ROLL NO.

Code: AT68

Subject: JAVA & WEB PROGRAMMING

AMIETE – IT

Time: 3 Hours

JUNE 2014

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 is a correct statement?

(A) int [] $A = \{"1", "2", "3"\};$	(B) int [] $A = (1, 3, 2);$
(C) int A [] [] = {4,9,7,8};	(D) int A $[] = \{2, 3, 4\};$

b. At the top of the AWT hierarchy is

(A) Component class	(B) Panel class
(C) Applet class	(D) Frame class

c. 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) byte
(C) long	(D) double

d. Which one of the following statements is true for Java Swing APIs?

(A) Swing provides access to all windows API calls

- (B) Swing relies on operating system for its functionality
- (C) Swing is largely operating system independent providing a full range of GUI APIs
- (D) Swing is a heavy weight component

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e.	 e. What will be the output of the following code segments: byte x = (byte)0xf1; System.out.print(x + " and "); x = byte(x >>4); System.out.println(x); 			
	(A) 0xf1 (C) 0x0f	(B) 0xff (D) 0x1f		
f.	Which of the following	tatement is equivalent to 16 >>> 2?		
	(A) 16*4(C) 16/2^2	 (B) 16>>2 (D) 16/2 		
g.	Which one of the follow	ng statements is true?		
 (A) catch(X x) can catch subclasses of X where X is a subclass of Exception (B) The Error class is a RuntimeException (C) Any statement that can throw an Error must be enclosed in a try block (D) Any statement that can throw an Exception must be enclosed in a try block 				
h.	What does the following String $s = $ "Add:" +2+ 3	code segment display:		
	(A) Add:5 (C) Add:23	(B) "Add:5"(D) "Add:23"		
i.	i. The immediate super class of applet class is			
	(A) File(C) Jpanel	(B) Panel(D) Applet		
j.	The wait() function is us	d for		
	(A) Thread creation(C) Thread synchronization	(B) To check whether thread is running(D) Inter-thread communication		
PART A				

Answer any THREE Questions. Each question carries 16 marks.

- a. What is the bytecode? How does Java solve both security and portability Q.2 problems using bytecode? (6)
 - b. What is the difference between the logical operators: && and &? Explain with an example. (6)
 - c. What is the enhanced 'for' loop syntax for arrays? Explain. (4)

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Q.3	a.	What is garbage collection? How is garbage collection performed in Java? (6)
	b.	Differentiate between call by value and call by reference with the help of suitable example. (6)
	c.	How is <i>'this'</i> used with constructors? Explain with example. (4)
Q.4	a.	What is the difference between error and exception? What is user defined exception? Explain with example.(8)
	b.	What is the difference between Thread.start() and Thread.run()? Explain with example. (8)
Q.5	a.	What is an Applet? Differentiate between Applets and an application program. (4)
	b.	What is compareTo() function in Java? Explain with the help of a suitable example. (5)
	c.	Write a program in Java to copy one file to another file using command line arguments. (7)
Q.6	a.	Write a program in java to convert Array List to an array. (10)
	b.	What are the differences between Swing and AWT?(6)
		DADT B

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

Q.7	a.	What are the major tasks in the overall website development process? knowledge and skills do you expect to learn to participate in this process?	What (8)
	b.	Describe the main differences between HTML and XHTML.	(4)
	c.	What role does white space play in an HTML file? What constitutes space in an HTML document?	white (4)
Q.8	a.	Define design. What are the elements of a good design?	(5)
	b.	With the help of example discuss the different attributes available for table	?(5)
	c.	List the six concrete steps needed to create the site's information architectu	ire. (6)
Q.9	a.	What are HTTP GET and POST methods? Explain briefly.	(4)

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- b. Explain the following text input elements in a form with the help of examples: (i) Radio Buttons (ii) Check Boxes (3+3)
- c. Write a Java Script to do the following:

X:		
Y:		
Result:		
SUM	MULTIPLY	

After entering the values of X and Y, if SUM or MULTIPLY button is clicked then sum or multiplication respectively of X and Y should be printed. (6)