Code: AC19

Subject: INTERNET & JAVA PROGRAM

ROLL NO.

AMIETE - CS (OLD SCHEME)

Time: 3 Hours

OCTOBER 2012

AM Max. Marks: 1 Com

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:

 (2×10)

- 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	 (B) 211 221 222
(C) 112 121 211	(D) 211121112

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

(A) draw ()	(B) Show ()
(C) update ()	(D) paint ()

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

(A) – protected	(B) – public
(C) – private	(D) – verbose.

AC19 / OCTOBER - 2012

1

AMIETE - CS (OLD SCHEME)

					ROLL NO.		
Coc	le:	AC19	Subject: INTE	CRNET & JAV	A PROGRAM	THE	
e. The set Background() method is part of the class							
		(A) Graphics(C) Component		(B) Applet(D) Container		12.6	
	f.	AC19 Subject: INTERNET & JAVA PROGRAM The set Background() method is part of the class (A) Graphics (B) Applet (C) Component (D) Container The methods wait () and notify () are defined in					
		(A) Java.lang.strin(C) Java.lang.obje	ıg	(B) Java.lang.Ru (D) Java.lang.Th	nnable		
	g.	Which of the for minimal capability	h				
		(A) RARP (C) TFTP		(B) FTP (D) TELNET			
	h. Which of the following TCP/IP protocol is used for transferring electronic mail messages from one machine to another?						
		(A) FTP(C) SMTP		(B) SNMP(D) RPC			
	i. A machine that connects to two or more electronic mail systems and transfers mail messages among them is known as					d	
		(A) Gateways(C) Bridges		(B) Mail gateway(D) User Agent	у		
	j.	ICMP (Internet Co	ontrol Message Pro	otocol) is			
		a low-level ph(B) a TCP/IP high another.(C) a protocol use	ysical hardware ad	dress. transferring files	n- level IP address to from one machine to		
			TVE Questions ou the question carrie		estions.	_	
Q.2	a.	Discuss briefly at	oout Subnet and Cl	assless Addressin	g.	(6)	
	b.	State briefly three	e basic categories o	of Address resolut	ion algorithms.	(6)	
	c.	Write brief notes	on IP Encapsulation	on, Fragmentation	and Reassembly.	(4)	
Q.3	a.	Describe the clien clients and server		. Write down var	ious characteristics o	f (10)	
	b.	The HTML page briefly each categ		into three genera	l categories. Explain	n (6)	
Q.4	a.	What is the purpoint of the pu		cuss about various	activities initiated by	y (8)	

AC19 / OCTOBER - 2012

2

AMIETE - CS (OLD SCHEME)

StudentBounty.com ROLL NO. Code: AC19 Subject: INTERNET & JAVA PROGRAM b. Determine the class of each of the following IP address: 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: (2×4) (i) The delegation Event Model (ii) Applet class (iii) Remote Method Invocation (RMI) (iv) DNS

AC19 / OCTOBER - 2012

3

AMIETE - CS (OLD SCHEME)