

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

## **Student Practice Pretest 2**

**CDC 2E151  
Edition 01**

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**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) Repair and calibration of test equipment is the responsibility of the
  - a. user.
  - b. manufacturer.
  - c. test and measurement squadron.
  - d. precision measurement equipment laboratory.
  
2. (400) The goal of operational risk management is to reduce risk while
  - a. improving unit morale.
  - b. assuring decisive victory.
  - c. decreasing operational tempo.
  - d. improving every wing's safety record.
  
3. (600) Which describes what solar time is based on?
  - a. Atomic clock oscillations.
  - b. Moon rotation about the sun.
  - c. Apparent constellation movement.
  - d. Apparent motion of the sun in the sky.
  
4. (802) The purpose of the space system user segment is to
  - a. receive, process, use, or distribute mission data as required by a program's taskings.
  - b. receive, process, use, or distribute payload data and provide essential space support tasks as required by a program's taskings.
  - c. transmit, process, use, or distribute mission data as required by a program's taskings.
  - d. transmit, process, use, or distribute payload data and provide essential space support tasks as required by a program's taskings.
  
5. (900) What is the ideal frequency separation in a frequency diversity system?
  - a. 1 percent.
  - b. 2 percent.
  - c. 3 percent.
  - d. 5 percent.
  
6. (401) When performing maintenance that requires a main circuit breaker to be turned off, what should be done to prevent accidental electrocution?
  - a. Tag the circuit breaker.
  - b. Notify all work center personnel.
  - c. Annotate which breaker is turned off on the work order.
  - d. Lock the door to the circuit breaker panel room.

7. (602) What kind of oscillators are the rubidium gas cell and the cesium beam?
- Nuclear.
  - Crystal.
  - Quartz.
  - Atomic.
8. (803) Which Defense Meteorological Satellite Program elements receive only real-time satellite imagery when the satellite is in view?
- Strategic.
  - Tactical.
  - Automated Remote Tracking Stations.
  - Air Force Global Weather Central.
9. (901) On the 4/3 radius profile, the signal beam is
- a curved line.
  - a straight line.
  - between the two lines.
  - concentrated between the two lines.
10. (201) Of what should you be aware in taking voltage measurements?
- A voltmeter of low sensitivity used on a low range may render circuits inoperable.
  - A voltmeter of high sensitivity used on a low range may render circuits inoperable.
  - A voltmeter of high sensitivity used on a high range may render circuits inoperable.
  - A voltmeter of low sensitivity used on a high range may render circuits inoperable.
11. (603) Which is *not* a primary reason for distribution of precise timing signals at a test range?
- Reducing data.
  - Synchronizing range instrumentation.
  - Coordinating telephone communications.
  - Starting and stopping programmed instruments.
12. (808) What are the components of the global positioning system space segment?
- 12 II/IIA satellites.
  - 24 II/IIA satellites.
  - Master control station and 12 II/IIA satellites.
  - Master control station and 24 II/IIA satellites.
13. (902) The MD-1026 digital data modem can interface up to four groups of
- isochronous signals.
  - conditioned diphase signals.
  - balanced NRZ signals.
  - unbalanced NRZ signals.

- 14. (202)** Which component is *not* a troubleshooting aid?
- Checkout and alignment procedures.
  - System and unit programs.
  - Fault indicators.
  - Flow charts.
- 15. (402)** What is a recommended master station multi-rod ground configuration for problem soil?
- Star.
  - Circle.
  - Square.
  - Rectangle.
- 16. (810)** What method is used in the global positioning system to measure range rate?
- Active.
  - Passive.
  - Doppler shift.
  - Pseudo-random noise coding.
- 17. (904)** What system is designed to provide service interoperability, survivable command and control satellite communications well into the next century?
- Air Force Satellite Communications.
  - Defense Satellite Communications System.
  - Global Broadcast Service.
  - Milstar.
- 18. (204)** What are functional inspections?
- Visual inspections for corrosion, loose connections, or mechanical defects.
  - Visual inspections of mechanical aspects of the equipment.
  - Inspections done through frequent bench checks.
  - Inspections done through periodic tests.
- 19. (403)** What is the purpose of grounding and bonding connections?
- Bonding protects personnel and grounding prevents static and RF voltage buildup.
  - Grounding protects personnel and bonding prevents static and RF voltage buildup.
  - Grounding and bonding connections protect equipment from power supply transients.
  - Grounding and bonding connections protect personnel from power supply transients.
- 20. (605)** To which organization's atomic clock is a WWV/WWVH receiver's timing signal traceable?
- United States Naval Observatory.
  - International Bureau of Weights and Measures.
  - National Institute of Standards and Technology.
  - National Oceanic and Atmospheric Administration.

