**ROLL NO.** 

Code: AC19

Subject: INTERNET & JAVA PROGRAMMING

## AMIETE - CS (OLD SCHEME)

Time: 3 Hours

# OCTOBER 2012

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. 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:

 $(2 \times 10)$ 

- a. What will be the value of p, q and r after execution of the following statements? int p,q,r; q= 10; r=15; p= ++ q+ r++;
  (A) p=25, q=10, r=15 (B) p=27, q=10, r=15 (C) p=26, q=11, r=16 (D) p=27, q=11, r=16
- b. What will be the content of array table after executing the following code? for (int i=0; i<3; i++)

for (int j=0; j<3; j++) if (j==i) table [i] [j]=2; else table [i] [j] = 1;	
(A) 111 111 111	<ul> <li>(B) 211</li> <li>221</li> <li>222</li> </ul>
(C) 112 121 211	<ul><li>(D) 211</li><li>121</li><li>112</li></ul>

c. When we invoke repaint ( ) for a component, the AWT invokes the method:

(A) draw ()	<b>(B)</b> Show ()
( <b>C</b> ) update ( )	( <b>D</b> ) paint ( )

d. Which of the following command lines options generates documentation for all classes and methods?

$(\mathbf{A})$ – protected		$(\mathbf{B})$ – public
(C) – private		( <b>D</b> ) – verbose.
	4	

AC19 / OCTOBER - 2012

1

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					ROLL NO		
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	e.	The set Backgrou	und() method is par	rt of the class			
		<ul><li>(A) Graphics</li><li>(C) Component</li></ul>		<ul><li>(B) Applet</li><li>(D) Container</li></ul>			
	f.	The methods wait () and notify () are defined in					
		<ul><li>(A) Java.lang.stri</li><li>(C) Java.lang.obj</li></ul>	-	( <b>B</b> ) Java.lang.Ru ( <b>D</b> ) Java.lang.Th			
	g.	Which of the following TCP/IP protocol is used for file transfer with minimal capability and minimal overhead?					
		(A) RARP (C) TFTP		( <b>B</b> ) FTP ( <b>D</b> ) TELNET			
	h.		owing TCP/IP proto om one machine to		ansferring electronic		
		<ul><li>(A) FTP</li><li>(C) SMTP</li></ul>		<ul><li>(B) SNMP</li><li>(D) RPC</li></ul>			
	i.	A machine that connects to two or more electronic mail systems and transfers mail messages among them is known as					
		<ul><li>(A) Gateways</li><li>(C) Bridges</li></ul>		<ul><li>(B) Mail gatewa</li><li>(D) User Agent</li></ul>	y		
	j.	ICMP (Internet Control Message Protocol) is					
		a low-level ph ( <b>B</b> ) a TCP/IP high another.	hysical hardware ad h level protocol for	ldress. transferring files	h- level IP address to from one machine to		
	<ul><li>(C) a protocol used to monitor Computers.</li><li>(D) a protocol that handles error and control messages.</li></ul>						
Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks.							
Q.2	a.	Discuss briefly a	about Subnet and C	lassless Addressin	ıg.	(6)	
	b.	State briefly thre	ee basic categories of	of Address resolu	tion algorithms.	(6)	
	c.	Write brief notes	s on IP Encapsulation	on, Fragmentation	n and Reassembly.	(4)	
Q.3	a.	Describe the clie clients and serve		. Write down va	rious characteristics	of ( <b>10</b> )	
	b.	The HTML pag briefly each cate		into three genera	ll categories. Explai	in (6)	
Q.4	a.	What is the purp		cuss about variou	s activities initiated b	y ( <b>8</b> )	

Q.4 a. What is the purpose of HTTP? Discuss about various activities initiated by its each transaction. (8)

2

#### Code: AC19 Subject: INTERNET & JAVA PROGRAMMING b. Determine the class of each of the following IP address: (8) 5.34.200.85 (i) (ii) 228.57.58.90 (iii) 169.45.70.12 (iv) 200.76.9.25 0.5 a. Discuss briefly about application builder tools while working with Java beans. Also explain its capabilities. (6) b. Create an applet to display a welcome message and embed it in a web page. (6) (4) c. Why is Java important to the internet? **Q.6** a. Servlets offer several advantages in comparison with CGI, Discuss them briefly. (6) b. Write a Java applet that (6) (i) draws a big $\times$ . (ii) draws a pair of perpendicular line segments c. Write a short note on 'Fundamentals of Exception Handling'. (4) **0.7** a. Write a program in JAVA to sort out the following cities in ascending order: (10)Ambala, Delhi, Chennai, Agra, Lucknow b. What are the classes available in Java for implementing collection framework? Differentiate between vector and array list. (6) a. Write a program in Java which gives the following output when you **Q.8** execute it on the computer. (10)0 01 024 0369 0481216 0 5 10 15 20 25 b. How many layout managers are available in Java? Discuss briefly. (6) Q.9 a. Push button is one of the most widely used controls supported by Abstract (8) Window Toolkit (AWT). Explain briefly. b. Give brief notes on any **<u>TWO</u>** of the following: $(2\times4)$ (i) The delegation Event Model (ii) Applet class (iii) Remote Method Invocation (RMI) (iv) DNS

**ROLL NO.** 

3