Total No	. of Qu	testions:7]	SEAT No. :						
P1013	3	[5310] 300		[Total No. of Pages : 3					
		[5319]-300							
		S.Y.B.C.A							
		SCIENCE							
]	BCA-304: Introduction to C	Comput	er Network					
		(2016 Pattern) (Sen	nister-I	II)					
Time :3H	lours]			[Max. Marks:70					
Instructi	ons to	the candidates:							
1)	_	tion No.1 is compulsory.							
2)		pt any two questions from group-I an	nd any two	o questions from group-II					
<i>3)</i>	_	nestions carry equal marks. Tes to the right indicate full marks.							
<i>4)</i> 5)	•	f scientific calculator is allowed.							
		,							
Q 1) A) A	Attem	pt the following		[7]					
a)		a connection more t	than two	devices can share a single					
	link	•							
	i)	Point -to -Point	ii)	Primary					
	iii)	Multi point	iv)	Secondary					
b)	Wh	ich layer of the OSS Reference r	nodel co	rresponds to IP protocol of					
	TC	P/SP protocol stack.							
	i)	Transport	ii)	Network					
	iii)	Internet	iv)	Data link					
c)	The RG number gives us information about								
	i)	Optical fibres	ii)	Twisted pairs					
	iii)	Coaxial cables	iv)	All of above					
d)	A telephone Network is an example of								
	i)	Circuit switched network	ii)	Packet switched					
	iii)	Message switched network	iv)	None of the above					
e)	Which one of the following is multiple access protocol for channel access								
,	control.								
	i)	CSMA/CD	ii)	CSMA/CA					
	iii)	Both i) & ii)	iv)	None of these					

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	f)	The	length of IP a	ddress	1S	b	its.			
		i)	46				ii)	32		
		iii)	16				iv)	64		
	g)	In the available bandwidth is divided into frequency bar								nds.
		i)	FDMA				ii)	TDN	ſΑ	
		iii)	CDMA				iv)	None	e of these	
	B)	Atte	mpt the follow	ing.						[7]
		a)	Define Topol	ogy.						
		b)	What is interf	ace.						
		c)	Define bit rate	e and b	it len	gth.				
		d)	Convert follo	wing I	PV_4 a	ddress fro	om de	cimal	rotation to bina	ary:
			221.34.7.82							
		e)	Define channe	elizatio	n.					
		f)	Define Netid	& host	id.					
		g)	List the frami	ng met	hods	in Data li	ink La	yer.		
					<u>GR(</u>	<u>OUP-I</u>				
Q2)	Atte	•	he following.							
	a)		•		_		_		disadvantages.	[5]
	b)		npare and cont				P refe	rence	model.	[5]
	c)	Writ	te a short note	on ung	guide	d media.				[4]
(2)	A 44	<i>1 1</i> *	1 (11)							
Q3)		-	he following.	ماء در ما	1- 1 -			1. 1.		[4]
	a)	Explain straight through cable and cross over cabling. [4]								
	b)	-		cteristi	cs on	which da	ata co	mmur	nication depend	
	c)		ne the terms:					•••		[3]
	1\	i)	Bit Interval		ii)	Bit rate		iii)	Bit length	[0]
	d)	Writ	te a short note	on sta	r top	ology.				[3]
Q4)	Atte	mpt t	he following.							
	a)	Give	e the advantage	es of T	oken	passing.				[4]
	b)								[4]	
	c)	Exp	lain IPV ₆ addr	ess spa	ice					[3]
	d)								[3]	
		i)	00000000	ii)	0101	0101	iii)	0011	0011	

[5319]-3004

GROUP-II

Q5)	Atte	mpt the following.	
	a)	Write a short note on cyclic Redundancy check	[5]
	b)	Explain the line coding characteristics.	[5]
	c)	Explain supernetting.	[4]
Q6)	Atte	mpt the following.	
	a)	What is unipolar line coding scheme. gives its drawbacks.	[4]
	b)	Given a data ward 1010011110 and divisor 10111	
		i) Show the generation of codeward at sender side (using bin division).	ary [4]
		ii) Show the checking of the codeward at receiver side (assume error).	no
	c)	Explain the fields in IPV ₄ datagram.	[3]
	d)	State the advantages and disadvantages of Non persistant CSMA.	[3]
Q7)	Atte	mpt the following.	
	a)	Give the advantages of computer Network.	[4]
	b)	Write a short note on Hub.	[4]
	c)	Explain the different modes of transmission.	[3]
	d)	Write a note on Infrared waves.	[3]





