

# Military Auxiliary Radio System Navy-Marine Corps MARS

MARS Operator Course  
3.01.a  
06 SEP 2008

## Review Test

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### INSTRUCTIONS:

This review test is designed to aid you in preparing for your final examination. You should try to complete this lesson without the aid of reference materials, but if you do not know an answer you can look it up. You should study the reference material for the items you missed before taking the final examination.

Although most of this review test follows the order of the units of this course, a few questions are interspersed about the SHARES program. You may skip those questions and come back to them after you study Unit Seven.

Use the Standard MARS answer sheet to record your answers. Select the ONE answer which BEST completes the statement or answers the question.

It is recommended that the review test be graded by your state FOUR or state director. Check with them regarding the policy for grading the review test in your locale. The final exam is graded at the area level.

You should not proceed to the final exam until you receive notice of satisfactory completion of the review test.

You should now proceed to the next page and begin the review test.

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1. The mission of the Navy-Marine Corps MARS program is to provide Department of the Navy-sponsored emergency communications on a \_\_\_\_\_, \_\_\_\_\_ and international basis as an adjunct to normal naval communications.

- a. local, national
- b. local, private
- c. city, county
- d. private, state

2. What are the three fundamental requirements of MARS communications?

- a. reliability, radio, and wire
- b. reliability, security, and speed
- c. security, speed, and ratio of standing wave
- d. stable frequency transmitter, speed key, and wire antenna

3. The active duty structure of MARS is composed of a Deputy Chief; Area Directors; command/activity MARS officers; and, \_\_\_\_\_.

- a. radio techs
- b. phone patch operators
- c. State directors
- d. Chief MARS

4. The volunteer structure of MARS contains many positions. Some of these positions are the members, net control stations, State Directors, specialty net coordinators, and special assistants to Chief, MARS. What are three others?

- a. Area Deputy Directors, Region Directors, and State Directors
- b. Chief operators, ARES staff, and State Directors
- c. Radio operators, phone patch operators, and OEC stations
- d. Phone patch operators, RACES Staff, and net controls

5. What is one of the membership criteria for individual stations?

- a. Have a valid Amateur Radio license
- b. Be a graduate of a technical vocational school
- c. Be an active member of a military reserve unit
- d. Be 14 years of age or older

6. What is one of the membership criteria for military stations?

- a. Amateur Radio license not permitted
- b. Amateur Radio license required during all operations
- c. Have written approval of the Chief of Naval Operations.
- d. Have proper approval of their commanding officer

7. A Trial Service (Tango) member has 90 days to meet minimum training requirements, but will always have at least \_\_\_\_\_ consecutive months to complete the trial period.

- a. 4
- b. 6
- c. 9
- d. 12

8. An individual member's MARS license is concurrent with his/her \_\_\_\_\_ license.

- a. broadcast
- b. amateur
- c. ARES membership
- d. RACES membership

9. An individual MARS member may continue MARS participation for \_\_\_\_\_ days after the expiration of his/her Amateur license.

- a. ten
- b. 30
- c. zero
- d. 60

10. What form must be sent to the State Director when applying for or updating an individual membership?

- a. DD FORM 510
- b. DD FORM 360
- c. NMC Form 2093/1
- d. NMO3 application

11. Referring to unit 7 in this course, which of the following is NOT correct about the SHARES program?

- a. select government agencies share each other's communications resources
- b. other government agencies freely share excess equipment with MARS members
- c. SHARES is derived from the words Shared Resources
- d. there are a limited number of slots available in SHARES for MARS members

12. Although various regions may handle reporting differently, ultimately, it is the responsibility of the individual member to report net participation to \_\_\_\_\_.

- a. Net Control Station (NCS)
- b. Area Director
- c. his/her State Director
- d. Chief, MARS and/or COMNAVTELCOM

13. Time spent in actual disaster participation shall be credited to the member at \_\_\_\_\_ the rate of normal participation.

- a. three times
- b. the same as
- c. twice
- d. one and one half times

14. You know that a minimum of 18 hours of participation is required per quarter. How much of that must be through HF net participation?