- 21. (905)** Which Milstar mission element allocates communication resources?
- Control.
  - Development.
  - Planning.
  - Support.
- 22. (207)** Regardless of the size of the circuit you are troubleshooting, you can immediately isolate the defective half of a unit by which troubleshooting technique?
- Half-split method.
  - Diagnostic tests.
  - Marginal checking.
  - Group removal and replacement.
- 23. (404)** What component would be susceptible to damage from electrostatic discharge?
- Transformer.
  - Carbon resistor.
  - Liquid crystal display.
  - Computer processor chip.
- 24. (606)** To which organization's atomic clock is a GPS receiver's 1 PPS timing signal traceable?
- United States Naval Observatory.
  - International Bureau of Weights and Measures.
  - National Institute of Standards and Technology.
  - National Oceanic and Atmospheric Administration.
- 25. (811)** How many global positioning system satellites can the monitor station monitor?
- 10.
  - 12.
  - 14.
  - 16.
- 26. (209)** When you make a resistance measurement, how do you electrically isolate a resistor from the circuit?
- Remove power from the circuit.
  - Short both sides of the resistor.
  - Insulate both sides of the resistor.
  - Disconnect one side of the resistor.
- 27. (405)** A personnel wrist strap must have a series resistance of less than
- 250 k $\Omega$ .
  - 350 k $\Omega$ .
  - 450 k $\Omega$ .
  - 550 k $\Omega$ .

- 28.** (609) A citizens band radio is an example of what kind of transmission channel?
- Simplex.
  - Complex.
  - Half-duplex.
  - Full-duplex.
- 29.** (813) Which test range capability uses command destruct?
- Safety.
  - Security.
  - Flight tracking.
  - Frequency management.
- 30.** (907) The AFSATCOM transponders on the FLTSAT provide the Air Force with
- one narrowband and 12 wideband channels.
  - 12 narrowband and one wideband channels.
  - two narrowband and six wideband channels.
  - six narrowband and two wideband channels.
- 31.** (406) Besides high-altitude electromagnetic pulse (HEMP), what other EMP forms are produced by a derived nuclear environment?
- System-generated and source region.
  - Thermal radiation and source region.
  - System-generated and atmospheric disturbances.
  - Thermal radiation and atmospheric disturbances.
- 32.** (610) Which of these features describes a LAN?
- Supportive connectivity architecture.
  - Limited by mode of transmission.
  - High-speed data transfer.
  - All of the above.
- 33.** (814) Which is *not* a process directly performed by computer-based data acquisition and control systems?
- Transmitting radio frequency carriers.
  - Controlling instruments.
  - Analyzing data.
  - Gathering data.
- 34.** (908) The Milstar satellite sends downlink communications transmissions at
- UHF only.
  - EHF only.
  - UHF and SHF.
  - UHF and EHF.

- 35.** (210) Which feature of the Fluke 8025A multimeter do you use to select various measurement functions?
- Circuit jacks.
  - Rotary switch.
  - Range push button.
  - Touch-hold button.
- 36.** (610) The Attached Resource Computing Network system offers the *most* flexibility with which topologies?
- Token and bus.
  - Ring and star.
  - Ring and bus.
  - Star and bus.
- 37.** (816) Measuring physical phenomena from a distance and transferring the measurement to a point where recording and analysis can take place is called
- instrumentation.
  - communications.
  - autoprocessing.
  - telemetry.
- 38.** (910) What satellite network does the Milstar DAMA replace?
- AFSAT I narrowband.
  - AFSATCOM wideband.
  - Global positioning system.
  - Defense Satellite Communications System.
- 39.** (213) Which control should you adjust if the display is too tall (extends off screen)?
- Volts/cm.
  - Time/cm.
  - Triggering.
  - Input coupling.
- 40.** (409) When should you file a report once you have confirmed an electromagnetic interference problem exists?
- 12 hours.
  - 24 hours.
  - 48 hours.
  - 72 hours.
- 41.** (818) In a telemetry system, excitation is defined as
- sensing physical phenomena.
  - amplifying low-level signals.
  - attenuating high-level signals.
  - supplying energy to transducers.

