addition and multiplication	[05]
Q - 3 (b)	What is Java packages? list out step of create packages	[05]
Q - 4	Attempt any one/two.	[05]
(i)	What do you understand by Applet? Describe the complete life cycle of Applet.	

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