ARECC Em-Comm LEVEL I STUDY GUIDE

1-1 Whe	en does a communication emergency exist?	
A. C	Whenever the public is at risk.	
В. 🗖	When there is an earthquake in your area and the public is inconvenienced.	
C.	When a critical communication system fails and the public is inconvenienced.	
D. 🖸	When a critical communication system fails and the public is put at risk.	
	ch of the following is it most important for an emcomm group to do at the end of gency communication operation?	
A. ©	Review the effectiveness of its response.	
В.	Take photos of the activity.	
C.	Call the local newspaper to schedule interviews.	
D. 🗀	Review the activities of the first responders.	
1-3 Wh	ich of the following is NOT a responsibility of emergency communicators?	
A. C	Making demands on the agency being served.	
В. 🗖	Having radios, frequencies and basic radio skills.	
C.	Being licensed and preauthorized for national and international communications.	
D.	Possessing emergency communication skills.	
1-4 Which of the following describes the function of a Rapid Response Team (RRT)?		
A.	To handle large-scale emergencies over an extended period.	
В. 🖸	To deploy a quick response in a very short time.	
C.	To establish and operate a storm watch prior to any emergency.	
D. 🗖	To review the effectiveness of an emergency communication group.	
	n emergency situation when a served agency asks you to forward an urgent e which one of the following methods would you NOT employ?	
A. C	CB radio	
В. 🗖	Family radio	

C. C	Informal, conversational grapevine
D. 🗖	The served agency's own radio system.
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2-1. Which	ch of the following best describes your main job as an emergency cator?
A. C	Dispatcher, organizing the flow of vehicles, personnel, and supplies.
В.	Weather spotter.
C. 🖸	Radio operator, using Amateur or served agency radio systems.
D. 🗖	Resource coordinator, organizing the assignments of disaster relief volunteers.
	cator? You are strictly limited to communication tasks.
В.	You may be asked to serve any function that includes communication.
C	You do anything a served agency asks.
D. 🗖	You transmit and receive messages.
•	are asked by a served agency to perform a task that falls outside FCC rules, the following is a proper response?
	Document the request, and then do what is asked.
	Document the request, but refuse to do it.
	Leave immediately.
D. E solution.	Discuss the situation with the served agency, and develop an alternative

2-4 In an emergency situation, which of the following is the most appropriate response that you as an emcomm group member can make to an inquiry from the press?

A. 🚨	Answer any question that you are asked.
В.	Volunteer information and make yourself helpful to them.
С. 🖸	Refer all inquiries to the served agency's public information officer (PIO).
D. 🖸	Ignore them and hope they will go away.
2-5 Which	ch of the following will most affect your relationship with a served agency?
A. 🗖	Your radio and electronic equipment.
В. 🔲	Your knowledge of FCC regulations.
С. 🖸	Your attitude.
D. 🗖	Your radio skills.
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3-1 Wha	at mode should be used to send a list of casualties?
A. 🗖	VHF repeater system.
В. 🏻	A secure mode.
C. 🔽	Packet radio.
D. 🗖	An HF net.
3-2 Wha	t types of messages are good to send by fax?
A. 🗖	High precision, lengthy and complex messages.
В. 🗀	Simple low-precision, and short messages.
C. 🗖	Messages to many destinations simultaneously.
D. C	High detail color photographs.
3-3 Wha	t types of messages should be handled by a packet bulletin board system?
A. C	Time sensitive messages of immediate priority.
В. 🗀	Low precision messages.
C. Creceiver	Non-time-critical messages and reference material, when the sender and cannot be available simultaneously.
D.	Messages to be "broadcast" to numerous stations.

3-4 Wh systems	nat is the pitfall that is common to telephone, cellular phone and trunked radio?
A. C	They do not take advantage of the benefits of Amateur Radio.
В.	They are all difficult to use.
C.	They are seldom available at shelters and public safety agencies.
D. C subject	They all require the use of a complex central switching system that is to failure in a disaster situation.
3-5 Whi	ich of the following is an example of an efficient communication?
A. net.	A ham communicating a lengthy list of needed medical supplies over a voice
	A lengthy exchange between two stations on a primary voice net channel being by a large number of users.
	Typing out a digital message that "the delivery van containing the coffee has at this location" on a high-precision packet link.
D. 🔽	Sending a shelter list on the office fax machine.
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4-1. Wh	nich of the following best describes the ARES organizational structure?
A. 🗀	ARRL -District-Section-County
В. 🗀	ARRL-Section-District-County
C	ARRL -County-Region-Section
D. C	ARRL -State - Region-Section
4-2. Wh	nich of the following best describes the ARES chain of command within a
A. Assistar	Section Manager-District Emergency Coordinator-Emergency Coordinator, nt Emergency Coordinator -Section Emergency Coordinator.
В. 🗀	Section Emergency Coordinator- Section Manager-District Emergency

