ROLL NO. _

Code: AT68

Subject: JAVA & WEB PROGRAMMING

AMIETE – IT (Current Scheme)

Time: 3 Hours

DECEMBER 2015

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 class cannot be a subclass in (A) Abstract class (C) Final class 	 i java (B) Parent class (D) None of these 	
	 b. Suspended thread can be revived b (A) start() method (C) resume() method 	y using (B) Suspend() method (D) yield() method	
	 c. Which of the following is the correct way for writing Java Script array? (A) var salaries = new Array(1:39438, 2:39839 3:83729) (B) var salaries = new (Array1=39438, Array 2=39839 Array 3=83729) (C) var salaries = new Array(39438, 39839,83729) (D) var salaries = new Array() values = 39438, 39839 83729 		
	 d. Methods that have same name, definition known as (A) Overriding (C) Overloading 	but different parameter list and d(B) Constructor(D) None of these	ifferent
	e. String is the predefined(A) Method(C) Variable	(B) Class (D) Object	
	 f. Which class is base class for all exercise (A) String (C) Throwable 	ceptions? (B) Error (D) RuntimeException	
	 g. Which of the following statement is false in view of the applets in Java? (A) Applets do not need a main() method (B) Applets must be run under an applet viewer or a java-compatible browser (C) User I/O is not accomplished with Java's stream I/O classes. Instead, applets use the interface provided by the AWT (D) All are true 		
	 h. What is the default priority of a three (A) 10 (C) 3 	ead in Java? (B) 5 (D) 1	

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	i.	Which of these class is used to create an object whose character sequer	nce is
		mutable?(A) String()(B) StringBuffer()	
		(C) Both of the mentioned(D) None of the mentioned	
	j.	How to define the link should open in new page in HTML?	
	5	(A) Click Here<	
		(B) Click Here	
		 (C) Click Here (D) Click Here 	
		PART A	
		Answer any THREE Questions. Each question carries 16 marks.	
Q.2	a.	List and explain the three OOP principles.	(4)
	b.	Explain why the main function is declared as "public static void m args[])"?	ain(String (4)
	c.	List and explain any 8 Java Buzzwords.	(8)
Q.3	a.	Explain the following keywords:	
		(i) Garbage Collection (ii) finalize() method	(4)
	b.	Explain the different uses of Super keyword.	(4)
	c.	Create an Interface called as Convert which has two functions conver and convertPounds(). Both function takes one argument and returns to into indian rupees. Write a class to implement the interface.	0
Q.4	a.	Bring out the differences between throw & throws.	(4)
	b.	Explain the different ways of creating threads in java with syntax.	(4)
	c.	Write a Java class called as SavingsAccount with members as Acco Balance. Provide depositAmount() & withdrawAmount() functions. I to withdraw more money than his balance, then throw a Use Exception.	f user tries
Q.5	a.	Compare byte stream class and character stream class.	(4)
	b.	Write a program to illustrate BufferedInputStream and BufferedOutput	itStream. (4+4)
	c.	Give the syntax of four StringBuffer constructors and give their applic	
0 ((4)
Q.6	a.	Bring out the differences between AWT & Swings.	(4)
	b.	Explain any two layouts in AWT.	(4)
	c.	Write a Java Swing program to create a UI which has a textbox and two One button will convert the text in the textbox from Upper case to I	

c. Write a Java Swing program to create a UI which has a textbox and two buttons. One button will convert the text in the textbox from Upper case to Lower case and other resets the textbox.
 (8)

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PART B

Q.7	a.	What are the name servers? Explain	(4)
	b.	Bring out the differences between HTML & XHTML.	(6)
С	c.	List different concrete steps to Information Architecture. Explain how t be helpful to reveal true objective of the site.	his can (6)
Q.8	a.	What is design? Explain the Elements of Design.	(6)
	b.	Explain Webpage Layout Grids.	(10)
Q.9	a.	Describe the structure of CGI program.	(8)
	b.	Explain different data types used in JavaScript.	(8)