

✓ Congratulations! You passed!

TO PASS 80% or higher

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Final Exam - IHTS

latest submission grade 100%

1.	How did the top-secret computing technologies developed at Bletchley Park during World-War II impact computing technology after the war:	1/1 point
	All of the computing equipment was shipped to CERN where is was stored underground beneath the border between Switzerland and France	
	One of the computer scientists at Bletchley Park anonymously wrote a tell-all book that described secret technologies in great detail	
	All the equipment at Bletchley Park was given to University College London(UCL) as part of a grant	
	The plans for the computers at Bletchley Park were inadvertently leaked onto the Internet	
	The computer scientists used their knowledge of electronic computers to build the first generation of general purpose computers	
	✓ Correct	
2.	What did Alan Turing contribute to Computer Science?	1/1 point
	He developed the Domain Name System that looks up IP addresses	
	He developed the slow-start algorithm for TCP	
	He founded the field of Artificial Intelligence	
	He designed the first object-oriented programming language	
	He helped design the IEEE 802.11 protocols that we now know as "WiFi"	
	✓ Correct	
3.	What was the primary reason the Colossus computer was faster than the BOMBE computer?	1/1 point
	The Colossus computer used vacuum tubes instead or gears and relays	
	The Colossus computer used Flash RAM rather than spinning disk drives	
	The Colossus added cache memory to speed up instruction fetch	
	The Colossus computer sharded its databases across multiple servers to improve throughput	
	The Colossus computer submerged its bearings in oil to allow it to spin four times faster	
	✓ Correct	
4.	Which of the following was the greatest weakness of store-and-forward networks like BITNET?	1/1 point
	O Since it made extensive use of WiFi, it experienced significant outages due to weather	
	O IP addresses were geographical in nature but extremely difficult for users to keep track of	
	Every new university that was added cost a lot of money because everyone needed a direct connection to the new university	
	If your message was behind a large message it would have to wait until the large message was completed before it was sent.	
	Because messages were broken into small pieces and sent individually, buffer overflow caused too many	

Invented the Hypertext Transport Protocol (HTTP)

Invented the first HTML editor

Define standards for the web and avoid proprietary balkanization of the web

	✓ Correct	
15.	Why was the first product sold by Amazon books?	1/1 point
	Because there would be great demand for new technology books fueled by the growth of the Internet	
	Because books are the easiest product to covert to digital form for electronic distribution	
	Because books were increasingly being purchased on e-readers like the Kindle	
	Because there are over 3 million books in print	
	Correct	
16.	Which of the following is most similar to an Internet router?	1/1 point
	A string between two tin cans	
	○ A truck	
	O A post card	
	A license plate number for an automobile	
	A train station	
	✓ Correct	
17	About how many converts abusing connections (i.e. horse) will a product group on the Intersect as it may from	
17.	About how many separate physical connections (i.e. hops) will a packet cross on the Internet as it goes from University of Michigan to Stanford University?	1/1 point
	○ 36	
	O 1	
	15	
	○ 6	
	O 64	
	✓ Correct	
18.	What is the value of a layered network model?	1/1 point
	It allows a complex design problem to be broken into smaller manageable parts	
	 It makes sure that university programmers and commercial programmers will not work on overlapping areas the Internet 	5 01
	It insures that the Internet is capable of replacing the telephone networks around the world	
	It makes sure that at least one layer is working so internet data never stops flowing completely	
	It allows for the detection of security breaches at the lower layers before they get through all the layers	
	✓ Correct	
	Correct	
19.	What is the IETF?	1/1 point
	It establishes policies for the pricing for domain names around the world	
	It is the protocol that web browsers use to retrieve documents from web servers	
	It accumulates data packets that are lost due to congestion and returns them to the system that originally se the data	nt
	it monitors traffic levels on network links that go between countries to insure that costs are evenly shared	
	It is a coordinating body where the standards that define the inner workings of the Internet are developed ar	nd