Coordina	ator-Emergency Coordinator-Assistant Emergency Coordinator.
Coordin	Section Manager-Section Emergency Coordinator-District Emergency ator-Emergency Coordinator-Assistant Emergency Coordinator.
D. District	Section Manager-Section Emergency Coordinator-Emergency Coordinator Emergency Coordinator-Assistant Emergency Coordinator.
4-3 Whi	ch of the following best describes a Level 2 RRT?
A. C	Is a first responder in any emergency.
B. Cemergen	Operates a few strategically placed stations within the first hour of an cy.
C. C jump ki	Responds within a few hours and is prepared with longer term (72 hour) ts.
D. C	Is always affiliated with SATERN.
4-4 Whie	ch of the following best describes an ARES Mutual Assistance Team (AAT)?
A. 🗖	Is generally available for tasks lasting less than one day.
В.	Is always from the local area.
C.	An ARES team who are willing and able to travel to another area.
D. C	Is called out only when the President suspends regular Amateur operations.
4-5 Whi	ch of the following is true about REACT?
A. 🗖	REACT is a part of ARRL.
В. 🗖	REACT does not have an MOU with ARRL.
C. 🔽	REACT's mission is more restricted than that of ARRL.
D. 🗖	$REACT's\ resources\ include\ CB,\ Amateur\ Radio,\ GMRS,\ FRS,\ and\ MURS.$
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When emcomm team members are called upon to operate on Public Safety Radio

Systems	s, which of the following may they NOT do?
A. C	Use special "10 codes".
В. 🗖	Use the served agency's standard operating procedure.
C.	Use the phonetic alphabet employed by the served agency.
D. C	Engage in casual conversations.
	ich of the following is another trademarked version of Continuous Tone Coded a System (CTCSS)?
A. C	Private Guard.
В. 🗀	Private Channel.
C.	Line Guard.
D. 🔼	Private Line.
5-3 Wh	ich of the following best describes the newer Emergency Medical Radio Services
A. C	Ten UHF duplex frequencies and seven VHF simplex channels.
В. 🏻	Ten simplex VHF frequencies with pulsed tone encoders for each hospital.
C.	Seven UHF duplex frequencies and ten VHF simplex channels.
D.	The MedStar system with channels Med 1 through Med 10.
5 1 W/L	ish and of the following etatements is two shout two had evetors?
3-4 Wn	ich one of the following statements is true about trunked systems?
A. 🗀	Trunked systems are able to operate without the use of computer controllers.
В. 🏻	The number of frequencies on a trunked system is always a multiple of 10.
C.	Amateur radio does not currently use this type of system.
D. 🗀	Most trunked systems have ample reserve capacity
	en emcomm teams work with a served agency, a number of assumptions are Which of the following assumptions are true?

A. C		
A. 🖰 encounte	Amateur radio operators can operate any communication equipment they	
B. C procedu	There are NO significant differences between amateur radio operating res and the procedures used by the served agencies.	
C. 🔽	Served agencies must provide training if amateur operators are to be used	
effective		
D. C	All phonetic alphabets are essentially the same and are thus interchangeable.	
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6-1 In ei	mergency communication, which one of the following is NOT true?	
A. 🗖	Listening is only about 10% of communication.	
В. 🖸	Any message can have huge and unintended consequences.	
C.	A message that is never delivered can yield disastrous results.	
D. 🗖	Listening also means avoiding unnecessary communications.	
6-2 Which of the following procedures is best for using a microphone?		
А. 🗖	Hold the microphone just off the tip of your nose.	
В. 🗀	Talk across, rather than into, your microphone.	
C.	Shout into the microphone to insure that you are heard at the receiving end.	
D. 🗖	Whenever possible, use voice operated transmission (VOX).	
6-3 In emergency communications, which of the following is true?		
A. C	Never use "10 codes" on Amateur Radio.	
В. 🖸	Use "Q signals" on served-agency radio systems.	
C.	Under NO circumstances use "Q" signals on a CW net.	
D. 🗖	Use technical jargon when you feel that it is appropriate.	
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6-4 Which of the following is always true of a tactical net?