- a. 12
- b. 6
- c. 9
- d. 15

15. A member fails to have any participation for several months. Who is responsible to follow up and make recommendations to the area director regarding possible termination?

- a. State Director
  - b. Region Director
  - c. Chief, MARS
  - d. Net Control
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16. Three criteria by which a member can be terminated from the MARS program are:

- a. resignation, non-participation, or for cause.
- b. resignation, for cause, and transfer to another NMC Region.
- c. transfer, non-participation, or for cause.
- d. transfer, resignation, or no participation in a specialty net.

17. What are the two types of special membership?

- a. Associate and honorary
- b. Associate and Life
- c. Honorary and ARES
- d. Associate and club

18. Three of the six classes of NAVMARCORMARS operators (NMO). The first 3 are NMO3, NMO2, and NMO1. What are the other three?

- a. RAD3, RAD2, and RAD1
- b. NMO6, NMO5, and NMO4
- c. NMOC, NMOC2, and NMOC3
- d. NMOC, NMOSC, and NMOMC

19. State Directors may authorize an initial Leave of Absence (LOA) status up to \_\_\_\_\_ days at one time.

- a. 90
- b. 180
- c. 30
- d. 365

20. Members may request transfer to "Inactive Status" because of circumstances which temporarily prevent them from meeting minimum participation requirements. Periods of inactivity are valid for a maximum of \_\_\_\_\_ years.

- a. 1
- b. 2
- c. 10
- d. 5

21. What is the reporting period for the frequency usage report?

- a. any 30 day period of each month
- b. from the 1st day through the last day of each month
- c. the 26<sup>th</sup> of one month to the 25th of following month
- d. 1<sup>st</sup> and 16th of each month.

22. State directors review participation reports at least quarterly to determine \_\_\_\_\_.

- a. highest participation award
- b. who is invited to next area or region conference
- c. if a member is meeting minimum requirements
- d. points available to members for excess equipment issue

23. There must be an inventory of equipment at MARS area HQs at least \_\_\_\_?

- a. Annually
- b. Monthly
- c. Weekly
- d. Daily

24. Correspondence concerning MARS shall be handled within the framework of the \_\_\_\_\_.

- a. MARS organization
- b. U.S. Government
- c. DOD
- d. United States

25. The content of any communication, including press releases, shall be \_\_\_\_\_ and based on \_\_\_\_\_.

- a. complete, rumor
- b. widely known, available information
- c. accurate, fact
- d. whatever makes the Navy look good, personal observation

26. Local news releases are approved by the \_\_\_\_\_ .

- a. Area Director
- b. State Director's ECOM assistant
- c. Station member
- d. Net control

27. MARS networks consist of traffic, training, administrative, \_\_\_\_\_, \_\_\_\_\_ and tactical nets.

- a. radio, teletype
- b. digital, specialty
- c. specialty, command
- d. amtor, teletype

28. Your station is checked into the 5XIB net. It is in directed net status. Who must give permission for your station to contact another station?

- a. Net control station
- b. Chief operator
- c. Station supervisor
- d. Permission not required

29. Which statement best describes a free net?

- a. A net that does not have a net control station.
- b. A specialty net that is shared among MARS regions.
- c. one operating on a frequency the FCC does not charge the military to use.
- d. Stations may communicate with other net stations without obtaining permission from net control, but may not pass record traffic.

30. If you are serving as the NCS of a net, you are responsible for \_\_\_\_\_, \_\_\_\_\_, limiting transmissions, and monitoring net operations on the net.

- a. expediting traffic, maintaining circuit discipline
- b. testing the circuit, ensuring all traffic is entered into WinLink
- c. recording all net transmissions, testing station operators
- d. testing station operators, expediting traffic

31. While looking at the list of net designators for Region Two, you find 2XIA listed. You know from this designator it is an admin net. What other purpose does "2X1A" serve?

- a. It is a special case of Collective Call Sign used to address all stations on the net.
- b. It is used as the call sign of the net manager.
- c. It contains the call sign of the area director.
- d. It serves no other purpose than to identify the type of net.

