ROLL NO.	

Max. Marks: 100

Subject: INTERNET & JAVA PROGRAMMING Code: AC19

AMIETE - CS (OLD SCHEME)

Time: 3 Hours

DECEMBER 2011

NOTE: There are 9 Questions in all.

- Please write your Roll No. at the space provided on each page immediately after receiving the Question Paper.
- 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. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated.

0.1 Choose the correct or the best alternative in the following:

 (2×10)

- a. What is the name of the method used to start a thread execution?
 - **(A)** init();

(B) start();

(C) run();

- **(D)** resume();
- b. What will be the output of the program? public class Foo public static void main(String[] args) try return; finally System.out.println("Finally"); }
 - (A) Finally

- **(B)** Compilation fails.
- (C) The code runs with no output. (D) An exception is thrown at runtime.
- c. What allows the programmer to destroy an object x?
 - (A) x.delete()
 - **(B)** x.finalize()
 - (C) Runtime.getRuntime ().gc()
 - (**D**) Only the garbage collection system can destroy an object.

Code: AC19 Subject: INTERNET & JAVA PROGRAMMING

d. What is the meaning of	of the return data type void?
~ *	ory space is returned so that the developers can utilize
it.	oto typo
(B) void returns no da(C) void is not suppo	* *
(D) None of the abov	
e. Which tag is most cor	nmonly used by search engines?
(A) Heading	(B) Title
(C) Paragraph	(D) Meta
f. Each list item in an or	dered or unordered list has which tag?
(A) list tag	(B) ls tag
(C) li tag	(D) ol tag
g. Ping command works	on which protocol?
(A) ICMP	(B) TCP
(C) IP	(D) UDP
h. From the options belo	ow, which suits best for MODEM?
(A) a device that n information	nodulates an analog carrier signal to encode digital
	nodulates a digital carrier signal to encode analog
information	
information	nodulates an analog carrier signal to decode digital
	modulates a digital carrier signal to decode analog
i. A network point that	provides entrance into another network is called as
(A) Node	(B) Gateway
(C) Switch	(D) Router
j. <title> </TITLE</td><td>E> tag must be within</td></tr><tr><td>(A) Title</td><td>(B) Form</td></tr><tr><td>(C) Head</td><td>(D) Body</td></tr><tr><td></td><td>E Questions out of EIGHT Questions. question carries 16 marks.</td></tr><tr><td></td><td>=</td></tr><tr><td>a. Explain the function layered TCP Model.</td><td>ning of 7 layers of OSI model. Compare with the</td></tr><tr><td></td><td></td></tr></tbody></table></title>	

AC19 / DEC. - 2011

Code: AC19 Subject: INTERNET & JAVA PROGRAMMING

	b.	Differentiate between Routers and Brouters. Also explain the collision detection and avoidance algorithms used in data link layer.	(6)
	c.	Explain the term UDP. Where does it find its utility in a networking environment?	(4)
Q.3	a.	Explain how does file transfer takes place in internet? Explain the procedure.	e (6)
	b.	Explain (using a diagram) the two tier and three tier client server architecture. Explain the function of Remote Procedure Call in a networked system.	
	c.	Differentiate between IPv4 and IPv6. Give their distinguishing features.	(4)
Q.4	a.	Write a program in HTML display a textbox for accepting password from the user. Explain the tags used in the program.	(6)
	b.	How can we get CGI Parameters through a server-parsed HTML page?	(4)
	c.	Give a code in HTML to embed audio, video, image into the web page Explain by showing the results.	· (6)
Q.5	a.	What are wrapper classes? Write a program to illustrate use of wrapper class using java.lang utility.	r (6)
	b.	How do we define try and catch block? Is it essential to catch all types of exceptions? Explain how exception handling mechanism can be used for debugging a program.	
	c.	What is partial implementation of an interface? Explain.	(2)
Q.6	a.	Write a java Applet for:(i) Triangle inside a circle.(ii) for showing the sequence of calling the methods by AWT.	(6)
	b.	Create a 3-level inheritance hierarchy. Each class in the hierarchy should have a finalize() method, and it should properly call the base-class version of finalize(). Demonstrate that your hierarchy works properly.	
	c.	Give a brief note on Java Swings.	(2)
Q.7	a.	Write a program in Java to create a servlet that handles HTTP GET request.	(6)
	b.	Write a program in Java to create the Jcombo Box on an applet. The	,

(4)

combo box will have the following items: Pen, Pencil, Eraser, Notebook.

c. Give the use of URL class and the syntax of constructor of URL class.

ROLL NO.	_
	_

(9)

Code: AC19 Subject: INTERNET & JAVA PROGRAMMING

- Q.8 a. What is java bean? Discuss about its features in brief. Explain the concept of persistent storage associated with beans with the help of example(s). Discuss about its various types.
 (8)
 - b. Describe complete life cycle of a thread. Write a Java program that shows the use of priority in threads. (6)
 - c. What is synchronization in the context of Java? What is the difference between notify and notifyAll method? (2)
- **Q.9** a. Write notes on the following. Also give small java code wherever necessary:
 - (i) Grid layout manager
 - (ii) Static members
 - (iii) Strings in Java
 - b. How many components are there in an email address? What do these components represent? Discuss protocols used for sending and receiving email. (7)