A.	Personal call signs are never used.
B. C	Personal call signs are always preferred over tactical call signs (such as "Aid
3").	
C. at the en	Personal call signs are required at ten-minute intervals during a conversation <u>or</u> d of your last transmission.
D. 🗖	Personal call signs are required at ten-minute intervals during a
convers	ation <u>and</u> at the end of your last transmission.
6-5 Whi	ch of the following is the most efficient way to end an exchange on a tactical net?
A. C	Say "Over".
В.	Say "Roger".
C. C	Give your FCC call sign.
D. 🗖	Ask Net Control if there are any further messages for you.
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7-1 Whi	ch of the following best describes a net?
A. C	A group of stations who purposely frequent the airwaves.
В. 🗖	A group of stations who gather on one frequency with a purpose.
C.	A group of stations who occasionally meet on various frequencies.
D.	A group of stations who propose to meet at a particular time.
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7-2 Wha	at is a major difference between an "open net" and a "directed net"?
A. 🗖	The presence or absence of full control by a Net Control Station.
В. 🗖	The presence or absence of formal traffic.
C.	The type of radio traffic on the net.
D.	The approval or sanction of net operations by the FCC.
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7-3 Which of the following is true of a "tactical net"?

A. 🗀	The net is used to acquire volunteers and to handle assignments.
В. 🗖	The net is used for the coordination of activities associated with future
emerger	ncies.
C. C.	The net may be directed or open, but will usually have a Net Control
Station.	
D. C	The net handles only formal traffic.
7-4 Wh	en should you check in to an emergency net?
A. 🗖	When you want to comment on something that someone else has said.
В. 🗀	When you are tired of listening.
C. Crelevan	When you first join the net and when you have messages, questions or tinformation.
D. the parti	When you first join the net and when you would like to send greetings to one of cipating stations.
7-5 Wha	at should you do if someone in authority asks you to move your station?
A. C possible	Do so immediately without argument and report to the NCS as soon as
В. 🗖	Call the NCS for advice before moving.
C.	Tell the person in authority how difficult it is for you to comply.
D. 🗖	Demand a written order before complying.
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	preamble to an ARRL Radiogram message contains a block called "Precedence" of the following represents the correct precedence for an EMERGENCY 2?
A. C	"URGENT".
В. 🗖	"U".
C.	"EMERGENCY".
D. 🗖	"E".

	e preamble to an ARRL Radiogram message contains a block called "Handling tions." What is the meaning of the handling instruction "HXE"?
A. 🗖	Delivering station to get and send reply from addressee.
В. 🗖	Report date and time of delivery to originating station.
C.	Cancel message if not delivered within (X) hours of filing time.
D. C	Collect telephone delivery authorized.
	RL Radiogram messages contains a block called "Time Filed". Which of the ng is true of entries in that block?
A. 🗖	This field is always completed.
В. 🗖	Time entries are always Universal Coordinated Time.
C.	During emergencies "local time" is used.
D. 🗖	During emergencies "local time" along with the local date is used.
	RL Radiogram messages contains a block called "The Check." Which of the ng is true of entries in that block?
A. 🗖	The check contains a count of the words in the entire message.
B. messag	The check contains a count of the words in the preamble and the text of the e.
C. messag	The check contains a count of the words in the preamble, address and text of the e.
D. C	The check contains a count of the words in the text of the message.
8-5 Wh Radiog	ich of the following statements is true of punctuation within an ARRL ram?
A. 🗖	Punctuation is always helpful; it should be used whenever possible.
В. 🗖	Punctuation is rarely helpful; it should never be used.
C.	Punctuation should be used only when it is essential to the meaning of the
messag	ge.
D. 🗖	The comma and apostrophe are the most common punctuation signs used in

NTS messages.			