32. MARS WinLink, also known as \_\_\_\_\_, operates over the internet. It also uses \_\_\_\_\_ for communications.

- a. WindowLink; specialized hand held communications devices.
- b. WL2K; HF digital mode.
- c. WL2K; a special gameboy cartridge.
- d. WI2K, no other features

33. The MARS VHF FM Repeater System (MARSREPSYS) extends the line of sight communications range of VHF communications facilities and is also used for \_\_\_\_\_ civil disaster control.

- a. local
- b. long haul
- c. world wide
- d. third world

34. What is the purpose of the Interoperability concept?

- a. To allow military stations to exchange traffic
- b. To monitor random nets collecting data on textual errors in message headings
- c. To pass record traffic to the nearest naval communication Switching Center
- d. To expedite delivery of message traffic on a local or State basis

35. Amateur Radio refile points/stations allow MARS members to accept Amateur Radio Service messages addressed \_\_\_\_\_.

- a. to other hams
- b. to armed forces personnel
- c. for legislative lobbying
- d. for commercial interests/business purposes

36. MARS refile points are established to allow the refile of message traffic from \_\_\_\_\_ to MARS during times of emergency.

- a. Navy and Marine Corps communication units
- b. overseas relay centers
- c. commercial communication facilities
- d. amateur radio stations

37. NAVMARCORMARS is assigned a block of call signs. All begin with \_\_\_\_\_.

- a. AAA
- b. CCC
- c. NNN
- d. MMM

38. What is the rule for power output consistent with good communications?

- a. Always use the minimum power necessary
- b. Always use the highest power available.
- c. Use the maximum power assigned in the Region Directory.
- d. Use sufficient power to overpower other stations.

39. While conducting phone patch operations on your prescribed frequency with another MARS station, you are contacted by an Army engineer unit. The Army engineer unit informs you that you are causing interference with their military operation. Which statement describes your appropriate reaction?

- a. Lower your power output by half and continue to operate.
- b. Cease operation on that frequency until it is clear.
- c. Have the Army engineer unit increase their power and share the frequency.
- d. Continue to operate as you were after explaining to the Army engineer unit that the frequency is MARS authorized.

40. Many assigned MARS HF frequencies are \_\_\_\_\_.

- a. Exclusive to the state they are assigned to
- b. Shared with other MARS regions, areas, and/or military commands
- c. Sold every 5 years to the highest bidder
- d. used by MARS for top secret communications

41. Types of messages authorized for transmission on MARS networks include administrative messages pertaining to MARS, Navy official or quasi-official messages, personal messages to or from Armed Forces personnel and authorized government employees, and \_\_\_\_\_.

- a. disaster exercise messages.
- b. immediate family death messages.
- c. real estate advertisement messages.
- d. Congressional inquiry request messages.

42. What are two types of messages not authorized for transmission via MARS?

- a. Business and exercise.
- b. Business and legislative
- c. Legislative and social
- d. Exercise and congressional

43. MARS members may publicize their message handling capabilities, but will not \_\_\_\_\_ personal messages.

- a. actively solicit
- b. assist in drafting
- c. accept for transmission
- d. recommend the U.S. mail service for

44. Which station may cancel a message?

- a. Relaying station
- b. Receiving station
- c. Originating station
- d. Net control station

45. messages are filed in a MARS station's file

- a. by Julian date
- b. by date-time-group
- c. sequentially by message number
- d. sequentially by date received

46. Your station's general message file must contain a copy of all required messages. General messages in this file must be subdivided by \_\_\_\_\_ and filed in \_\_\_\_\_ order

- a. month -- date-time-group
- b. day -- serial number
- c. title -- serial number
- d. month -- serial number

47. Your station provided communication support during a recent earthquake in California. How many years should the messages be retained?

- a. 1
- b. 2
- c. 3
- d. 4

48. Why are CIM's exchanged?

- a. To establish message and traffic reports
- b. To provide a concise means of passing MARS messages
- c. To assign stations making errors to the training net
- d. As a training tool regarding message discrepancies and procedural errors

49. Who can impose "MINIMIZE" on MARS networks?

- a. Net control
- b. Chief, MARS
- c. Region ECOM assistant
- d. State Director

50. Communications security is the protective measure taken to \_\_\_\_\_ unauthorized persons information derived from communications material or to \_\_\_\_\_ unauthorized persons in their interpretation of such communications.

