DLMCSNDS01\_Unit01\_Question01

Which of the following is not a key component of digital data transmission?

* cryptography (1 Pts)
* protocols (0 Pts)
* link (0 Pts)
* message (0 Pts)

DLMCSNDS01\_Unit01\_Question02

In terms of spatial coverage area, which network is the largest?

* WAN (1 Pts)
* BAN (0 Pts)
* PAN (0 Pts)
* MAN (0 Pts)

DLMCSNDS01\_Unit01\_Question03

If the signal to noise ratio is 1, and bandwidth is B, then what is the value of capacity C?

* B (1 Pts)
* 0.5B (0 Pts)
* 2B (0 Pts)
* 4B (0 Pts)

DLMCSNDS01\_Unit01\_Question04

What is the frequency range of a microwave?

* 1 GHz – 300 GHz (1 Pts)
* 100 GHz – 3000 GHz (0 Pts)
* 1 MHz – 300 MHz (0 Pts)
* 300 GHz – 1000 GHz (0 Pts)

DLMCSNDS01\_Unit01\_Question05

If the packet size is 8kb and data transmission rate is 8Mbps, then what is the transmission delay?

* 0.001 s (1 Pts)
* 0.001 ms (0 Pts)
* 1 s (0 Pts)
* .01 ms (0 Pts)

DLMCSNDS01\_Unit02\_Question01

How many layers are there in the OSI model?

* 7 (1 Pts)
* 6 (0 Pts)
* 5 (0 Pts)
* 4 (0 Pts)

DLMCSNDS01\_Unit02\_Question02

How many layers are there in a switch?

* 2 (1 Pts)
* 3 (0 Pts)
* 5 (0 Pts)
* 7 (0 Pts)

DLMCSNDS01\_Unit02\_Question03

How many leftmost bits of the IP address 192.168.0.4/20 are used for subnet masking?

* 20 (1 Pts)
* 32 (0 Pts)
* 12 (0 Pts)
* 10 (0 Pts)

DLMCSNDS01\_Unit02\_Question04

How many hops can be handled at most by routing information protocol (RIP)?

* 15 (1 Pts)
* 16 (0 Pts)
* 200 (0 Pts)
* Undefined (0 Pts)

DLMCSNDS01\_Unit02\_Question05

What is the source IP of the DHCP DISCOVERY message?

* 0.0.0.0 (1 Pts)
* 1.1.1.1 (0 Pts)
* 255.255.255.255 (0 Pts)
* 127.0.0.1 (0 Pts)

DLMCSNDS01\_Unit03\_Question01

Which of the following statements is not correct?

* Packet switching requires a dedicated path between sender and receiver (1 Pts)
* Circuit switching requires a dedicated path between sender and receiver (0 Pts)
* ARPANET was based on packet switch (0 Pts)
* Packets from a same source can take different paths to reach to the destination (0 Pts)

DLMCSNDS01\_Unit03\_Question02

Internet protocols are divided into …

* … five layers. (1 Pts)
* … seven layers. (0 Pts)
* … six layers. (0 Pts)
* … five or seven layers. (0 Pts)

DLMCSNDS01\_Unit03\_Question03

HTTP operates on which port?

* 80 (1 Pts)
* 25 (0 Pts)
* 68 (0 Pts)
* 67 (0 Pts)

DLMCSNDS01\_Unit03\_Question04

Which of the following is not a secure protocol?

* FTP (1 Pts)
* SSH (0 Pts)
* TLS (0 Pts)
* HTTPS (0 Pts)

DLMCSNDS01\_Unit03\_Question05

Which of the following is not true about DNS?

* It is a network layer protocol. (1 Pts)
* It operates on UDP port no. 53. (0 Pts)
* It retrieves IP address from hostname. (0 Pts)
* DNS is used by application layer protocols, such as HTTP and SMTP. (0 Pts)

DLMCSNDS01\_Unit04\_Question01

Which of the following statements is not correct?