asked to	9-1 As part of an EMCOMM group handling message traffic in an emergency, you are asked to forward a message that contains typographical errors. Which of the following is your best course of action?		
A. C	Delay sending the message.		
В.	Forward the message exactly as received.		
C.	Return the message to the originating station.		
D. C	On your own, correct the error in the message and forward it.		
9-2 As part of an EMCOMM net handling message traffic in an emergency, you are asked to forward a message in a non-standard format. Which of the following is your best course of action?			
A. 🗖	Delay sending the message until you have conferred with the originator.		
B. C	Return the message to the originator.		
C.	On your own, rewrite the message in proper format and forward it.		
D. C	Forward the message exactly as received.		
9-3 You have been asked to send an ARRL Radiogram dealing with birthday greetings. Which of the following is the correct format for the message?			
A. C	"ARRL 46"		
В.	"ARL 46"		
C.	"ARL FORTY SIX"		
D. C	"ARRL FORTY SIX"		
9-4 When delivering an ARRL numbered radiogram, which should be done?			
A. 🗖	Deliver the message exactly as received.		
В.	Deliver the message exactly as received but add your own written explanation.		

C. 🔽	Decode the message into plain language before delivery.
D. 🗖	Deliver the message exactly as received but add your own verbal explanation.
	ring an <u>emergency</u> , service messages should only be sent for which of the ng categories of message?
A. 🗖	Emergency, Priority, Welfare and Routine
В. 🏻	Emergency, Priority and Welfare
C.	Priority and Welfare
	Emergency and Priority ***********************************
	Thich of the following best describes the responsibilities of the NCS in an moperation?
A. 🗖	The NCS is responsible for all aspects of the emcomm operation.
В. 🏻	The NCS is responsible for station check in.
C. 🔽	The NCS is responsible for all aspects of the net's operation.
D. 🗖	The NCS is responsible for writing the net script.
10-2 As	an acting "fill in" NCS, which of the following practices would you avoid?
A. 🗖	Try to run an existing net much as the previous NCS did.
В. 🏻	Handle messages in order of precedence: Emergency-Priority-Welfare.
C. 🗖	Keep notes as you go along: do not let your log fall behind.
D. C	Ask stations to pass messages on the main net frequency whenever possible.
10-3 W	hich of the following is true of a liaison station?
A. C stations	The liaison station mainly relays bulletins authorized by the served agency to all on the net.
В. 🏻	A liaison station passes messages only on a pre-set schedule.
C. 🗖	A liaison station handles only one-way traffic.
D. 🔼	A liaison station passes messages between two nets.

10-4 Packet modes include which of the following groups?		
A. C B. C C. C D. C	FM packet, HF packet and PACTOR. HF packet, PACTOR and PSK31. PACTOR, PSK31 and RTTY. PSK31, RTTY and PACTOR.	
10-5 You are the NCS of a net involved in an emcomm operation and you notice that some other station is intentionally interfering with your net. Which of the following represents your best course of action?		
A. 🗀	Shut down the net and go home.	
B. ways.	Address the interfering station directly and inform them of the error of their	
C.	Move the net to an alternate frequency.	
D. C	Contact the EOC and continue to operate.	

11-1 W	hat do the letters "ICS" stand for?	
A. C	International Correspondence School	
В.	Incident Command System	
C	Institutional Control System	
D. 🗖	Internal Control Sequence	
11-2 What is ICS?		
A. C within	A management tool for coordinating the resources of several agencies a single command structure.	
В. 🗖	fixed and unchangeable system for managing an incident.	
C. C. departm	A means of subverting the normal command structure within an agency or nent.	
\mathbf{D}^{T}	A management system restricted to use by government agencies and	

departments.

11-3 The ICS has two interrelated parts. What are they?		
A. C	A mission statement and management objectives.	
В.	Management by objectives and organizational structure.	
C.	Organizational structure and a financial plan.	
D. C	A financial plan and an operational plan.	
11-4 Aside from the Incident Commander, there are four other major operating sections within an ICS. What are they?		
A. C	Planning, Operations, Logistics and Public Relations	
В. 🏻	Personnel, Planning, Operations and Finance/Administration	
C.	Planning, Operations, Logistics, and Finance/Administration	
D. C	Payroll, Finance/Administration, Logistics and Operations	
11-5 What is an emcomm group's relationship to the ICS structure during an incident?		
A. C	The emcomm group always serves within the Logistics area.	
В.	The emcomm group may or may not be a formal part of the ICS structure.	
C.	The emcomm group always serves the Task Force leader directly.	
D. C	The emcomm group always serves the Incident Commander directly.	