- a. deny, mislead
- b. pass to, confuse
- c. deny, help
- d. give, upset

51. What are the three basic message FORMs?

- a. Plaindress, abbreviated plaindress, and codress
- b. Plaindress, modified plaindress, and codress
- c. Plaindress, codress, and abbreviated codress
- d. Plaindress, codress, and modified codress

52. What are the three basic parts of a message?

- a. Heading, subject, and text
- b. Address, text, and ending
- c. Heading, text, and ending
- d. Address, subject, and text

53. A service message is a short, concise message used to

- a. all of the following
- b. correct a message that has been receipted for
- c. advise originator if message can not be delivered
- d. trace a lost message

54. \_\_\_\_\_ message is used to forward a message to someone who was not an original addressee of the message.

- a. A general
- b. readdressal of a message
- c. duplication of a
- d. A multiple addressee

55. If you are not an assigned member of the SHARES program

- a. you can still support SHARES and pass traffic, just not on a SHARES frequency
- b. you must decline to handle any forwarding or delivery of SHARES messages
- c. you must apply to join SHARES within one year of membership
- d. other members won't talk to you

56. A message addressed to two or more addressees, each of whom must be informed of the other addressees, is a \_\_\_\_\_message.

- a. book
- b. single address
- c. multiple address
- d. collective address

57. A message addressed to two or more addressees where the originator considers that the addressees need not be informed of the other addressees is a \_\_\_\_\_ message.

- a. book
- b. single address
- c. multiple address
- d. collective address

58. A(n)\_\_\_\_\_message has a wide distribution, is assigned an identifying title in the subject line, and may be directive in nature.

- a. book
- b. action
- c. codress
- d. general

59. A tracer message is a(n)\_\_\_\_\_message initiated to determine the reason for inordinate delay or non-delivery of a message.

- a. service
- b. emergency
- c. codress
- d. duplicate

60. Your station sent a message 011300Z AUG 2006 to NNNOMSD for relay to NNNOASE THREE. Three days later, NNNOASE THREE informs you he did not receive that message. What would be your first action when initiating tracer action?

- a. Retransmit 011300Z AUG 2006 message as a duplicate message.
- b. Transmit a service message to NNNOASE THREE directing initiation of a tracer.
- c. Cancel the message and send a new version directly to NNNOASE THREE
- d. Transmit a tracer service message to NNNOMSD requesting verification of receipt for your 011300Z AUG 2006 message.

61. A personal message that cannot be delivered due to an incorrect or incomplete addressee must be \_\_\_\_\_ .

- a. serviced back to the originating station.
- b. readdressed to the Region Director for file
- c. mailed to the U.S. Post Office collection point.
- d. held on file for 30 days and then readdressed to the originator.

62. The personal message text in a MARSGRAM is limited to \_\_\_\_\_ words.

- a. 10
- b. 15
- c. 30
- d. 50

63. Which statement best describes the use of punctuation in a message?

- a. Punctuation is not permitted
- b. Punctuation marks are authorized only if spelled out.
- c. Punctuation shall be used where it is essential for clarity.
- d. Only the period (.) and comma (,) may be used in a message.

64. The correct procedure when transmitting a group of random letters, abbreviations, or words that cannot be pronounced is to precede such groups with the proword "\_\_\_\_\_".

- a. LETTERS
- b. FIGURES
- c. I SPELL
- d. RANDOM

65. When preparing a MARSGRAM for transmission, you notice a portion of the text stating "ARRIVED SAFELY OKINAWA." Which statement best describes your actions?

- a. Transmit the statement as it appears.
- b. you may convert the statement to the appropriate abbreviated text.
- c. Reject the message, MARSGRAMs are not transmitted overseas.
- d. Delete this portion of text, personal messages are not authorized.

66. Procedure signs consisting of one or more letters or characters used for rapid communications are called \_\_\_\_\_ .

- a. prosigns.
- b. short signals.
- c. operands.
- d. prowords.

67. Word equivalents of procedure signs for use in radiotelephone procedures are called \_\_\_\_\_.

- a. prosigns.
- b. operating signs
- c. operands.
- d. prowords.

