# SRM University, Kattankulathur Faculty of Engineering and Technology, Department of Information Technology IT1018 - TCP/IP Technology CT2 -Question Paper

Degree : B.Tech	Specialisation: IT
Year/Sem: III/6 <sup>TH</sup> SEM	Date:28/04/2017
Duration: 3 Hours	Max. Marks: 100

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Register Number		

Instructional Objective covered in this test:

- 1. Understand the transport layer protocol and its characteristics.
- 2. Work with client server sockets and develop related applications to communicate with each other.
- 3. Learn and Understand IPV6 and wide area network technologies.

### Student outcome covered in this test:

1. An ability to use and apply current technical concepts and practices in the core information technologies(Outcome j)

**Sub-Outcomes:** 

- j1). An ability to use and apply current technical concepts in the core information technologies
- j2) An ability to use and apply current practices in the core information technologies
- 2.An understanding of the best practices and standards and their application(Outcome m)

Sub-Outcomes:

- m1):ability to understand best practices and applying them in applications.
- m2): ability to understand the standards available in various fields of computing and following it in an appropriate manner.

## Mark Allotment

Question	Instructional	Course	Sub	Me	arke	Outcome	Mark Scored
				Marks Obtained		Met/Not Met	
No	Objectives	Outcome	Outcome	Max Marks	Obtained	Met/Not Met	(/100)
					Marks		
1	IO2	m	m1	1			
2	IO3	j	j2	1			
3	IO2	m	m1	1			
4	IO2	m	m1	1			
5	IO3	j	j2	1			
		J	3				
6	IO3	J	j2	1			
Ü	100		J-	-			
7	IO3	j	j2	1			
,	103	J	J2	1			
8	IO3	j	j2	1			
0	103	J	JZ	1			
-	102		.0	1			
9	IO3	j	j2	1			
		_					
10	IO3	j	j2	1			
11	IO3	j	j2	1			
12	IO3	j	j2	1			

13	IO3	j	j2	1		
14	IO3	j	j2	1		
15	IO3	j	j2	1		
16	IO3	j	j2	1		
17	IO3	j	j2	1		
18	IO3	j	j2	1		
19	IO3	j	j2	1		
20	IO3	j	j2	1		
21	IO3	j	j1	4		
22	IO3	m	m1	4		
23	IO2	m	m2	4		
24	IO3	m	m1	4		
25	IO3	m	m1	4		
26	IO2	m	m2	4		
27	IO3	j	j2	4		
28a/b	IO2	m	m2	12		
29a/b	IO3	j	j2	12		
30a/b	IO3	m	m2	12		
31a	IO3	j	j2	12		
31b	IO3	j	j1	12		
32a/b	IO2	m	m1	12		

# OUTCOMES

OCTCOME	
MET	NOT MET

Staff Signature with date

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		Part-A	[Answer	all the (	Questions]		(20x1=20	) Marks)		
1. In	represer	ntation, th	e most si	gnificant	byte is sto	ored in t	he starting	address.		
					c. middle			. east endian		
2 In the ID	ve haadan tha tr	moffic alos	a field in	aimilan t	a which fi	ald in th	a IDv. 4 haa	dou0		
	v6 header, the tr fragmentation f		s neid is ToS field		c.TTL	eia ili ui	d.flags	uer?		
							Ü			
	programming									
a.	host	b. Netwo	ork	c. Client	(	1. none	of the abov	e		
4. SOCK_S	STREAM socke	ets are use	ed by							
a.	UDP	b. TCP			c. SCTP		d. FTP			
5. To make	e addresses mor	e readable	e. IPv6 si	pecifies		nota	ation.			
	dotted decimal				olon (			. Binary		
C 37 25 :										
6.X.25 is a	protocol	h techno	logy	c Data s	ervice		d Telepho	ne service		
a.	protocor	o. teemie	nogy	c. Data s	CIVICC		d. Telephic	nic service		
	vo computers us		want to	communi	cate but th	e packe	t must pass	through an I	Pv4 region,	which
	trategy should l	be used?					1 1 1 .	1		
	tunnelling either tunneling	a an baada	+mamala	tion			b. header t d. none of			
C.	etther tunnenng	g or neade	er transia	uon			d. Hone of	the above		
8. Which A	ATM layer has a	53-byte	cell as ar	end prod	duct?					
	physical						b. ATM			
c.	application ada	ptation					d. none of	the above		
9. PPP is a	layer	protocol.								
			nk	c. physic	al and dat	a link	d	. Network		
10 ATM:	a fundamentalle									
	s fundamentally circuit switchi						b. packet s	witching		
	narrow band	ng					d. none of			
c.	narow band						a. none of	the above		
	25 standard spe									
	technique for s		lata					ue for dial acc	cess	
С	. DTE/DCE inte	erface					d. data bit	rate		
12. IPv6	does not use _	typ	e of add	ress						
	broadcast	b.multic	ast		c.anycast		d.none of	the above.		
13 Whiel	n of the following	ng is not s	i IPv6 tr	ansition r	nechanisn	15?				
	VPN tunneling	15 15 1101 6	. 11 10 11	anonion i			b.PPP tuni	nelling		
	Teredo tunnelli	nσ					d GRE tur			

14.	The header length field a.fixed	is eliminated in IPv6 becaus b.variable	se the length of the h c. Optional	d. none	in IPV6.
15. I	Frame Relay operates in th A. physical layer	ne b. Data link layer	c. Both a & b	d. None	
16. 7	The IP protocol uses thea. AAL1 b. A	sublayer. AAL2 c. AAL5	d. Nor	ae	
17. 7		ase header restricts the lifeti Priority c. Ho	me of a datagram.	d. None	
18.	In the extension a. source routing	header, the destination addre b. Fragmentation			load
19. x	a. 25 was developed for co a. terminal connection	mputer connections used for b. Timesharing connec		d. None	
20. I	nternet users use the a. High-level Data Li c.Multipoint Protocol		b.Password Au d.Point to Point	athentication Proto Protocol	col
	Par	rt-B [Answer Any Five Que	estions]	(5x4=2	20 Marks)
22.D 23.D 24.V 25.D 26.w	1334:234:3647:8921: Difference between circuit Define socket.What are the Why ATM is called as a ce Draw the LCP frame forma	ll switching technique?Justif at. i) Hostent structure (ii) Me	ing. fy.	for the following.	
	Par	t-C [Answer all the question	ons]	(5x12=60 Mark	as)
28a.`	What is the use of various	byte ordering and address co		in socket program	ming with example. (12 marks)
	1	t system calls with syntax eling techniques used in IPvo [OR]	6.		(12 marks) (12 marks)
	i.Draw and explain IPV6 i ii.Compare IPv4 and Illustrate the working of A	IPV6 header ATM protocol			(8 marks) (4 marks) (12 marks)
31.i	Write notes on HDLC pro. What are the various IPV . Write the steps for IPv6				(12 marks) (6 marks) (6 marks)
32.a	Write the socket program.	nslation techniques used in II to transfer a file from server [OR]	Pv6 r to client ]		(12 marks) (12 marks)
32.b	. w nie a socket program i	for TCP client server commu	mication		(12 marks)