12-1 Of the following, which is the best reason for preparing a jump kit in advance?		
A. C	You will not leave something important at home or waste valuable time.	
B. arises.	You are spared the added expense of shopping for something after an emergency	
C.	You can be fully rested on the day of the emergency.	
c. — D. C	· · · · · · · · · · · · · · · · · · ·	
υ. 	You can test the batteries on your hand held VHF before leaving home.	

12-2 Wl deployn	hich of the following would you omit from a jump kit prepared for a 12-hour nent?	
A. C	Hand held VHF or dual band radio.	
В.	Spare rechargeable batteries for the hand held radio.	
C.	High energy snacks.	
D. 🔽	Camp cot and tent.	
	nong the following, which are the most important items of information to include jump kit?	
A. C	ID cards and other authorizations.	
В.	Field cookbook.	
C	Automobile repair manual.	
D. 🗖	Instruction book for your chain saw.	
	nong the following, which is the least important item of personal gear to include jump kit?	
A. C	Frequency lists and net schedules.	
B. C	Contact information for other members of your group, EC, DEC & SEC.	
C.	Key phone numbers, email and Internet addresses.	
D. C	A deck of playing cards.	
12-5 If you are assigned in advance to a particular location for emcomm operations, what is the least important thing to know in advance?		
A. C	The escape routes from the facility itself.	
В.	The regular business hours maintained at the facility.	
C	The availability of radio equipment at the facility.	
D.	The location of your operating position and the planned location of the antenna.	
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13-1 In considering power sources for HF radios, which of the following is true?		
A. C	DC to AC inverters can be used to power HF radios.	
В. 🏻	Standard automotive batteries last longer than deep cycle batteries.	
C.	AC powered HF radios are suitable for all emcomm use	
D. 🗖	Whenever possible, use deep cycle batteries to power HF radios.	
13-2 In	considering antennas for VHF/UHF radios, which is the best rule?	
A. C	High transmitter power is more important than having a good antenna.	
В. 🗖	Transmitter power and antenna selection are equally important.	
C.	A good antenna is more important than high transmitter power.	
D. D. power.	If properly used, "rubber ducky" antennas can compensate for low transmitter	
13-3 Beam antennas have many advantages. Which of the following is the best reason for selecting a beam antenna?		
A. C	They are inexpensive and easy to transport.	
В.	They are easy to erect and very stable in storm conditions.	
C.	They are compact and easy to store.	
D. C	They maximize desired signals and reduce interference from other stations.	
13-4 Which of the following statements about battery charging is true?		
A. Less than	The optimum charging voltage for lead acid batteries should be about two volts at the battery's rated voltage.	
B. Cabout ty	The optimum charging voltage for 12-volt lead acid batteries should be wo volts more than the battery's rated voltage.	
C.	SLA or "gel cell" are ordinarily recharged very rapidly.	
D. C	Deep cycle batteries require only a short time to recharge fully.	
	comparing the 30 amp Anderson power pole connector with the 10 amp Molex or, which of the following statements is true?	

A. C	The Molex is better for high power applications.
В. 🗖	The Molex is better for heavy duty cycles.
C.	The Anderson handles only low power applications.
D. Cof times	The Anderson is capable of being plugged and unplugged a greater number without deterioration.
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	nen a telephone tree is activated, what should be done when a caller cannot reach neir assigned contacts?
A. 🗖	Call all those assigned to the person who cannot be reached.
В. 🗖	Call the liaison to report the difficulty.
C. 🔽	Ignore that person and go on to the next assigned contact.
D. 🗖	Stop calling at that point to "break" the tree.
14-2 W	hat is an "emcomm activation liaison" for a served agency?
А. 🖸	A phone answering service employed by the agency.
В. 🗖	An automatic paging service employed by the agency.
C.	An agency employee who arrives early to turn on the equipment.
D. 🗖	A member of an emcomm group who is alerted first by the agency.
14-3 Re	garding emcomm alerting systems, which of the following is true?
A. C	All systems are equally useful.
В. 🗖	As an alerting system, commercial paging is clearly superior to all others.
C. 🗖	As an alerting system, the telephone tree is clearly superior to all others.
D. C	It is best not to rely exclusively upon any single alerting system.
14-4 Wł	nich of the following is true of e-mail as an alerting system?
A. Lappen to	With e-mail, emcomm members can be reached immediately anywhere they to be.
B. C	With e-mail, high-speed Internet connections guarantee that messages will be