68. Which type of operating signals are authorized for use in MARS communications?

- a. Q signals only
- b. Z signals only
- c. Q and Z signals
- d. No operating signals are authorized

69. A disaster requiring emergency communications support is defined as a \_\_\_\_\_ generally \_\_\_\_\_ occurrence or set of circumstances requiring an immediate system for sending and receiving information.

- a. temporary, widespread (over several states)
- b. sudden, unexpected
- c. predicted, unexpected
- d. scheduled, unforeseen

70. MARS members should be prepared to assist with emergency communications when requested by \_\_\_\_\_

- a. a bystander
- b. News media organizations
- c. commercial representatives
- d. an authorized official of civilian government

71. The first priority in the use of MARS communications resources is \_\_\_\_\_.

- a. Army Signal Corps activities needs within or supporting the affected area
- b. Red Cross.
- c. Agencies of civil government
- d. Navy and Marine Corps communications needs regardless of relationship to an incident.

72. Individual MARS members shall apprise \_\_\_\_\_ by the fastest means possible when an emergency or disaster occurs

- a. the MARS chain of command
- b. the local newspapers
- c. radio and TV stations
- d. any amateur radio station

73. \_\_\_\_\_ shall select a qualified volunteer member for appointment as Assistant to the area director for emergency communications.

- a. State director
- b. Area director
- c. Chief, NAVMARCORMARS
- d. Other staff members

74. Region directors shall promulgate a MARS Region ECOM plan based on the requirements of \_\_\_\_\_.

- a. a recent exercise
- b. last year's experience
- c. the specific MARS region.
- d. projections based on world wide disasters of last year

75. The SHARES program was a development that resulted directly as a consequence of communications problems during \_\_\_\_\_.

- a. The 1985 Mexico City earthquake
- b. The Alaska earthquake in the early 1960's
- c. The Cuban Missile Crisis of 1963
- d. first Apollo mission recovery efforts

76. State Directors should establish a State \_\_\_\_\_ net, designating \_\_\_\_\_ as NCS.
- a. ECOM, a senior member
  - b. evaluation net, a volunteer
  - c. after-event critique net, a participating member
  - d. ECOM training, the State ECOM assistant
77. Each NAVMARCORMARS member shall endeavor to equip his/her station to operate \_\_\_\_\_.
- a. without the use of commercial power
  - b. every known frequency from 2.0MHz to 2.2 GHz
  - c. in a dusty environment
  - d. in rainy and/or cold weather
78. Each NAVMARCORMARS member shall advise their State Director with \_\_\_\_\_ regarding involvement in matters concerning ECOM.
- a. daily evaluations
  - b. SITREPS
  - c. lists of civil authorities
  - d. occasional reports
79. A station is understood to have good \_\_\_\_\_ and \_\_\_\_\_ unless otherwise notified.
- a. signal strength -- readability
  - b. signal strength -- power out
  - c. readability -- power out
  - d. readability -- reliability
80. Any MARS member may effect local implementation of an ECOM plan when requested by proper \_\_\_\_\_ or \_\_\_\_\_ authorities.
- a. disaster control, civilian corporation official
  - b. military, civilian
  - c. local residents, civil disaster
  - d. Members of the news media, state

81. Preliminary calls are made when communication is difficult and to find out whether the called station is \_\_\_\_\_ .

- a. reliably transmitting
- b. still operating on the net
- c. about to send message traffic.
- d. ready to receive message traffic.

82. Digital communications procedures are identical to the basic radiotelephone procedures regarding \_\_\_\_\_.

- a. message format
- b. use of prosigns and operating signals
- c. various transmission methods
- d. none of the above

83. NAVMARCORMARS continues to use earlier radio transmission systems such as RTTY and has added newer systems such as \_\_\_\_\_ and \_\_\_\_\_.

- a. audio tape, film
- b. punched tape, ASCII
- c. email, computers
- d. AMTOR, Packet

84. The test format for AMTOR, PacTOR, and FEC transmissions shall be \_\_\_\_\_ signal, (no characters), sent for a minimum of \_\_\_\_\_ .

