

# **Satellite, Wideband, and Telemetry Systems Journeyman**

## **Student Practice Pretest 3**

**CDC 2E151  
Edition 01**

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## CDC 2E151 Ed01, Pretest 3

**Opr:** MSgt Robert E. Williams  
Detachment 1, 338<sup>th</sup> Training Squadron  
Satellite, Wideband, and Telemetry Systems (AETC)  
Det 1, 338TRS/TDE  
25<sup>th</sup> Street (Bldg 25702)  
Fort Gordon, Georgia 30905-5668  
DSN: 780-8878  
E-mail address: [cdc2e1x1@338trsdet1.gordon.army.mil](mailto:cdc2e1x1@338trsdet1.gordon.army.mil)

**Note:** A passing score on the final end of course exam is a 65. This practice exam contains a sampling of URE questions extracted from the 2E151 Ed01 CDCs. URE questions only comprise about 70% of the actual end of course exam. Therefore, it's recommended that this practice exam be used only as a tool to find out which lesson objectives that a student may be weakest in (prior to taking the final course exam), and not as the sole means of exam preparation.

**Multiple Choice**

***Note to Student: Consider all choices carefully. Then select the best answer to each question.***

1. (200) When can a shop standard be used for routine maintenance functions?
  - a. During critical alignments when accuracy is vital.
  - b. If an emergency condition exists and like test equipment is inoperative.
  - c. When like items are not calibrated and preventive maintenance inspections are due.
  - d. When normal shop items are at another location, and authorization has been provided.
  
2. (400) Who must apply risk management and still develop a commitment to mission accomplishment and the welfare of subordinates?
  - a. The individual.
  - b. Supervisors.
  - c. Staff.
  - d. Commanders.
  
3. (600) Which time scale gives us a universally agreed to standard time scale we can depend on with the stability and accuracy of atomic time and synchronous operation with the earth's motion about the sun?
  - a. Atomic time.
  - b. Universal time.
  - c. Mean solar time.
  - d. Coordinated universal time.
  
4. (804) Which is a single failure point for the MARK IVB?
  - a. Switch controller.
  - b. Frame synchronizer.
  - c. Defense Meteorological Satellite Program bit synchronizer.
  - d. Time code generator/translator.
  
5. (900) When compared to space diversity, two advantages of frequency diversity are that it
  - a. is more economical and provides backup.
  - b. is cheaper and provides greater channel capability.
  - c. conserves the frequency spectrum and provides backup.
  - d. has greater channel capability and conserves the frequency spectrum.
  
6. (402) How many grounding rods are required when using a 5 wire grounding system?
  - a. 1.
  - b. 2.
  - c. 4.
  - d. 8.

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7. (603) By international agreement, all UTC scales must agree with the UTC scale operated by the International Bureau of Weights and Measures to within
- ±1 second.
  - ±1 nanosecond.
  - ±1 millisecond.
  - ±1 microsecond.
8. (807) Which are *primary* functions of the satellite tracking set?
- Record and supply data to the data reduction center, and transmit secure commands to the satellite.
  - Record and supply data to the data reduction center, and receive stored data through the domestic satellite relay.
  - Provide weather imagery and information to remote users, and transmit secure commands to the satellite.
  - Provide weather imagery and information to remote users, and receive stored data through the domestic satellite relay.
9. (901) What are the three main groups of features shown on topographic maps?
- Land surface, culture, and relief.
  - Land surface, water, and roads.
  - Water, culture, and roads.
  - Water, culture, and relief.
10. (200) Which test equipment item is *most* likely to be tropicalized and fungus-proofed?
- Laminated circuit board.
  - Component socket.
  - Connector.
  - Relay.
11. (604) When time code is unmodulated (no carrier), we refer to it as
- AC.
  - DC.
  - pulse modulation.
  - frequency modulation.
12. (809) The global positioning system navigation almanac is a
- data base of nuclear detonation detection events and clock parameters transmitted.
  - data base of nuclear detonation detection events and clock parameters received.
  - subset of ephemeris and clock parameters for each authorized user.
  - subset of ephemeris and clock parameters for each satellite.

