ROLL NO.
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Code: AT68 **Subject: JAVA & WEB PROGRAMMING** 

## **AMIETE - IT (NEW SCHEME)**

**JUNE 2012** Time: 3 Hours Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE OUESTION 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 Choose the correct or the best alternative in the following: 0.1  $(2\times10)$ a. The Java Compiler product generates , an architecture neutral intermediate format designed to transport code efficiently to multiple hardware and software. (A) byte-code (B) literal (C) interpreter (**D**) package \_\_\_\_ is a java program that is referenced by a java page and runs inside a java enabled java browser. (A) Servelet (B) Applet (C) Bean (**D**) Swing c. The Swing library makes heavy use of the Model/View/Controller software design pattern, which attempts to separate the data being viewed from the method by which it is viewed (A) NBC (B) VCM (C) MVC (**D**) None of these d. Name the container which uses Border Layout as their default layout? (A) Window. **(B)** Frame (C) Dialog Classes (**D**) All of these e. Every class inherits finalize() method from (A) Object class **(B)** Constructor class (C) Abstract class

**(D)** None of these

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	f.	We use the	_to create a hyperl	ink to a web page at another website.		
		( <b>A</b> ) <r> tag</r>		<b>(B)</b> <h> tag</h>		
		( <b>C</b> ) <a> tag</a>		( <b>D</b> ) None of these		
	g. The term CGI script is used as a generic term for					
(A) Come and get it scripts						
		<ul><li>(B) Program that help you create HTML documents</li><li>(C) Program that allow you to obtain information from www servers</li></ul>				
		( <b>D</b> ) Program that process information that comes from forms				
	h.	Commonly used site for name registration is				
		(A) Yahoo		(B) InterNIC		
		(C) Indiatimes		( <b>D</b> ) None of these		
	i.	i. Which of the following is a "Web browser"?				
		(A) Netscape		(B) World Wide Web		
		(C) Launcher		(D) E-mail		
	j. In Java System.out is an object of type					
		(A) InputStream		(B) PrintStream		
		(C) OutputStream	m	<b>(D)</b> None of the above		
		Answer any TI		RT A Each question carries 16 marks.		
Q.2	a. Differentiate between non-primitive and primitive data types. Give suitab examples. (6)			- · · · · · · · · · · · · · · · · · · ·		
	b.	Write a program in Java to find sum and product of the digits in a number passed to the program as a command line argument. (10)				
Q.3	a.	What are the dift the similarities.	fferences between a	an interface and an abstract class? Also discuss (4)		
	b.	Write a brief no	te on finalize() met	hod. Explain using a small Java program. (6)		
	c.	How can you u	se a public packag	e member from outside its package? Explain. (6)		
Q.4	a.		e example. How to	occurs and is not handled properly? Explain handle an exception? Write a program that (8)		

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- b. What are different thread priorities defined in Java. Discuss two ways by which a thread is created in Java. Write a program in Java that create a thread by extending Thread class.

  (8)
- Q.5 a. Describe the structure and lifecycle of an applet? How can we see its output? (10)
  - b. Briefly describe following String comparison functions: equals(), equalsIgnoreCase(), comapreTo()(6)
- Q.6 a. Write a brief note on Enumeration interface and discuss two methods declared by Enumeration. Write a Java program that shows usage of Enumeration. Discuss the output.
  (8)
  - b. What is a Swing? Discuss advantages and disadvantages of using Swings. Write a program that prints Hello World using Swing. (8)

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

**Q.7** a. What are Name servers? Explain.

(5)

b. Discuss the framework of an HTTP transaction.

- **(6)**
- c. What is an image map? How is it useful? How to create an image map placed in an HTML file? How is an image associated with its map? (5)
- **Q.8** a. Give a brief note on Web Page Layout Grids.

- **(4)**
- b. What is design? What are elements of design? Discuss.
- **(4)**
- c. What is XHTML? In what way it differs from HTML? Give an example that shows an XHTML document with a minimum of required tags. (8)
- Q.9 a. What is CSS? Discuss components of CSS. Write a small program that explains usage of CSS by setting the background color of a page. (8)
  - b. Discuss outline of a CGI program. Write a CGI program that when called will display the environmental variables. (8)