Code No: 133BM

R16

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech II Year I Semester Examinations, December - 2019
OBJECT ORIENTED PROGRAMMING THROUGH JAVA
(Common to CSE, IT)

Time: 3 Hours   **Max. Marks: 75**

Note: This question paper contains two parts A and B.
　　　　Part A is compulsory which carries 25 marks. Answer all questions in Part A.
　　　　Part B consists of 5 Units. Answer any one full question from each unit.
　　　　Each question carries 10 marks and may have a, b, c as sub questions.

PART- A
(25 Marks)

1.a)	What are the commands used for compilation and execution of java programs?	[2]
b)	What is java bytecode? What is JVM?	[3]
c)	What is a package? Write the syntax to define a "package".	[2]
d)	What does Java API package contain?	[3]
e)	What are the run time errors and logical errors in Java?	[2]
f)	What is an exception? What are two exception types?	[3]
g)	What are the properties of hash table?	[2]
h)	Differentiate between Iterator and for-each.	[3]
i)	What are the differences between an applet and stand alone java application?	[2]
j)	What are the methods in applet life cycle?	[3]

PART-B
(50 Marks)

2.a)	Explain briefly class, public, static, void, main, string[] and system.out.println() key words.	
b)	Write a java method to find minimum value in given two values.	[5+5]

OR

3.a)	Discuss about precedence of operators and associativity.	
b)	Explain the polymorphism and overloading with an example.	[5+5]

4.a)	Write the benefits of packages and interfaces.	
b)	How can we add a class to a package? Write about relative and absolute paths.	[5+5]

OR

5.a)	Write the differences between interface and abstract class.	
b)	Write the procedure to a create package with multiple public classes.	[3+7]

6.a)	What is exception handling? Explain an example of exception handling in the case of division by zero.	
b)	Write a simple java program to create threads.	[5+5]

OR

7.a)	Write about some Java's built in exceptions.	
b)	With an example, demonstrate the concept of thread synchronization.	[5+5]

8.   With syntax, explain the following utility classes.
        a) String Tokenizer   b) Date and Calendar   c) Scanner.   [10]
                                          OR
9.a)   Compare and contrast any two collection algorithms.
  b)   Explain the process of accessing collection through iterator.   [5+5]

10.a)   Write the step wise procedure to create and run an applet.
  b)   List the event classes and Listener Interfaces.   [5+5]
                                          OR
11.   Write an applet code to demonstrate parameter passing to applet.   [10]

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