received	l very quickly.	
C.	E-mail is best used as a back up alerting system.	
D. C	With e-mail, the CTCSS tone assures that all members will be quickly alerted.	
14-5 WI	hich of the following statements is true about the NCS?	
A. C	The NCS is so important that it should never be assigned on a temporary basis.	
B. Conly one	The NCS is so important that temporary assignment as NCS should be limited to e member of the group.	
	The NCS is so important that several members should be trained to take on ies until the assigned NCS checks in.	
D. incident	The first member to sign on to a net is always the NCS for the duration of the	
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15-1 Suppose that you have been activated during an emergency and have been told to report to an agency that is different from your usual assignment. Which of the following is your best course of action upon arriving at the new agency?		
A. C	Take charge and set up a communication center right away.	
В.	Check around the site and find the best place to set up a communication center.	
C. center.	Ask the receptionist about the best location for setting up a communication	
D. C	Introduce yourself to the person in charge as the emergency communicator d to that location.	
	ou are to brief the staff of a served agency about privacy on Amateur Radio. of the following is the most accurate statement you can make?	
A. Informa	Speaking quietly into a microphone assures that no one will overhear private tion.	
В. 🗖	It is permissible to use code words to assure privacy on the air.	
C.	There is no privacy with Amateur Radio voice communications.	
D. Con Ama	There are NO methods by which the security of any message can be assured ateur Radio.	

	popose that you have been assigned to a site and the emergency ends. If the site asks you to close your station, what is your best course of action?	
A. C	Do as the site manager tells you and close down your station immediately.	
В. 🗀	Ignore the site manager and await further instructions from higher authority.	
C. C	Check in with the emcomm manager or NCS before closing down.	
D. before y	Have your emcomm manager or NCS speak directly with the site manager ou take any action.	
15-4 In preparing to leave a site after an emcomm event, which of the following actions is <i>NOT</i> appropriate.		
A. Consistion	Clean up any mess, discard trash, and move furniture back to its original	
	Unpack all desk items that you have placed in boxes and put them back in iginal locations.	
C.	Thank all of those who worked with you.	
D. 🗖	Repair any relationships that may have been strained during the event.	
15-5 A debriefing should be scheduled after each emcomm event. What is the primary purpose of the debriefing?		
A. C	It provides an occasion to swap "war stories."	
В. 🗀	It serves as a legitimate forum for complaints.	
C.	It serves to improve future emcomm activities.	
D. 🗖	It provides an occasion for resolving interpersonal issues.	

A. C	Terrain.	
В. 🏻	Output Power.	
C. 🔽	Antenna Gain.	
D. 🔽	Digipeaters.	

16-2 Which of the following actions will NOT improve simplex reception?

A. 🗀	Increase the antenna height.
В. 🏻	Switch to a lower-gain, non-directional antenna.
C. 🔽	Increase transmitter output power at both stations.
D. C	Move the antenna away from obstructions.
16-3 W	hich of the following is true about a simplex repeater?
А. С	The FCC rules do not permit unattended operation of simplex repeaters.
В. 🏻	They work best in the "cross band repeater" mode.
C.	They require the use of two radios.
D. C	Is the same as a "human repeater."
	hich of the following is NOT an appropriate served agency assignment for an m volunteer?
A. 🗖	Field damage assessment and reporting.
В. 🏻	Driving a supply delivery vehicle.
C. 🔽	Typing inventory lists and filing memos.
D. C	Gathering weather data and reporting conditions.
16-5 Will event?	hich of the following is a good means of dealing with stress during an emcomm
A. C	Take every comment personally.
В. 🏻	Pay no attention to other team members; let them handle their own problems.
C.	To reduce personal stress, insist on working more than your own shift.
D. C first.	Prioritize your actions - the most important and time sensitive ones come

А. С	Boiling water for a full 5 minutes will kill most harmful bacteria.
В. 🗖	Boiling water to purify it can leave it with a flat taste.