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- 13.** (902) Which unit in the TRC–170 terminal contains the rubidium standard?
- Electrical synthesizer.
  - Frequency subsystem unit.
  - Tropospheric scatter modem.
  - Transmitter-amplifier converter.
- 14.** (202) What is the most important step in the troubleshooting effort?
- Analyze the system operation.
  - Isolate the defective circuit.
  - Isolate the defective state.
  - Think before you act.
- 15.** (406) Name the four *primary* nuclear environment elements.
- Thermal radiation, EMP, TREE, and weapon debris.
  - Thermal radiation, EMP, TREE, and airblast and shock.
  - Thermally generated x-rays, neutrons, gamma rays, and weapon debris.
  - Thermally generated x-rays, neutrons, gamma rays, and airblast and shock.
- 16.** (811) What part of the master control station is the focal point for mission operations?
- Data processing center.
  - Data distribution center.
  - Satellite operations center.
  - Data reduction center.
- 17.** (903) What is the *maximum* distance the TSSR's RF and baseband assemblies can be separated?
- 50 feet.
  - 100 feet.
  - 150 feet.
  - They cannot be separated.
- 18.** (204) It's important to document periodic maintenance inspections because they reveal
- that some sort of failure exists in a suspected piece of equipment.
  - that the possibility of failure exists in a suspected piece of equipment.
  - slow progressive drifts that may be too small to show up in any one test.
  - overall equipment inspections that may be too small to show up in any one test.
- 19.** (407) What are the two protection issues in today's threat situation?
- Protect against massive system software corruption and permanent system damage.
  - Protect against massive system software corruption and permanent component damage.
  - Protect against massive system signal distortion and permanent component damage.
  - Protect against massive system operation disruption and permanent system damage.

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- 20.** (605) WWV transmits timing signals from Fort Collins, Colorado, on carrier frequencies including 2.5, 5, 10, and
- a. 1 MHz.
  - b. 2 MHz.
  - c. 15 MHz.
  - d. 25 MHz.
- 21.** (909) The AFSATCOM force element terminal can operate as a
- a. slave terminal only.
  - b. master terminal only.
  - c. master and slave.
  - d. master or slave terminal.
- 22.** (206) The resistance values provided in TO resistance charts are normally measured between
- a. two indicated points.
  - b. a resistor and a capacitor.
  - c. a capacitor and an inductor.
  - d. the indicated point and ground.
- 23.** (408) Which type amplitude modulation receivers are particularly susceptible to power line noise?
- a. VLF and HF.
  - b. HF and VHF.
  - c. VHF and UHF.
  - d. UHF and EHF.
- 24.** (607) Which time code generator function is used for minor scalar synchronization and for resynchronization to correct for accumulated time base drift from UTC?
- a. Slew control.
  - b. External start.
  - c. Preset switches.
  - d. Leap second adjustment.
- 25.** (812) Which type of operational test and evaluation involves sampling a weapon from the Air Force inventory to see whether it performs “as advertised?”
- a. Developmental.
  - b. Investigative.
  - c. Post-design.
  - d. Follow-on.

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- 26.** (210) Which part of the Fluke 8025A's display section indicates the absolute value of the input?
- Digital.
  - Annunciator.
  - Range indicator.
  - Analog bar graph.
- 27.** (411) The area of the troposphere common to both transmit and receive antennas is called the
- scatter angle.
  - incident angle.
  - common volume area.
  - index of refraction.
- 28.** (609) What three basic elements make up a communications system?
- Telephone, printer, and mainframe.
  - Encoder, decoder, and transponder.
  - Device to compose a message, device to receive a message, and device to encode a message.
  - Device to send a message, medium to transmit a message, and device to receive a message.
- 29.** (814) What is *not* an example of instrumentation?
- Fuel gauge.
  - Speedometer.
  - Light switch.
  - Smoke detector.
- 30.** (910) How many DAMA networks will a single Milstar satellite support?
- 1.
  - 2.
  - 3.
  - 4.
- 31.** (413) What factor is important in determining how well energy transfers from the source to the load through a transmission line?
- Input impedance.
  - Output impedance.
  - Load impedance.
  - Characteristic impedance.
- 32.** (609) Which statement describes a unique characteristic of circuit switching?
- It has storing and forwarding capacity.
  - It has front loading and erasing capability.
  - The circuit is closed until a message is sent.
  - The circuit is kept open without a message being sent.