- a. RY's, ten minutes
- b. RY's and Quick Bown Fox, fifteen seconds
- c. QBF, ten minutes
- d. the synchronization, ten seconds

85. The precedence of a message shall be indicated \_\_\_\_\_ by use of the appropriate prosign

- a. in the handling instructions
- b. following the first break (BT)
- c. after transmission of the message
- d. just ahead of the DTG

86. What is the prosign/proword used in receipting for a message?

- a. B - MORE TO FOLLOW
- b. C - CORRECT
- c. G - READ BACK
- d. R - ROGER

87. Emergency communication procedures are guidelines for emergency communications \_\_\_\_\_ and \_\_\_\_\_ should it become necessary to utilize NAVMARCORMARS resources during an emergency or disaster.

- a. personnel, equipment
- b. news media, civilian contacts
- c. planning, action
- d. implementation, equipment

88. COMCON III requires that NAVMARCORMARS stations be alerted to \_\_\_\_\_ to the extent feasible and take preliminary precautions

- a. test equipment
- b. gather supplies
- c. contact civil officials
- d. monitor primary frequencies

89. Which of the following is not contained in the introduction to Unit 6.

- a. There is an Appendix A to Unit 6
- b. a list of all ART designators by region
- c. it is important to participate in ECOM exercises
- d. regularly review NTP-8 Annex D

90. Frequencies \_\_\_\_\_ , \_\_\_\_\_ and 4042.5 KHz have been designated as national MARS common frequencies.

- a. 7385 KHz, 7285 KHz
- b. 7382.5 KHz, 14385 KHz
- c. 14400 KHz, 14440 KHz
- d. 3500 Khz, 4000 Khz

91. Tactical nets may be established during \_\_\_\_\_ or \_\_\_\_\_ emergency event only to provide point-to-point communications between stations

- a. civil, remote
- b. simulated, military
- c. civil, local
- d. actual, exercise

92. Inter-Area communications shall be coordinated between \_\_\_\_\_.

- a. Civil agencies
- b. State directors
- c. Specialty net coordinators
- d. Area directors

93. During an emergency, \_\_\_\_\_ and \_\_\_\_\_ of communications facilities are paramount for an effective emergency communications system

- a. adequate, secure
- b. ready, well equipped
- c. simple, tested
- d. mobility, adequately manning

94. Reports to \_\_\_\_\_ are essential to properly evaluate the overall emergency situation

- a. civil authorities
- b. officials in charge
- c. all levels of NAVMARCORMARS management
- d. news media

95. To evaluate ECOM readiness, exercises are conducted at the \_\_\_\_\_ and national levels.

- a. State, region, area
- b. local, city
- c. city, county
- d. municipal

96. Joint exercises (with Army and Air Force MARS) are encouraged. Within a state, the plan is approved by the \_\_\_\_\_ and should be reviewed by \_\_\_\_\_ .

- a. Region Director; Staff Assistant
- b. State director; the state TWO and state FIFTEEN
- c. State Director; any volunteer member
- d. NCS; ALTNCS

97. During an emergency, an Auxiliary Radio Team (ART) is sent to \_\_\_\_\_

- a. the scene of a disaster, or the incident command post
- b. a commercial radio station as a backup.
- c. draw pictures of the incident
- d. regional FEMA headquarters

98. Why is a SAT established?

- a. Provides relief to an ART team
- b. Tests ART team prior to implementation
- c. provide multiple operators to key stations for 24 hr operations
- d. to handle all the secret and top secret messages sent via MARS

99. Two of the addressees who must receive the emergency communications implementation message include Chief, MARS and the \_\_\_\_\_.

- a. Commander, Naval Telecommunications.
- b. Assistant to Chief, MARS for Emergency Communication
- c. Assistant to Chief of Naval Operations for Disasters
- d. Assistant to Region Director for Auxiliary Communication

100. An auxiliary radio team at a disaster site must send a situation report (SITREP) at least every \_\_\_\_.

- a. 6 hrs
- b. 12 hrs
- c. 18 hrs
- d. 24 hrs

**End, MOC review test.**

**Normally the review test answer sheets are graded by your state FOUR. If in doubt, check with your state FOUR or state director.**