C.	Filters may or may not remove harmful bacteria.
D. C	Purification tablets will remove bacteria and particulate matter (dirt).
17-2 Wł	nich of the following is true about using chlorine to purify water?
A. C B. C C. C D. C	It is best to use four to six drops of chlorine per gallon of water. Adding the proper amount of chlorine to water will improve the taste. Adding the proper amount of chlorine to water will kill cysts like Giardia. It is best to use 16 drops of plain chlorine per gallon of water.
17-3 Wh incident	nich of the following is true about the personal gear you bring to a long-term ?
A. C B. C c. C storage D. C clothing	As a volunteer communicator, you will need to bring specialized protective
	any disaster assignments are in unsafe places. Which of the following is true ach locations?
A. C B. C area. C. C and falli	Always plan an escape route from buildings and hazardous areas. Always plan more than one escape route from buildings and hazardous The only dangers that you need be concerned with in any location are fire, flooding debris. Dams, bridges and buildings can generally be thought of as "safe zones."
17-5 Wł	nich of the following statements about safety and survival is true?
A. C B. C	The mission takes priority over everything else. A person requires at least four gallons of water per day just for drinking.

C. minutes	If caffeine keeps you awake, stop drinking caffeinated beverages at least ten before going to bed.
D. 🗖	Your personal safety and well-being are a higher priority than the mission
17-6 Wł	nich of the following best defines an MRE package?
A. 🗖	Mainly Radio Equipment.
В. 🗖	Mostly Random Equipment.
C.	Meals, Ready to Eat.
D. 🗀	Meals, Rarely Eaten.
*****	********************
18-1 Wh	nich can you NOT use to identify your transmissions on Citizens' Band radio?
A. C allocatio	Your Amateur call, if you were licensed when 11-meters was an Amateur on.
В. 🗖	With your old Class D call sign, if you had one.
C.	A self-assigned identifier.
D. 🗖	A tactical call sign.
18-2Wh	ich is the best course of action for summoning help via CB?
A. 🗖	Use channel 1, since the lowest frequency has the longest ground-wave signal.
В. 🗖	Call at regular intervals on Channels 9 and 19 for a response.
C. 🔽	Call only on channel 9, since it is designated for assistance and emergencies.
D. 🗖	Say "Break-Break" or "MAYDAY" on any channel.
18-3 Wł	nich is <i>NOT</i> an advantage of using Family Radio Service (FRS) systems?
A. 🗖	They are readily available at low cost.
В. 🗖	Operation of FRS radios is simple and requires little training.
C.	There is no requirement for licensing to use FRS.
D. 🗖	Low transmitter power

18-4 Who may currently license a GMRS system with the FCC?		
A. C B. C C. C D. C	A privately owned business, for routine communications. An individual, for family and personal use. A charitable institution, for benevolent purposes. A local repeater club.	
18-5 Which is NOT true of the MURS?		
A. C B. C C. C D. C	A station license is not required. Power output is limited to 2 watts Radios operate in the VHF band. Mobiles may use up to 20 watts output power.	

A. C B. C C. C D. C	The Federal Emergency Management Agency arrives on the scene. The Red Cross and Salvation Army arrive with food and bedding for victims. Massive increase in the volume of traffic on public-safety radio channels. The press provides up to date and accurate information to the public.	
19-2 Which of the following statements is <i>NOT</i> true of interagency communication?		
A. C B. C C. C D. C	Many agencies use incompatible radio systems. Many agencies are reluctant to use each other's radio system. Agencies all use the same radio systems and frequencies. Amateur Radio can be used to link agencies.	

19-3 In the first 72 hours of a disaster situation, where is the greatest concentration of relief effort to be found?

A.	Urban areas.
В.	Suburban areas.
C.	Rural areas.
D. C	Outside the affected area.
19-4 Wh	nich organization handles health and welfare messages on behalf of the victims?
A. C	ARES.
В. 🗖	RACES.
C.	National Weather Service.
D. 🗖	American Red Cross.
19-5 Wh	nat is the usual situation in a disaster during the initial 72 hours?
A. 🗖	The disaster area remains in virtual isolation.
В. 🗖	The disaster is over and everybody can go home.
C.	A few victims still need assistance.
D.	Communication systems are back to normal.
*****	******************
	nich of the following BEST describes where you should be located when in the of a HazMat incident?
A. C	Far away enough to ensure your safety.
В.	Downhill and downwind.
C.	Close enough to read the numbers on any placards with your naked eyes.
D. C	Alongside emergency responders wearing exposure suits.
	nich federal agency is responsible for warning the public about hazardous s containers and shippers?
A. 🖸	Federal Emergency Management Agency.
В. 🗖	Federal Response Plan.