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25.	What problem did Van Jacobson solve in TCP?	1/1 point
	He added compression to the link layer, greatly increasing throughput of the Internet	
	He added encryption so it was safe to move credit card information across the Internet	
	He made sure that commercial web traffic like Netflix would get higher priority than academic traffic or long file downloads	
	He invented the slow-start algorithm to keep systems from overloading a slow link	
	He created the domain name system to allow us to find an IP address for a domain name efficiently	
	✓ Correct	
26.	When we talk of the protocols that move data over the Internet, we talk of TCP/IP. Which of the following is FALSE about TCP/IP?	1/1 point
	TCP provides reliable messaging where data arrives in order	
	○ IP provides "best effort" delivery of network packets	
	TCP will retransmit data if it is lost in the Internet	
	IP makes use of TCP as its underlying transport mechanism	
	○ TCP is a stream of bytes	
	✓ Correct	
27.	Secure TCP (TLS) is between which two layers?	1/1 point
	Application and Transport	
	Router and Link	
	Transport and Internet	
	Link and Media	
	○ Internet and Link	
	✓ Correct	
28.	When you are using secure http and sending data between your computer and your bank's computer, where is the data encrypted and decrypted?	1/1 point
	Encrypted by your Internet Service Provider (ISP) and decrypted in the bank's ISP	
	Encrypted by your keyboard and decrypted by the disk drive in the bank's computer	
	Encrypted and decrypted each time your message passes through a router	
	Encrypted in your network card and decrypted by the bank's Internet Service Provider (ISP)	
	Encrypted in your computer and decrypted in the bank's computer	
	✓ Correct	
29.	Which of the following is a TCP port (such as port 80 for HTTP) most like?	1/1 point
	○ A train car	
	A telephone extension	
	(A train station	
	A license plate number for an automobile	
	A country code for a telephone number	
	✓ Correct	

50.	Which of the following community is pure of the Hypertext Humsport Frotecom (1111).	17 I point
	○ PREFS	
	O PING	
	RETR	
	(a) GET	
	O SAVE_AS	
	JAVE_23	
	✓ Correct	
	¥	
31.	What is the problem with secret key distribution via the internet?	1/1 point
	Secret keys used a special character set that was not supported by TCP/IP	
	Sending secret-key data crashed early routers and so it was banned after 1978	
	We cannot all physically visit every web site and physically pick up a key book to work securely with that site	
	There is no problem - you just send all the secret keys across the internet in plain text	
	Because secret keys were mostly numbers, they cause the Van Jacobson Algorithm to fail (slow start)	
	1.5	
	Correct	
32.	What does a cryptographic hash function do?	1/1 point
	It breaks long messages into smaller pieces (hashes) to allow for effective sharing of a link layer	
	It takes a block of data and computes a fixed-size bit string called the hash value	
	It determines the resonant frequency of digitized audio	
	It takes non-printable data and makes it 8-bit clean	
	✓ Correct	
	Correct	
33.	Which of the following is credited as one of the inventors of Public Key Cryptograhy in the 1970's?	1/1 point
	Whitfield Diffie	
	○ Bob Mercalfe	
	Mitchell Baker	
	() Katie Hafner	
	✓ Correct	
	V contact	
34.	Which historical figure is credited with encrypting military messages using a simple "shifted alphabet"?	1 / 1 point
	Plato	
	Archimedes	
	Caesar	
	Nostradamus	
	Nostradantus	
	✓ Correct	
	¥	
35.	Which of the following are the steps to sign and send a message to insure that the message came from the	1/1 point

Append the shared secret to the message, compute the cryptographic hash of the message + secret, send the message + secret, send the message + secret the internet.

sender and was not modified in transit?

message + cryprographic nash across the internet	
Ompute the cryptographic hash of the message, send the message + the hash + secret across the internet	
 Send the secret across the internet, receive the cryptographic hash from the other system and then send the message + cryptographic across the Internet 	
Ompute the cryptographic hash of the secret and send the message + the hash across the internet.	
✓ Correct	
36. Which of the following statements is false	1/1 point
A public key can be sent across an insecure medium	
Public key encryption is very difficult to break	
It is not a problem if a public key is revealed to an eavesdropper	
Public key encryption cannot be broken	
✓ Correct	
	1/1 point
C Linear Algebra	
○ Venn Diagrams	
Turing Machines	
○ Trignometry	
Calculus	
Prime numbers	
✓ Correct	
38. Considering the four-layer TCP/IP model, which two layers does Secure Sockets Layer (SSL) fit between?	1/1 point
○ TCP and IP	
Application and TCP	
○ IP and Link	
TCP and Link	
✓ Correct	
39. If you are sending credit card information from a coffee shop WiFi to an Internet web site and later you find your credit card information has been stolen, which is the most likely scenario as to how your information was stolen?	1/1 point
Osomeone guessed your credit card information by trying all possible 16-digit number sequences	
Osomeone gained access to the database on the vendor's web site and found all the credit cards	
Someone gained access to all the packets passing through the Internet Service Provider used by the coffee shop	
You did not use secure HTTP (https) at a coffee shop with an open WiFi	
✓ Correct	
40. Which of the following would be major a warning sign that indicates lax security practices when dealing with a site where you have an ID and Password?	1/1 point
They use public / private key encryption for all the web transactions	

 $\textcircled{ } \ \ \, \textbf{ They can send you a mail message with the password you previously used to log in if you forget it }$

They use Captcha (where you have to type in hard-to-read text) as part of their log in process
O If you lose your password, you are forced to select a new password
✓ Correct