- 42.** (911) The Milstar waveform derives its anti-jam capabilities by using a
- large bandwidth.
  - narrow bandwidth.
  - large antenna beamwidth.
  - large amount of output power.
- 43.** (216) In using an oscilloscope to compare two signals, if the Lissajous pattern has 3 bumps on one axis and 4 on the other,
- you should readjust the volts/div until you get a “bow tie” pattern.
  - the signals are 90° out of phase with each other.
  - the signals are in phase with each other.
  - the signals have different frequencies.
- 44.** (412) The slow fading caused by the rotation of the plane of polarization of radio waves as they pass through the ionosphere is
- refraction.
  - diffraction.
  - Doppler effect.
  - Faraday effect.
- 45.** (611) What is the function of the transport service platform in a LAN application?
- To allow packet forming and presenting.
  - To provide an error-free path for travel of data.
  - To initiate, maintain, and terminate each logical session.
  - To instruct open systems environments to communicate.
- 46.** (915) What Milstar antenna group unit converts digital pointing data into control voltage outputs?
- Computer pointing.
  - Pedestal stabilization.
  - Antenna position control.
  - Terminal access controller.
- 47.** (217) Sampled data points are stored in the memory of a digital storage oscilloscope as
- sequential records.
  - waveform points.
  - record lengths.
  - record points.
- 48.** (414) Waveguides are capable of handling more power than coaxial because the waveguide
- does not use dielectric support.
  - has an arc-over path twice as long.
  - has an inner silver coating.
  - has less resistance than the coaxial line.

**49.** (612) A network interface card takes advantage of a personal computer's internal bus to allow

- a. multiple application usage.
- b. easier and faster networking.
- c. termination of external processing.
- d. users to take advantage of higher memory processing.

**50.** (820) Which transmitting antenna arrangement will *best* assure continuous line-of-sight transmission and reception when an aircraft under test performs rolling maneuvers?

- a. One antenna, mounted on top.
- b. One antenna, mounted on bottom.
- c. Two antennas, mounted on either side.
- d. Two antennas, mounted on top and bottom.

**51.** (218) Which pattern simulator section of a bit error rate test set controls the clock selector and selects either the external clock or the internal clock for processing?

- a. Clock drivers.
- b. Code converter.
- c. Data/sync selector.
- d. Data/clock select encoder.

**52.** (416) Aircraft antennas are housed

- a. inside non-conductive radomes mounted outside or flush with the fuselage.
- b. inside conductive radomes mounted outside or flush with the fuselage.
- c. outside non-conductive radomes mounted outside the fuselage.
- d. inside conductive radomes mounted flush with the fuselage.

**53.** (612) Routers that are used in network hardware operate in which layer of the OSI model protocol?

- a. Application.
- b. Network.
- c. Presentation.
- d. Session.

**54.** (821) Which recorder uses an analog marking device to present data on continuously advancing paper?

- a. Magnetic tape.
- b. Strip chart.
- c. Tabular.
- d. X-Y.

**55.** (917) What device provides communications and transmission security for all Milstar terminal operations?

- a. KG-84.
- b. KI-36.
- c. KGV-9.
- d. KGV-11A.

**56.** (417) In klystrons, what is done to electrons so that they can be accelerated or decelerated to the desired velocity?

- a. Bunched together.
- b. Split into separate paths.
- c. Formed into a steady beam.
- d. Operated in the negative resistance region.

**57.** (612) What device provides a central connection point for terminals, computers, or communications devices?

- a. Hub.
- b. Gateway.
- c. Cisco router.
- d. Concentrator.

**58.** (822) What information is used for satellite tracking on a GSC-52 earth terminal operating in the memory track mode?

- a. Beacon signal.
- b. Recorded data.
- c. Ephemorous data.
- d. Communications signal.

**59.** (918) Which Milstar configuration requires the 400 Hz converter?

- a. EHF ground terminal.
- b. EHF airborne terminal.
- c. EHF/UHF ground terminal.
- d. EHF/UHF airborne terminal.

**60.** (219) On the bit error rate test set, the 25-pin connectors are designed to operate with data modems to

- a. simplify connection of test equipment to the modem under test and to transmit the test pattern.
- b. simplify connection of test equipment to the modem under test and to carry the necessary signaling and handshake signals for modem operations.
- c. isolate test equipment from the data circuit under test and to transmit the test pattern.
- d. isolate test equipment from the data circuit under test and to carry the necessary signaling and handshake signals for modem operations.