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- 33.** (815) Which aspect of a personal computer is *not* a factor in determining data acquisition performance?
- Bus architecture.
  - Graphics capability.
  - Microprocessor type.
  - Data transfer method.
- 34.** (913) What permits testing the circuit path to/from the receiver and transmitters without having to radiate from the antenna?
- Test translator.
  - RF dummy loads
  - Patch-panel loopback.
  - Antenna loopback switch.
- 35.** (212) Which mode of triggering an oscilloscope causes a trace to be drawn on the screen at all times, whether there is an input signal or not?
- Auto.
  - Norm.
  - External.
  - Source.
- 36.** (610) Physical topologies used in computer networks should be based on the three principles of
- reliability, manageability, and performance.
  - reliability, manageability, and expandability.
  - performance, reliability, and expandability.
  - performance, manageability, and expandability.
- 37.** (817) Which device generates an electrical signal at its output proportional to a physical phenomenon at its input?
- Commutator.
  - Transducer.
  - Digital input/output.
  - Signal conditioner.
- 38.** (916) What type of modulation technique does the Milstar terminal UHF modem use?
- Amplitude.
  - Spread spectrum.
  - Frequency shift keying.
  - Quadrature phase shift keying.

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39. (214) Which probe does *not* need to actually make contact with the circuit under test?
- Current probe.
  - Passive 1:1 probe.
  - Active (FET) probe.
  - Passive divider, 10:1 probe.
40. (419) Approximately how much beam energy does the klystron's collector absorb?
- 30 percent .
  - 40 percent.
  - 50 percent.
  - 60 percent.
41. (610) What is the biggest design setback or limitation to a computer network bus topology?
- There is no termination point.
  - The one down, all down syndrome.
  - Network traffic travels in one direction.
  - A high possibility of collisions of packets being sent.
42. (818) Which *signal conditioning* characteristic is specified for differential-input signal conditioners?
- Input fault isolation.
  - Common-mode rejection.
  - Precise calibration.
  - Normalized input.
43. (919) What agency provides the RSSC with satellite engineering parameters?
- USCINCSPACE.
  - CJCS.
  - DISA.
  - DOCC.
44. (217) What area of a digital storage oscilloscope takes digitized samples and performs numerous manipulations on the data including measuring rise and fall times, periods, time intervals, and math computations?
- Microprocessor.
  - Acquisition.
  - Memory.
  - Input.
45. (420) What is the *most* outstanding advantage of the traveling-wave tube?
- Low voltage and current requirements.
  - Low heat dissipation.
  - Very wide operating bandwidth.
  - Efficiency approaching 95 percent.

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- 46.** (819) Which telemetry equipment locks on to the frame synchronization patterns to demultiplex individual data words?
- Diversity combiner.
  - Bit synchronizer.
  - Decommutator.
  - Commutator.
- 47.** (920) Who is responsible for satellite launch support, orbit maintenance, and relocation?
- DISA.
  - DSCS.
  - Army Space Command.
  - Air Force Space Command.
- 48.** (217) Which digital storage oscilloscope (DSO) button controls all waveforms displayed in the STORE mode?
- CURSORS control.
  - MEMORY control.
  - SELECT C1/C2 switch.
  - SAVE/CONTINUE switch.
- 49.** (424) In DSBSC modulation, the intelligence is reconstructed by modulating the received signals at the exact frequency and phase relation as the
- modulating frequency.
  - lower sideband.
  - carrier frequency.
  - upper sideband.
- 50.** (611) In LAN applications, the seven layers of the ISO/OSI model are broken into what two distinct protocol stack platforms?
- Application service and structured platforms.
  - Application service and transport service platforms.
  - Implementation and structured platforms.
  - Implementation and transport service platforms.
- 51.** (923) What satellite access technique does *not* effectively use the power and frequency spectrum resources?
- Code division multiple access.
  - Time division multiple access.
  - Demand assigned multiple access.
  - Frequency division multiple access.

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- 52.** (218) What test equipment item provides a patterned digital test signal for loop testing and compares an identical pattern to determine the loop data quality?
- BERTS.
  - Spectrum analyzer.
  - RF signal generator.
  - Digital storage oscilloscope.
- 53.** (427) PSK is the most common technique used in digital equipment and
- can handle slower data rates than the other techniques.
  - has the best error performance.
  - conserves power.
  - requires less components than the other techniques.
- 54.** (611) What takes place in the network layer of the transport service platform?
- Packet receiving and sending.
  - Packet routing and forwarding.
  - Session layering and forwarding.
  - Session maintaining and terminating.
- 55.** (820) In a telemetry receiver, where is the pre-detection signal output?
- Detector circuit.
  - Video amplifier.
  - 3<sup>rd</sup> intermediate frequency mixer.
  - 2<sup>nd</sup> intermediate frequency mixer.
- 56.** (218) What pattern simulator section of the bit error rate test set converts the NRZ-L data into the desired coding, such as NRZ-M?
- Data drivers.
  - Code converter.
  - PRN generator.
  - External data comparator.
- 57.** (427) The main difference between the Q-rail and the I-rail in a QPSK modulator is the
- Q-rail is modulated and the I-rail is not.
  - I-rail is modulated and the Q-rail is not.
  - Q-rail is shifted 90° and the I-rail is in-phase with the bit stream.
  - I-rail is shifted 90° and the Q-rail is in-phase with the bit stream.
- 58.** (612) Which is considered a LAN adapter main driver?
- Network Driver Interface Specification.
  - Adapter Support Interface.
  - Open Data-link Interface.
  - All of the above.

