ROLL NO.

Code: AT68/AT120

Subject: JAVA & WEB PROGRAMMING

AMIETE – IT (Current & New Scheme)

Time: 3 Hours

December 2016

Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE: There are 9 Questions in all.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.1 will be collected by the invigilator after 45 minutes of the commencement of the examination.
- Out of the remaining EIGHT Questions, answer any FIVE Questions, selecting THREE questions from Part A and TWO questions from Part B. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated

Q.1Choose the correct or the best alternative in the following: (2×10)

a.	Which class cannot be extended in java?		
	(A) abstract class	(B) parent class	
	(C) Final class	(D) None of these	

- b. Suspend thread can be revived by using
 (A) Start()
 (B) Suspend()
 (C) Resume()
 (D) Yield()
- c. Which collection class associates values with keys and orders the keys according to their natural order
 (A) java.util.HashSet
 (B) java.util.LinkedList
 - (A) java.util.HashSet(B) java.util.LinkedList(C) java.util.TreeMap(D) java.util.SortedSet
- d. AppletViewer tool is available in which of the folder of JDK :
 (A) bin
 (B) lib
 (C) source
 (D) class
- e. When a method can throw an exception then it is specified by _____ keyword (A) finally (B) throw (C) throws (D) catch
- f. Which is the container that contains title bar and can have MenuBars. It can have other components like button, textfield etc.?
 (A) Panel
 (B) Frame
 (C) Window
 (D) container
- g. In order to fetch stream of data from network or file, following data type is used
 (A) double
 (B) char
 (C) int
 (D) byte

h. What is the output of this program? classisinfinite_output{ public static void main(String args[]){ Double d = new Double(1 / 0.); boolean x = d.isInfinite(); System.out.print(x); } (A) 0 (B) 1 (C) true (D) false

i. Which of these methods of Object class is used to obtain class of an object at run time?

(A) get()	(B) voidgetclass()
(C) Class getClass()	(D) None of these

j. What is the default priority of a thread in Java?
 (A) 0
 (B) 1
 (C) 10
 (D) 5

PART A Answer any THREE Questions. Each question carries 16 marks.

- Q.2 a. What are the three pillars of object? Explain any two of them in Detail. (8)
 - b. What do you mean Type-casting? What automatic type conversion has been done? Explain with suitable example. (8)
- a. Write a program that reads one line of input text and breaks it up into words. Q.3 The words should be output one per line. A word is defined to be a sequence of letters. Any characters in the input that are not letters should be discarded. For example, if the user inputs the line as: He said, "That is not a good idea.", then the output of the program should be: (10) He said That is not а good idea b. There is no operator overloading in Java? Why not? (3)
 - c. static and final are not exactly the descriptive words for creating class variables, class methods, and constants. Why not use class and const? (3)
- Q.4 a. What is the difference between Byte streams and Character Streams? Write a program to take the input from the keyboard and find out whether the given number is even or odd.
 - b. Explain the following methods:
 (i) equals() versus = =
 (ii) charAt() and setCharAt()

(8)

2

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- Q.5 With the help of a suitable figure, describe the life cycle of a thread. Write a small program illustrating the various states of the thread. (16)
- Q.6 a. What is the advantage of the event-delegation model over the earlier event-inheritance model? (4)
 - b. Compare SWING components to standard AWT. (9)
 - c. What is the difference between a Vector and an Array? Discuss the advantages and disadvantages of both. (3)

PART B Answer any TWO Questions. Each question carries 16 marks.

Q.7	a.	Describe the main differences between HTML and XHTML.	(10)
	b.	How do you make an image clickable in HTML? Give an example.	(6)
Q.8	a.	Explain different data types used in JavaScript.	(4)
	b.	What are the disadvantages of using frames in HTML?	(4)
	c.	Write a note on CGI programming.	(8)
Q.9	a.	Define design. What are the elements of a good design?	(8)
	b.	What are the name servers? Explain.	(3)
	c.	What are the Tasks performed with client-side scripts?	(5)

3