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RN-7367

B. E. - IV (Sem. VIII) (Computer) Examination

May / June - 2010

Computer Networks - II

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दर्शाविए निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.		Seat No. :
Name of the Examination :		<input type="text"/>
B. E. - 4 (Sem. 8) (Computer)		<input type="text"/>
Name of the Subject :		<input type="text"/>
Computer Networks - 2		<input type="text"/>
Subject Code No. :	<input type="text" value="7"/> <input type="text" value="3"/> <input type="text" value="6"/> <input type="text" value="7"/>	<input type="text"/>
Section No. (1, 2,.....) :	<input type="text" value="1&2"/>	
		Student's Signature

- (2) Use **separate** answer sheet for each sections.
- (3) Make assumption whenever required.
- (4) Numbers on the right indicate marks.

SECTION - I

- 1 (a) Answer the following questions. Each question carried one mark : 10
- (1) What are the responsibilities of Network layer ?
 - (2) How many addresses are available in class D ?
 - (3) What is the maximum number of subnets for class B with mask 255.255.192.0 ?
 - (4) Classful addressing is a special case of classless addressing. True or False ?
 - (5) What is the maximum size of TCP header ?
 - (6) The following is dump of a UDP header in hexadecimal format :
06 32 00 0D 00 1C E2 17
What is the length of data ?

- (7) Define direct delivery.
- (8) Is it necessary to include checksum in UDP ?
- (9) What is piggybacking ?
- (10) What is proxyARP ?
- (b) An ISP is granted a block of addresses starting with 120.60.4.0./20. The ISP wants to distribute these block to 100 organizations with each organization receiving 8 adresses only. Design the subblocks and give the slash notation for each sub-block. Find out how many adresses are still available after these allocations. **10**
- 2** (a) Explain CIDR notation with example. **5**
- (b) Explain difference between ARP and RARP. **5**
- (c) Explain IGMP operations in brief. **5**
- 3** (a) Explain various ICMP queries in detail. **8**
- (b) What is the use of Keepalive timer of TCP ? **2**
- (c) Explain uses of UDP. **5**
- OR**
- 3** (a) Discuss services provided by TCP. **7**
- (b) Explain option types of IP. **8**

SECTION - II

- 4** (a) Answer the following questions : (Each question carries one mark) **10**
- (1) In TCP, a SYN segment can not carry data, but it consumes one sequence number during connection establishment. Is it true or false ?
- (2) Which protocols can be used for inter domain routing ?
- (3) In RIP, periodic timer is set to _____ seconds.
- (4) What is direct broadcast address ?
- (5) How does BOOTP provide error control ?
- (6) What is FQDN ?
- (7) Which control characters are used for option negotiation in TELNET ?
- (8) FTP needs _____ TCP connections.

- (9) MIME stands for _____.
- (10) Which protocols co-operate each other for management on the internet ?
- (b) (1) What are the differences between distance vector routing and path vector routing ? 4
- (2) Briefly discuss BGP packets. 6
- 5 (a) Why is BOOTP protocol required ? "BOOTP client uses the well-known port 68, which is unusual." Comment on this statement. 7
- (b) Which are the different FTP commands ? Discuss them briefly. 8
- 6 (a) Discuss different types of documents in the WWW. 7
- (b) Discuss SNMP packets (PDUs). 8
- OR**
- 6 (a) What is three-node instability ? Explain with diagram. 5
- (b) Explain following terms with respect to domain name space : 5
- (1) Label
- (2) Domain
- (3) Zone.
- (c) Briefly explain the control characters that can be used to control the remote server in TELNET. 5
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