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- 59.** (820) In a telemetry receiver, where is the serial pulse code modulation data output?
- Detector circuit.
  - Video amplifier.
  - 3<sup>rd</sup> intermediate frequency mixer.
  - 2<sup>nd</sup> intermediate frequency mixer.
- 60.** (924) What is the newest medium-sized satellite communications ground terminal designed to operate with the DSCS?
- GSC-39.
  - GSC-49.
  - GSC-52.
  - FSC-78.
- 61.** (430) What factors cause power loss that is common to both fiber-to-active-device connections and fiber-to-fiber connections?
- Fiber core mismatches and intrinsic fiber loss.
  - Fiber core mismatches and transmitted wavelengths.
  - Fiber tolerance variations and intrinsic fiber loss.
  - Fiber tolerance variations and transmitted wavelengths.
- 62.** (612) What device repackages information or changes syntax to match destination systems in network protocol hardware?
- Concentrator.
  - Gateway.
  - Router.
  - Hub.
- 63.** (822) What type of antenna does the GSC-52 terminal use?
- Cassegrain feed 38-foot.
  - Front feed 38-foot.
  - Cassegrain feed 60-foot.
  - Front feed 60-foot.
- 64.** (927) In a GMF terminal, the components on a PCB are coated with polyurethane resin to
- protect them against electrostatic discharge.
  - protect them against vibration.
  - repair cracks.
  - repair traces.

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**65.** (219) Which of these are the primary means of measuring the quality of transmitted digital information, and how is this means derived?

- a. Bit error rate (BER), the ratio of the number of bits in error to total number of bits transmitted.
- b. Bit error rate (BER), the difference between the number of bits transmitted and the total number of bits received.
- c. Distribution of errors, the ratio of the number of bits in error to total number of bits transmitted.
- d. Distribution of errors, the difference between the number of bits transmitted and the total number of bits received.

**66.** (612) Concentrator devices that provide bridging and routing functions are known as

- a. gateways.
- b. active hubs.
- c. Cisco routers.
- d. collapsed backbones.

**67.** (823) How are the *intermediate* power amplifiers normally configured in the AN/GSC-52 terminal?

- a. One operating online with a cold standby.
- b. One operating online with a hot standby.
- c. Both operating online at full power.
- d. Both operating online at reduced power.

**68.** (928) What functional equipment group in a TSC-100 terminal PSK-modulates the composite digital data stream from the MUX/DEMUX group onto a 70 MHz IF signal?

- a. Modem.
- b. Antenna.
- c. Receiver.
- d. Transmitter.

**69.** (220) What is the frequency range of an audio signal generator?

- a. 10 Hz to 10 kHz.
- b. 20 Hz to 20 kHz.
- c. 10 kHz to 10 GHz.
- d. 20 kHz to 35 MHz.

**70.** (430) What is the effect of fiber optic dispersion on a fiber's bandwidth, and what is the effect on signaling speed?

- a. Limited bandwidth; increased signaling speed.
- b. Limited bandwidth; decreased signaling speed.
- c. Increased bandwidth; increased signaling speed.
- d. Increased bandwidth; decreased signaling speed.

