15 131 intraduction to Computer Networks Test 2 (15 marks). 25" June 2018 - 1200 - 1400

instructions:

- 1. This test consists of 20 questions.
- Answer Att questions.
- Marks are allocated against each question.
- QT. For each of the following statements, choose the letters; of the most correct statement and write its letter in the answer sheet provided: (ratum 0f)
 - The length of MAC addresses is:
 - A 24 bits
 - B. 24 bytes
 - C 48 bytes
 - D 48 bibs
 - Which type of connector is mostly used these days for connectivity with the network card?

 - A SNC
 - C REAL
 - D: RF33
 - pid. The tibre optic cable in which the signals follow multiple paths is called:
 - A. Single made
 - B: Multimode
 - + C. Broadband
 - D. Baseband
 - Which among the following uses RJ-45 connectors?
 - A Thick coasial cable
 - B. Unshielded wested pair cable
 - C. Shierded pair cable
 - D. Then consent cable
 - What is the purpose of twisting the pairs of cables together in a UTP cable?
 - A To restuce attenuation
 - A Tochestace communate
 - C la reduce tile tro magnetic interference
 - EL TERRESCENOISE
 - What is the recommended manomum length for a segment of UTP cable?
 - A Spon
 - a traine

A defended with 25 companies or companies with the dead recover of caloring better among the freepwarts to the freest worked Sociology for such is removed." N. Admin Super-copy. St. Mar Promotogy C BUILTONNOUS * 12. King sociology If the Hamming dispute senses a datasent and the corresponding comment is these, now many bets are to speci. + A) T B 102 æ . Doc 4 What is the difference between a phone cable and an Ethioreat come? A . Proces paper is thicker shan Ethernet babbs TB Elfumud vable is thicker than phone cable C. Priome usale has a larger connector at the envi 21 Phone cable splits vito burr acquarate wires An Ethernet frame which contain one in the following list 4A -MAT entitiess H. IP address. Both MAC and Iff address D. Signer of the above A point-to/positiousi Ethernet is a network protocol for CWS A Encapsulating 899 hames inside Emercet frames. II Emaphiliating Ethernet frames inside PPP homes C Securing Ethernes Numes O Securing TPP frames Which of the following metha communicate in unicast mask? A Radio wines. B. Microsophies C IIII/amd D. Wuetoch The maximum size of paylow field in an Elbernet frame is: A 1000 bytes # 1200 bytes C-1300 tytus D (GliClintics The community of an Ethernet Name is

Which (up layer of the cuts link layer performs data and functions that outpays on the type of mediumic

· A. Legical Link sub-layer

B. Media Access Control sub-layer

C. Network interface control suiti fayer

D. None of the above

A souder sends the following strong of time 0011000101 and the receiver received 8011001001. This (invi) type of erior is referred to se-

A: Random arror

B. Burst error

C: Single innot

D. Inverted error

Which of the Johnson make not be an Ether ast written mentionalists

A 43/78 6C DE 10/00

B. 48AAC12316923

C. VARISHER TANDERS

D' 463 212 140 34

The GET 802 S is steed in

A. Tokenthus

A. Ethernet

*C Token (ing)

D. Volice Data

in toyte stuffing, a special light is afford to the data section of the frame when there is a chiracter 0000 with the spine pattern air.

-A Flag

B. Errete

C French

D tealer

The sumport and stop cost west protocots are for which types of one must," 0000

A Nosty*

H. Nobelon

· C. ESTIM A OT !

St. Normal this attorney

the wave TRUE for water and FALSE for model statements for each of the hydroxing statement (5 marks)

of purpositions the community was necknown products and facts operate at the Network layer of the OS month.

Operations are assett so the data and centiled at the despiration

Considerable and the same group of which shad data can be constroid by securiting.

It a decree size and home its permit address it can abilities ARR

Free tree on the partition of the bank of the Alexander of the De

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(xv).	medium?
	A Logical Link sub-layer
	B. Media Access Control sub-layer ,
	C. Network Interface control sub-layer D. None of the above
	S. Mark of the store
(xvi).	A sender sends the following string of bits: 0011000101 and the receiver receives: 0011001001. This type of error is referred to as:
	A. Random error
	Burst error
	C. Single error
	D. Inverted error
(iorii).	Which of the following as 14 and 11 and 12
	Which of the following could not be an Ethernet unicast destination? (A) 43:78:6C DE:10:00
	B. 44:AA:C1:23:45:32
	C. 46:56:21:1A:DEF4
	D. 48/32/21/4D:34
eviii).	The IEEE 802.5 is used in:
	A. Token bus
	B. Ethernet
	D. Voice Data
(XIX).	In byte stuffing, a special byte is added to the data section of the frame when there is a character
	with the same pattern as:
	A Flag.
	B. Error
	C. Frame
	D. Trailer
	The simplest and stop-and-wait protocols are for which types of channels?
(xx),	
	A Noisy
	Naiseless
	C Either A or B
	D. None of the above
Write	TRUE for valid and FALSE for invalid statements for each of the following statements (5 marks)
/IIA	Connectivity devices such as repeaters and hubs operate at the Network layer of the OSI model. F
(1)	as the design of the state and vertical at the destination
(ii).	Segments that belong to the same group of subdivided data can be identified by sequencing.
(11)	If a device does not know its own IP address, it can still use ARP.
(V)	The Hamming distance between equal codewords is 0.
(V).	The Hamming distance between equal code no very

QZ