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Reg. No.:						

Question Paper Code: 20732

B.E/B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

Eighth Semester

Information Technology

IT 6008 — NETWORK PROGRAMMING AND MANAGEMENT

(Regulations 2013)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A — $(10 \times 2 = 20 \text{ marks})$

- 1. List the two ways to store the two bytes in memory.
- 2. What are the five I/O models available under UNIX?
- 3. What are the ways to get and set the options that affect a socket?
- 4. In what situation would an application programmer be most likely to use the setp_peeloff function?
- 5. Write about any three features provided by raw socket but not provided by normal TCP and UDP sockets.
- 6. What is a thread?
- 7. What are the objectives of MIB to serve the needs of a network management system?
- 8. List any two limitations of SNMP.
- 9. Write down the design goals of RMON.
- 10. What are the three types of access to management information provided by SNMPv2?

PART B — $(5 \times 16 = 80 \text{ marks})$

11.	(a) Compare the va	rious socket address	s structures.	•	(16)
		Or			•
-	(b) Write down the	steps taking place f	or the following	· · · · · · · · · · · · · · · · · · ·	
•	(i) Crashing o	of server Host			(6)
	(ii) Rebooting	of server Host			(5)
	(iii) Shutdown	of server Host		\mathbf{A}^{*}	(5)
12.	(a) With the diagram	m explain about SC	TP one-to-one sty	le socket funct	ions.
				A control of the second of the	(16)
		\mathbf{Or}			
	(b) Write the progra	um for UDP echo ser	ver and client.		(16)
13.	(a) Write short note	s for the following			
		t creation, Raw sock	et input, Raw soo	eket output	(12)
	(ii) IPV4 Vs IP		. ((4)
		Or			
	(b) Explain the impl	ementation of a tra	ce route program	in detail.	(16)
14.			•		
14.	(a) Discuss about W	IB structure in deta	n with diagram.		(16)
		Or			
	(b) (i) With a near protocol are	t diagram explain chitecture.	in detail the no	etwork manage	ement (8)
	(ii) Analyse the	e role SNMP proxies	in network com	nunication.	(8)
15.	(a) Analyse the role	of RMON in networ	ks.		(16)
		Or			
	(b) Explain the archi	itecture of SNMPv3	with neat diagra	.m.	(16)