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- 71.** (825) The load carrying capability of a power generator set is identified by
- horse power.
  - physical size.
  - output voltage.
  - kilowatt rating.
- 72.** (932) What is the diameter of the lightweight high gain antenna?
- 8 feet.
  - 12 feet.
  - 16 feet.
  - 20 feet.
- 73.** (228) Besides the per division mode, what are the other two scan modes available through the FREQUENCY SPAN/DIV control on a spectrum analyzer?
- Manual and 0 Hz.
  - Manual and 50 Hz.
  - Maximum and 0 Hz.
  - Maximum and 50 Hz.
- 74.** (432) What are the elements of a typical optical cable?
- An outer jacket, a strength member, inner jacket, a moisture-resistant compound, and the fiber core and cladding.
  - RF shielding, a strength member, inner jacket, a moisture-resistant compound, and the fiber core and a buffering compound.
  - An outer jacket, a strength member, inner jacket, a vapor-resistant compound, and the fiber core and a buffering compound.
  - RF shielding, a strength member, inner jacket, a vapor-resistant compound, and the fiber core and cladding.
- 75.** (614) Which RS-232C signal is the data from the modem to the computer?
- Ring Indicator.
  - Carrier Detect.
  - Receive Data.
  - Transmit Data.
- 76.** (936) CCSDs are divided into what two classes?
- CONUS and overseas.
  - Primary and secondary.
  - Permanent and temporary.
  - Permanent and terrestrial.

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77. (229) Which electronic counter measurement represents the average bit-to-bit time of an input signal?
- Period.
  - Scaling.
  - Frequency.
  - Time interval.
78. (434) Two types of light sources for fiber optic modems are light emitting diodes and
- photo transistors.
  - hybrid photodiodes.
  - semiconductor laser diodes.
  - integrated photodiode/preamplifiers.
79. (615) Which standard uses a 25-pin connector and handles data rates from 20 Kbps to 2 Mbps with balanced circuits?
- RS-422.
  - RS-423.
  - RS-449.
  - RS-530.
80. (827) What control panel meter indicates the engine speed of a MEP-816A power generator?
- VOLTAGE.
  - FREQUENCY.
  - PERCENT POWER.
  - PERCENT RATED CURRENT.
81. (231) What type of deflection return on the TDR CRT would indicate a cable “short?”
- No “pip.”
  - Positive “pip.”
  - Negative “pip.”
  - Smearred “pip.”
82. (435) The capability of a photodetector to receive a weak light is dependent on the noise floor and the
- shot noise.
  - bit-error rate.
  - quantum noise.
  - signal-to-noise-ratio.
83. (616) Which general-purpose interface bus lines ensure data transfer integrity?
- Data.
  - Ground.
  - Handshake.
  - Management.

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- 84.** (828) What action is necessary when a power generator has discrepancies that cannot be quickly repaired?
- Brief oncoming shift.
  - Call power production.
  - Notify your supervisor.
  - Make an entry in the generator logbook.
- 85.** (937) What agency will the RSSC coordinate with for additional satellite resources if the planned deployment configuration *cannot* be supported by the satellite payload configuration?
- DISA.
  - GNC.
  - DISANOC.
  - CSOC.
- 86.** (437) A satellite that completes one orbit every hour appears
- 15° farther west after each orbit.
  - 15° farther east after each orbit.
  - 30° farther west after each orbit.
  - 30° farther east after each orbit.
- 87.** (617) Which is a special MIL-STD 1553 interface unit that is required for accessing bus messages and words of interest for entry into the flight test system or other off-line data processing or storage system?
- Remote terminal.
  - Bus controller.
  - Remote tester.
  - Bus monitor.
- 88.** (829) What type of transfer switch uses low-power silicon controlled rectifiers that fail if the transfer requires more than a *minimum* amount of time for completion or if the transfer is due to an overload condition?
- Static.
  - Hybrid.
  - Electronic.
  - Electromechanical.
- 89.** (940) The primary transmission medium for a deployed JTF is
- the integrated digital network exchange.
  - troposcatter/satellite support radios.
  - satellite communications.
  - troposcatter radios.

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- 90.** (211) Which Fluke 8025A multimeter function displays “OL” with the leads connected in one direction while reversing them produces a continuous audible tone?
- Diode test.
  - Power-up self-test.
  - Current measurement.
  - Resistance measurement.
- 91.** (617) Which MIL-STD 1553 coupling technique requires a separate bus coupler unit?
- Direct.
  - Mini stub.
  - Short stub.
  - Transformer.
- 92.** (831) What type of device in an air conditioner pressurizes the refrigerant gas?
- Condenser.
  - Compressor.
  - Evaporator.
  - Expansion valve.
- 93.** (929) In the anti-jam equipment, the purpose of the critical control circuit is to provide
- tactical data communications.
  - frequency and synchronization information.
  - a means for network control and command communications between the network control terminal and a nodal/non-nodal terminal.
  - a means for network control and synchronization between a nodal terminal and the non-nodal terminal.
- 94.** (222) In using the phase modulation controls of the HP 3325B function generator, an input of a  $\pm 5$  V peak would result in what approximate phase deviation?
- $\pm 42.5^\circ$  per volt for sine wave.
  - $\pm 42.5^\circ$  per volt for square wave.
  - $\pm 425^\circ$  per volt for sine wave.
  - $\pm 425^\circ$  per volt for square wave.
- 95.** (439) Automatic tracking systems are superior to programmed tracking systems because they
- use servomechanisms to control antenna movements.
  - track the apparent position of the satellite.
  - track the actual position of the satellite.
  - use updated ephemeris data.