* Client-server services operate on P2P architecture. (1 Pts)
* A webserver operates on client-server architecture. (0 Pts)
* The transport layer of client-server architecture operates on TCP or UDP. (0 Pts)
* Apache is an open-source webserver. (0 Pts)

DLMCSNDS01\_Unit04\_Question02

What is WireMock?

* a platform for testing microservices (1 Pts)
* a packet sniffer (0 Pts)
* a protocol analyzer (0 Pts)
* a packet tracer (0 Pts)

DLMCSNDS01\_Unit04\_Question03

Which of the following statements is not correct?

* The time-sensitive data processing can be done by the data centers at network core. (1 Pts)
* Typically, cloud servers are located at the network core. (0 Pts)
* Clients are located at the network edge. (0 Pts)
* The time-sensitive data processing can be done by the edge data centers. (0 Pts)

DLMCSNDS01\_Unit04\_Question04

Which application or service does not operate over P2P?

* web browser (1 Pts)
* BitTorrent (0 Pts)
* µ Torrent (0 Pts)
* Skype (0 Pts)

DLMCSNDS01\_Unit04\_Question05

Which of the following is not an example of a web service standard?

* DHCP (1 Pts)
* XML (0 Pts)
* SOAP (0 Pts)
* WSDL (0 Pts)

DLMCSNDS01\_Unit05\_Question01

Which of the following statements is not correct?

* The goal of unmarshalling is to convert data to an encrypted format. (1 Pts)
* Client-stub encapsulates a message before transferring to the server. (0 Pts)
* When a server receives a message, it passes through the server stub. (0 Pts)
* Marshalling is the process of encapsulating a parameter. (0 Pts)

DLMCSNDS01\_Unit05\_Question02

Which of the following is not an example of distributed algorithm?

* Berkeley algorithm (1 Pts)
* centralized algorithm (0 Pts)
* decentralized algorithm (0 Pts)
* Token Ring algorithm (0 Pts)

DLMCSNDS01\_Unit05\_Question03

Which of the following is not a property of distributed transaction?

* client-server transparency (1 Pts)
* location transparency (0 Pts)
* replication transparency (0 Pts)
* concurrency transparency (0 Pts)

DLMCSNDS01\_Unit05\_Question04

Which of the following is not a way to implement secure access control for distributed system?

* virtual private network (1 Pts)
* access control list (0 Pts)
* access certificate (0 Pts)
* firewall (0 Pts)

DLMCSNDS01\_Unit05\_Question05

Which of the following statements is incorrect about Lamport's clock?

* It's a physical clock based on crystal oscillation. (1 Pts)
* “Happens before" is indicated by the arrow symbol. (0 Pts)
* A → B means event A occurs before event B. (0 Pts)
* if A → B is true then C(B) = C(A) + n. (0 Pts)

DLMCSNDS01\_Unit06\_Question01

Which of the following is a DLT platform?

* ethereum (1 Pts)
* blockchain (0 Pts)
* device layer (0 Pts)
* NodeMCU (0 Pts)

DLMCSNDS01\_Unit06\_Question02

Which of the following is not a property of DLT?

* centralized (1 Pts)
* decentralized (0 Pts)
* distributed (0 Pts)
* immutability (0 Pts)

DLMCSNDS01\_Unit06\_Question03

Which of the following is not a necessary component of IoT?

* coaxial cable connection (1 Pts)
* sensor (0 Pts)
* actuator (0 Pts)
* cloud (0 Pts)

DLMCSNDS01\_Unit06\_Question04

Which of the following statements about LoRa is not correct?

* LoRa operates on 60 GHz mm Wave. (1 Pts)
* LoRa stands for “low range.” (0 Pts)
* LoRa is based on a low power wide area network. (0 Pts)
* LoRa operates on license free frequency bands, i.e., ISM bands. (0 Pts)

DLMCSNDS01\_Unit06\_Question05

Which layer does not belong to ESP8266 protocol stack?

* session (1 Pts)
* transport (0 Pts)
* application (0 Pts)
* network (0 Pts)