ROLL NO.

Code: AT68/AT120

Subject: JAVA & WEB PROGRAMMING

AMIETE – IT (Current & New Scheme)

Time: 3 Hours

June 2018

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.1 Choose the correct or the best alternative in the following:

 (2×10)

a.	Which one of the following will decl	are an array and initialize it five numbers?
	(A) int[5] array;	(B) array $a = new array[5];$
	(C) int a[] = new int[];	(D) int[] a = {23, 45, 47, 32, 29}

b. What is the default priority of a thread in Java?

(A) 5	(B) 3
(C) 10	(D) 1

c. What is byte code in the context of Java?

- (A) It is the code written within the instance methods of a class
- (B) The type of code generated by a Java Virtual Machine
- (C) It is another name for a Java source file
- (\mathbf{D}) The type of code generated by a Java compiler
- d. The ______attribute adds space within each cell
 (A) Align (B) Width
 (C) Cell Padding (D) Cell Spacing
- e. What is the valid returnType for method F() in line 1? public class X { returnType F(byte x, double y) /* Line 1 */ { return (long)x / y * 2; }
 - }
 (A) int
 (B) double
 (C) byte
 (D) long

1

ROLL NO. _

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f.	 Which is the valid declarations with (A) static void methoda(double d1); (B) public final double methoda(); (C) public double methoda(); (D) protected void methoda(double 	
g.	Which method must be defined by a java.lang.Runnable interface?(A) void run()(C) void run(int priority)	 (B) public void start() (D) public void run()
h.	 Break statement can be used (A) to exit a loop (B) as a "civilized" form of goto (C) for terminating a statement seque (D) All of these 	ence in a switch statement
i.		es, an <i>architecture neutral</i> hsport code efficiently to multiple hardware (B) byte-code (D) package
j.	Java runs on (A) Mac (C) Unix/Linux	(B) Windows(D) All of these
		(1)

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

Q.2	a.	"One object in Java can be assigned as reference to another object of the same type." To explain this concept write a complete Java program and explain how a reference object works.	(8)
	b.	List and Explain java buzz words.	(8)
Q.3	a.	What is overloading method? Is return type alone is sufficient for overloading method?	(8)
	b.	Differentiate between call by value and call by reference with the help of suitable example.	(8)
Q.4	a.	Create a try block that is likely to generate exception at three different places. Provide the necessary catch blocks to catch and handle those exceptions.	(8)
	b.	What is synchronization? When should Synchronization be used in Java? What are the three ways to define synchronized blocks?	(8)

2

ROLL NO. _____

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Q.5	a. Discuss the classification of byte stream in Java.	(5)	
	b. Is it possible to concatenate strings with other types of data? Illustrate using examples.	(5)	
	c. Explain the construct of a simple "Hello world" applet. Also explain how to display an applet using html tags.	(6)	
Q.6	a. Bring out the differences between AWT & Swings.	(4)	
	b. Discuss the various Layouts used in AWT.	(4)	
	c. Write a program to create a frame with width 300 and height 200 using swings.	(8)	
PART B (Web Programming)			

ART B (Web Programming) Answer any TWO Questions. Each question carries 16 marks.

Q.7	a.	What are the various list styles and presentation styles in XHTML? Explain it with suitable example.	(8)
	b.	Explain the core attributes of XHTML with examples.	(8)
Q.8	a.	Define design. What are the various aspects of good Designing?	(6)
	b.	With the help of example discuss the different formatting attributes available for table?	(6)
	c.	What are Server-Side Includes? What can be done using them? Give examples.	(4)
Q.9	a.	How Cascading Style Sheets are useful in Web Page designing?	(4)
	b.	Write a function in java script that validates if the content has the general syntax of an email.	(6)
	c.	Explain how JavaScript are embedded in a Web page?	(6)

3