Nai	me :								
Rol	l No. :	•••••			••••	····			
Inv	igilato	r's Si	ignature : .		,	••••			
	•				SEM	-3/BCA-303/2013-14			
			•	2013	3				
			GRAPI	HICS AND	INT	ERNET			
Tim	ne Allo	tted	: 3 Hours			Full Marks : 70			
		Th	ie figures ti	n the margin	indica	te full marks.			
Co	andido	ates e	are require	d to give the	ir ansı	vers in their own words			
			* .	as far as p	ractico	ıble.			
	•			GROUP	A				
			(Multipl			estions)			
			(Maitipi	le Choice Ty	he Ar	lestions)			
1.	Cho	ose t	he correct	alternatives	for th	e following: $10 \times 1 = 10$			
	i) If your mail address is s@x.y.z.com then the don								
		nan	ne is						
		a)	com		b)	x.y.z.com			
	· ·	c)	w		d)	none of these.			
	ii)	One	common	format for sa	aving i	mages is			
		a)	.jpeg		b)	.mp3			
		c)	.wav		d)	none of these.			
	iii)	iii) The protocol used in conjunction with SMTP t mail for host is							
		a)	POP		b)	PPP			
		c)	FTP		d)	both (a) & (b).			
	iv)	Wh							
		a)	Cavalier		b)	Vanishing point			
		c)	Oblique	•	(7)	None of these			

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v)		omogeneous coordinate	rep	resentation [4, 2, 0]		
	a)	lying at infinity				
	b)	at (4, 2)				
	c)	at (4, 2) and at (2, 1)				
	d)	none of these.				
vi)	If P_0 , P_1 , P_2 be the control points (in sequent					
	ordering) then the Bezier curve must pass through					
	a)	P_0 and P_1				
	b)	P_1 and P_2				
	c)	P_2 and P_0				
	d)	points close to P_0 , P_1 a	nd	P_2 .		
vii)	for the line starting at					
	(1, 1) and ending at (12, 7) would be					
	a)	7	o)	11		
	c)	12	1)	more than 12.		
viii)	If we	e want to triple the s	ize	of an object twice in		
	succession, the final size would be times					
,	that of the original.					
	a)	3 t	o)	6		
	c)	9	i)	none of these.		
ix)	One browser to execute Java servelet is					
	a) .	access navigator h	o)	solaris		
	c)	posix	i)	none of these.		
x)	Two	successive reflections of	a po	oint equal		
	a)	clockwise rotation by 18	0°			
	b)	clockwise rotation by 90)°			
	c)	clockwise rotation by 27	o°			
	d)	none of these.				

GROUP - B

		Answer any <i>three</i> of the following. $3 \times 5 = 15$									
2.	a)	How many layers are there in TCP/IP model? 2									
	b)	Describe connection-oriented and connectionless									
		services provided by the transport layer.									
3.		fine the difference between IPv4 and IPv6. What is address ace? $4 + 1$									
4.	Pro	ove that the inverse of the rotation matrix is its									

- 5. Write the tags for the following settings in HTML:
 - a) Image tag
 - b) Table

transpose.

- c) Text Hyperlink.
- 6. Write the general form of a scaling with respect to a fixed point P(h, k).
- 7. What is aspect ratio? What do you mean by a resolution of a screen? 2+3

GROUP - C

(Long Answer Type Questions)

Answer any three of the following. $3 \times 15 = 45$ 3. a) Define the difference between Classful and Classless

- 8. a) Define the difference between Classful and Classless addressing. 5
 - b) What is protocol? Describe Java applet. 2 + 5
 - c) Write a short note on SMTP protocol. 3

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What is an IP address? State different IP address 9. a) classes. 1 + 4What is cookie? What do you mean by e-commerce? b) How many types of e-commerce are there? c) What are the differences between traditional business and e-business? 3 10. a) Write and explain Bresenham's algorithm for drawing a straight line. How does it remove the drawbacks of 3 + 3'DDA' algorithm? What is the difference between parallel projection and b) perspective projection? homogeneous coordinates c) Why are transformation computations in computer graphics? 5 5×3 11. Write short notes on the following: Raster scanning display a) b) FTP Server side programming c) d): **DNS** e) Shadow masking.