- 61.** (614) Which RS–232C signal indicates the modem is ready to transfer data?
- a. Clear to Send.
  - b. Data Set Ready.
  - c. Request to Send.
  - d. Data Terminal Ready.
- 62.** (823) The An/GSC–52 input/output interface provides connections for how many type of user inputs?
- a. Fifteen 70/700 MHz intermediate frequency only.
  - b. Eighteen 70/700 MHz intermediate frequency only.
  - c. Fifteen 70/700 MHz intermediate frequency and three 7.9 to 8.4 GHz.
  - d. Eighteen 70/700 MHz intermediate frequency and three 7.9 to 8.4 GHz.
- 63.** (919) What agency ensures that all satellite links perform according to baseline parameters?
- a. Unified and specified CINCs.
  - b. DSCSOCs.
  - c. AFSPACECOM.
  - d. USARSPACE.
- 64.** (221) A radio frequency generator is used to
- a. monitor odd harmonics.
  - b. align telemetry receivers.
  - c. modulate subcarrier oscillators.
  - d. check galvanometer frequency response.
- 65.** (418) With an increase in electron velocity, additional cavities in klystrons will
- a. determine the amount of electrons leaving the cathode.
  - b. attenuate the signal.
  - c. control bunching.
  - d. have no effect.
- 66.** (823) What is the total approximate gain of the AN/GSC–52 low noise amplifier and interfacility link amplifier?
- a. 34 dB.
  - b. 41 dB.
  - c. 75 dB.
  - d. 109 dB.
- 67.** (922) All DSCS III satellite transponder channels translate the uplink frequency by 725 MHz with one exception; what is it?
- a. Channel 1, 200 MHz.
  - b. Channel 6, 200 MHz.
  - c. Channel 1, 300 MHz.
  - d. Channel 6, 300 MHz.

- 68.** (224) The measurable frequency and power ranges of the HP 436A power meter are determined by the
- digital display.
  - power sensor.
  - power meter.
  - interface.
- 69.** (423) What factor determines the spacing of the sidebands in an amplitude modulated signal?
- Amplitude of the modulating signal.
  - Amplitude of the carrier signal.
  - Frequency of the modulating signal.
  - Frequency of the carrier signal.
- 70.** (615) Which standard is designated for single-ended transmission?
- RS-422.
  - RS-423.
  - RS-449.
  - RS-530.
- 71.** (925) The overall goal of the fixed terminal modernization program is to
- reduce cost.
  - reduce manpower.
  - replace old terminals.
  - recycle usable equipment.
- 72.** (225) When you connect a new or different power sensor to the HP 436A power meter, you should
- immediately calibrate the units together.
  - calibrate the power meter separately before use.
  - calibrate the power sensor separately before use.
  - observe a 30 day break-in period before calibrating the units together.
- 73.** (425) What is the principal advantage of SSBSC?
- All the transmitter power can be used for the carrier.
  - Half the transmitter power can be used for the carrier.
  - All the transmitter power can be used for the intelligence.
  - Half the transmitter power can be used for the intelligence.
- 74.** (616) Why does the general-purpose interface bus controller use serial polling? Which universal command initiates the poll?
- To check the status of all devices on the bus; Service Request.
  - To check the status of all devices on the bus; Serial Poll Enable.
  - To determine which device has requested service; Service Request.
  - To determine which device has requested service; Serial Poll Enable.

- 75.** (824) In the GSC–52 control, monitor, and alarm system, what piece of equipment routes commands to the various subsystem controllers?
- Station console.
  - Terminal Processor.
  - Remote control console
  - External control element.
- 76.** (226) You are using an HP 436A power meter to troubleshoot a transmitter. You are trying to determine which stage is causing a low power output from the transmitter. To find out how well each transmitter stage is amplifying, which power meter mode should you select?
- Peak power.
  - Average power.
  - Absolute power.
  - Relative power.
- 77.** (426) A 10 kHz modulating signal has enough peak voltage to cause a deviation of 30 kHz. What is the modulation index?
- 5.
  - 0.5.
  - 0.3.
  - 3.
- 78.** (617) Which kind of message is used for management of the MIL-STD 1553 data bus?
- Remote terminal to remote terminal.
  - Remote terminal to bus controller.
  - Bus controller to remote terminal.
  - Mode command.
- 79.** (825) What safety items are required when servicing power generator batteries?
- Goggles, face mask, and rubber apron.
  - Rubber apron, rubber gloves, and goggles.
  - Goggles, leather gloves, and rubber apron.
  - Rubber apron, face mask, and leather gloves.
- 80.** (929) In a TSC–100 terminal, the voltage-level converters
- convert balanced NRZ to unbalanced NRZ.
  - multiplex user inputs into an unbalanced NRZ composite data stream.
  - convert unbalanced NRZ to balanced NRZ.
  - multiplex user inputs into a balanced NRZ composite data stream.