C.	National Communications System.
D. 🗖	Department of Transportation.
20-3 Be	efore transmitting in the area of a HazMat incident what should you always do?
A. C	First identify the agents by reading the placard or container labels.
В.	Be far enough away so that no vapors or fumes are present.
C	Wait to report the incident until police or fire officials have arrived.
D. C	Take action to stop or contain any agents that might be leaking.
20-4 W	hich information will give responding authorities the most useful information?
A. C	Placard color
В. С	Icon types
С.	Warning labels
с. D. 🗖	Four-digit numbers
D.	Four-digit numbers
	asoline tankers filling the neighborhood gas station's underground tanks are ed with a placard bearing which of the following?
A. C	1203
В. 🗖	1993
C.	2003
D. 🖸	2706

21-1 W	hen is it permissible to utilize channel FM 22?
A. 🗖	At anytime after making an initial call on FM 16?
В. 🖸	Whenever channel FM 9 or FM 16 are busy.
C. C	Only when directed by the Coast Guard.
D. D	At no time; it is for Coast Guard use only
D.	The notatio, it is for Coast Guard use only
21-2 W	hat should you do if you hear an unanswered marine distress call?

A. 🗀	Contact the nearest Coast Guard facility and advise them of the call.	
В.	Answer the caller immediately and ask what the emergency is	
C.	Get in your own boat and attempt a rescue.	
D. and the	Listen for a response. If none, respond and gather all information possible n contact the nearest Coast Guard facility	
When must you identify yourself on VHF-FM marine radio?		
A. C	Only on the initial call	
В. 🏻	Only on the initial call and the final call	
C.	Only on the original call and then every ten minutes.	
D. 🗀	On all transmissions.	
21-4 Which vessels operate MW/HF SSB radios?		
A. C	Any vessel that wants to	
В. 🗖	Only sea-going vessels that operate outside the range of VHF-FM radios.	
C.	Only those vessels that operate offshore and have a VHF-FM marine radio.	
D. C	Only those vessels that have an Amateur Radio operator aboard	
21-5 Which channel(s) may be used for calling another vessel?		
A. 🗖	FM 83	
В.	FM 9	
C	FM 16	
D. 🗖	Both FM 9 and FM 16	

22-1 Which of the following best describes your purpose as an emergency communicator?		
A. 🗀	To operate the radio.	
В. 🖸	To coordinate communications for the EOC.	

C. Canother	To provide accurate and rapid transfer of information from one place to
D. Cagency.	To provide internal communication support to one (and only one) responding
22-2Wh	ich of the following best describes tactical messages?
A. C	They are high precision and time critical.
В. 🖸	They are low precision and time critical.
C. 🔽	They are point-to-point and NOT time critical.
D. 🗖	They are point-to-multipoint and low precision.
22-3 Lo modes?	ong lists and detailed messages are best handled by which of the following
A. 🖸	Voice or CW
В. 🗖	Fax or digital
C.	CW or digital
D. C	Phone or fax
of the fo	ring an emergency, you are using voice transmissions to pass messages. Which llowing "guidelines" should govern your action if you were asked to transmit the nd addresses of victims?
A. 🗖	Transmit the information exactly as presented to you.
В.	Use a pre-established code to transmit the information.
C. C Radio .	If absolute privacy is required, do not transmit the information by Amateur
D. 🗖	Switch to a digital mode and be assured of complete privacy.
22-5 Wh	nich of the following PSK31 modes has an error correction feature?
A. 🗖	BPSK
В. 🏻	QPSK
C. 🔽	RPSK

Which of the following was NOT recommended as a means of practicing actual emcomm

skills? A. 🖸 Regularly scheduled nets В. On-air training sessions C. **Discussion groups and lectures** \mathbf{D} Public service events 23-2 What is the purpose of the next course in this series (ARECC Level II)? A C To reinforce the skills and knowledge presented in ARECC Level I. B. C To provide training for prospective Emergency Operation Center Managers. C. To prepare individuals for the jobs of NCS and Net Manager. D. To prepare individuals for the jobs of of DEC or SEC. 23-3 What is the purpose of the third course in this series (ARECC Level III)? A. To reinforce the skills and knowledge presented in ARECC Level II. В. To provide training for prospective Emergency Operation Center Managers. C. To prepare individuals for the jobs of NCS and Net Manager. D. To prepare individuals for management level emcomm positions.