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- 96.** (824) Each portable real-time clock provides stable frequency outputs of
- a. 1 kHz and 5 MHz.
  - b. 1 MHz and 5 kHz
  - c. 1 MHz and 5 MHz
  - d. 5 MHz and 10 MHz
- 97.** (931) When operating in the dual carrier mode, what is the *maximum* data rate throughput of the LMST?
- a. 1.544 Mbps.
  - b. 4.632 Mbps.
  - c. 7.472 Mbps.
  - d. 8.216 Mbps.
- 98.** (208) Which control on the analog multimeter calibrates the meter's pointer to zero for a resistance measurement?
- a. Zero ohms switch.
  - b. Function switch.
  - c. Voltage switch.
  - d. Range switch.
- 99.** (443) In the indicator system, the synchro transmitter converts the position of the
- a. shaft into an equivalent electrical signal.
  - b. shaft into a mechanical indication.
  - c. handwheel into an electrical signal.
  - d. handwheel into a mechanical indication.
- 100.** (619) How does non-return-to-zero-level represent the data during the bit period?
- a. Constant signal level.
  - b. Change in signal level.
  - c. Change in signal level to represent a 1 logic state.
  - d. Change in signal level to represent a 0 logic state.

**End of Pretest**

### **A Final Note to the Student**

Test analysis indicates that students normally score well on exam questions recycled (on the final course exam) from the Unit Review Exam (URE) question pool, but that they tended to score poorly on new material (unfamiliar test questions) introduced from the Self-Test Question (STQ) and CDC lesson material. This suggests that many students are relying on their UREs for test preparation which contributes to a high 1<sup>st</sup> time failure rate on the end-of-course exam. To further emphasize this, a student with a perfect score on the UREs, or the five CDC practice exams, would score just enough points to barely pass the final end-of-course exam. In other words, to help insure that you score enough points to pass your final end-of-course exam—REVIEW YOUR CDCs!

Upon completion of this exam have your Supervisor, or Trainer, score it for you. Use the lesson objective numbers (located next to the question number) to determine which material requires further review. If you need it, review your CDCs again before proceeding on to Pretest 4. After completing the practice exams you'll need to review the CDC volume STQs and any other material that you're having difficulty with before taking your final course exam. Good Luck!

MSgt Williams  
2E1X1 CDC Writer

# CDC 2E151 Ed01, Pretest 3

NOTE: FOR TRAINING PURPOSES ONLY!

End of Course  
Pretest #3  
ANSWER KEY  
as of 04-Oct-02

CDC: 2E151 Edition: 01

NOTE: An answer of '\*' indicates a deleted question.

QUES	ANS								
1.	B	26.	D	51.	A	76.	C	**	LAST ITEM **
2.	B	27.	C	52.	A	77.	A		
3.	D	28.	D	53.	B	78.	C		
4.	A	29.	C	54.	B	79.	D		
5.	A	30.	C	55.	C	80.	B		
6.	A	31.	D	56.	B	81.	C		
7.	C	32.	D	57.	C	82.	D		
8.	A	33.	B	58.	D	83.	C		
9.	D	34.	A	59.	B	84.	D		
10.	A	35.	A	60.	C	85.	A		
11.	B	36.	C	61.	A	86.	A		
12.	D	37.	B	62.	B	87.	D		
13.	C	38.	C	63.	A	88.	B		
14.	D	39.	A	64.	B	89.	C		
15.	C	40.	A	65.	A	90.	A		
16.	C	41.	B	66.	D	91.	D		
17.	C	42.	B	67.	D	92.	B		
18.	C	43.	C	68.	A	93.	C		
19.	D	44.	A	69.	B	94.	D		
20.	C	45.	C	70.	B	95.	B		
21.	A	46.	C	71.	D	96.	C		
22.	D	47.	D	72.	C	97.	C		
23.	B	48.	A	73.	C	98.	A		
24.	B	49.	C	74.	A	99.	A		
25.	D	50.	B	75.	C	100.	A		