- 81.** (429) What determines the refractive index of light; what is the ratio?
- Light angle, the speed of light to its speed in a medium.
  - Light angle, the frequency of light to its spectrum range.
  - Material density, the speed of light to its speed in a medium.
  - Material density, the frequency of light to its spectrum range.
- 82.** (619) What are the two main synchronous protocols classified by the frame synchronization technique that are used?
- Byte control and bit oriented.
  - Byte control and flow control.
  - Sequence control and bit oriented.
  - Sequence control and flow control.
- 83.** (826) Condensation forms within power generator fuel system components because of the change in
- ambient temperature from cold to hot.
  - ambient temperature from hot to cold.
  - the internal temperature of the fuel from cold to hot.
  - the internal temperature of the fuel from hot to cold.
- 84.** (931) The HPA uses a tri-band traveling wave tube amplifier capable of producing
- 100 watts.
  - 200 watts.
  - 400 watts.
  - 800 watts.
- 85.** (228) On a spectrum analyzer, you select LIN (linear) VERTICAL DISPLAY mode. The VERTICAL DISPLAY reads "5.00/ mV," and there is a signal peak six divisions above the CRT bottom line. What will the amplitude readout display?
- 5 mV.
  - 12 mV.
  - 25 mV.
  - 30 mV.
- 86.** (621) Which are typical bit synchronizer functions?
- Carrier restoration and phase-locked loop.
  - Baseline restoration and phase-locked loop.
  - Carrier restoration and frequency decoding.
  - Baseline restoration and frequency decoding.

**87.** (827) What should you do when a fault light illuminates on a MEP-816A power generator's fault control panel?

- This is normal, all lights go out within 30 seconds.
- Operate the PUSH TEST RESET LAMPS push-button and continue to operation.
- Stop the generator immediately and refer the problem to a qualified power production individual.
- Stop the generator immediately, operate the PUSH TEST RESET LAMPS push-button and repeat the start procedures.

**88.** (933) Which vehicle is considered a prime overland mover?

- 5-ton truck.
- $\frac{3}{4}$ -ton pickup truck.
- Semi-tractor trailer.
- High mobility multipurpose wheeled vehicle.

**89.** (230) When the display section of a frequency counter receives the first 10 pulses passed from the signal gate, what is sent from the first decimal counting unit to the second decimal counting unit?

- A set signal.
- A reset pulse.
- A carry pulse.
- A relay latch signal.

**90.** (431) Which classification of fiber optic cable has the *highest* rate of dispersion throughout its length?

- Single-mode step-index.
- Single-mode graded-index.
- Multimode step-index.
- Multimode graded-index.

**91.** (829) What is *not* used as a bypass source for a uninterruptible power supply?

- Another inverter.
- Another rectifier.
- Commercial AC power.
- An auxiliary power generation source.

**92.** (937) What is the RSSC?

- A network control center for links ending in the center's area of responsibility.
- A network operations center for links ending in the center's area of responsibility.
- A planning cell that supports the unified and specified commands with GMF access on the DSCS.
- A planning cell that supports the area communications operations center with GMF access on the DSCS.

- 93.** (231) Which push-button(s) would you select to get  $125\Omega$  impedance on the time domain reflectometer?
- None.
  - $75\Omega$  only.
  - $125\Omega$  only.
  - $50\Omega$  and  $75\Omega$
- 94.** (433) What component taps optical energy from a main transmission line for multiple point-to-point signal transfer?
- Step-index fiber.
  - Refractive lens.
  - Ribbon cable.
  - Coupler.
- 95.** (622) The HDLC flag field identifies the
- end of the data.
  - beginning of the data.
  - end of the transmitted frame only.
  - start and end of each transmitted frame.
- 96.** (939) What system will be replaced by the Defense Message System?
- Automatic Digital Network.
  - Defense Switched Network.
  - SECRET Internet Protocol Router Network.
  - Joint Worldwide Intelligence Communications System.
- 97.** (232) Which mode is first used to analyze the fiber after fiber insertion?
- SCAN mode.
  - RECORD mode.
  - AVERAGE mode.
  - REAL-TIME mode.
- 98.** (441) The control transformer is used to convert a mechanical and electrical input into
- drive power for an antenna.
  - a mechanical output for an antenna.
  - an electrical output for an amplifier.
  - an error signal representing the amplifier's status.
- 99.** (625) How does the magnetic tape retain the signal?
- As a bias signal.
  - As an analog signal.
  - As residual magnetism.
  - As a primary transformer winding.

- 100.** (832) The bare-base air conditioner operates on
- a. 110/120 AC; single-phase power.
  - b. 110/120 AC; three-phase power.
  - c. 208/220 AC; single-phase power.
  - d. 208/220 AC; three-phase power.

**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 3. 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 2

NOTE: FOR TRAINING PURPOSES ONLY!

End of Course  
Pretest #2  
ANSWER KEY  
as of 27-Jul-01

CDC: 2E151 Edition: 01

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

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