*6!b StmC1(((.. /q1 d.*



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SPRING ENO SEMESTER EXAMTNATION-20 14

6•Semester B.Tcc:b *I* 8.Tech Dual

**COMPUTER NETWORKS** IT-603

(Rq',lllar-?Oll & Back-2010. 09 Admiucd B:uch)

# Full Marks: 60 Time:3 Hou rs

*Answu any SIX quation> lllC'lullmg Qtltion /\'a.I wltklr is compubory·.*

*'/Mfiflllll:•* /11*tht* """1(in *urlkvJ<jull tr.arh*

*CIJflt.1id111cs (]ff! l'l?tfllll\'llk>X' '·• 1/1e1r* tPtnl't'l't *in t/r*,*u1>n"'Cftb*a.T*f11r a• pn11:1f(y1Ne*

*tJJld* llf!.JJ!Y...11 *Q[a '111€•.l!<•n..MJ1.111/d. I 01011"11/ucr.* r11t!y

1. An.w'Cfoll thcqucmions [2 >< I0
   1. lr1 11Go-Buck-N AltQ, if tbl." window *i1.c* is 63, wha1 is the

rru1 ofseq1.11n0c: num *>*

h) llbcuss the ud\'anillg nnd d1s3Jvanmges of Swtic ilJ)(j

dynmnicrouting 11.bk

c) 0L'it111guish now controlanJ conge:;tion Conlll)I.

d) In TCP.an endpoint rc:mniru for 2MSLin the TI". IE\_\VArr

Sllllc.E'.(plain.

1. Distinguish franwission und Propagmion Dehl)
   1. In what sitWlrion.s contention based MAC protocols are

sui!Wlc?

g) What istheuseof twodimr.:nsionnl p:mty inc:rrordetcdion?

h) Find out the Subnet nddn:ss if the dcstirunioo address is

1911.47.J.l.31 and subnc:t Jru.'ik Is 'ISS.255.224.0.

i) Vutual ciTCUJt vsdatogrwn nctworl.;.

(I)

***i.·11r-t :n11 .'tOT iitg IAJ .sr..Jlrf £ili)llf"t411(••·1fttl***

•

j) Why did the l)ntll Link Protocol always put the CRC in n trailer rather lhun intheheader'?

|  |  |  |
| --- | --- | --- |
| 2. n) | Com pare and Contm. t Oo-Back-N ARQ protocol with | (4 |
|  | Selectivc-Repeme ARQ protocol w.r.to send 3Ild receive |  |
|  | \\"indow sizl:. timCJSandacknowledgemenL |  |
| b) | E. plain Autonomoussystcm and list routingprotocols used insideandacrossAutonomou ssysmm. | (4 |

3. a) Ex. plain howCRC isus.xi in dcta:ting Errorsfor lhcfollowing (4 polyn<>minl. g(ic) x'•ic..l.Con thc inrom\lltion Sequence

110101101 l. Find th11 c11ckw1ml corresponding to this

s.:quencc.

b) Discuss lhcWindow Management in TCPtran.'.imissioo policy !4

whh n 11cat dingrom.

4 n) Con. idcr 'IC'llding n pl.(1-et froma sourcehost 10adestination (4

hostocrafi'lc.'J route. li\l wid "- lain th:delaycomponenl m theend-to-end delay Which of thc:;edclt1)'Sarccons1nn1 andwhich ure variable?

b) List lhc fourbmadclasscsofla'iccs !hata tr.insport protocol t4

C3ll provide.Foreach of the S<".f'\'icc classes,indicate ifcilhi:r UDPorTCP (or both) provides such n service.

(4

|  |  |  |
| --- | --- | --- |
| *s.* | a) | E. :linAdJll:ssingund Channel DCCCSScontl\ll mccharusm for |
|  | b) | Ethernet LAN  OISCUSli the Vllrious F.rror 0.-.tcction mcch:uUsms indetail. |

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(2)

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701'-WT/SJ"l"I

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# ..\_6. a) C:xplain colli)ion nvuidnncc/rccovcry with P persitcnt/ C'\'J>Qncntlal l\ickoff rmxh.1111,,111

b) C<in. itlcr tl1cdeloyof pureAl.OJ IA\·cr.;us slot\LOHA ur lowload. Which 1111e i lc:.s?ll. pluin ,>our 1u1w11:1;

.(4

(4

7. Wrirc:shonnotes onl!!li.:! ofthefollowings:

ii RIP vs OSPF

1. Link Staie Packet (LSP)

iii) host byte order vsnetwork b)1C order

r.1 Open loopvs*Close* loop t'.Ongcstion oonr:rol

# *\')* Emir Dl:r-crion vs l rrorcnm:criun



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***AllT·l ?al" ScJT .-xpr,,.8 £rwl* .. ,.,.,,r w,.,,.-'llOlt *"rlll***

(2 x *4*

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