SAR FUNDS STUDY GUIDE

1: A coverage of 2.0 would be appropriate when:

A: SEARCH ASSETS ARE PLENTIFUL
   B: SEARCH ASSETS ARE SCARCE
   C: A TRACK SPACING OF .5 IS USED
   D: A HELICOPTER IS SEARCHING FOR A RAFT

2: Which risk management model identifies the risks to consider?

A: SPE
   B: PEACE
   C: GAR
   D: STAAR

3: The values listed in the uncorrected sweep width are reduced by what percentage if the SRU indicates that the search crews are fatigued?

A: % 5
   B: % 10
   C: % 15
   D: % 20

4: What is the POS for a search is the POC is %45 and the POD is %30?

A: % 150
   B: % 75
   C: % 15
   D: % 13.5

5: What is referred to as the distance on both sides of the SRU where the probability of detecting a target outside of the sweep width is equal to the probability of missing a target inside the distance?

A: CREEP
   B: SWEEP WIDTH
   C: TRACK DISTANCE
   D: TRACK SPACING

6: What color flare is considered distress?

A: WHITE
   B: RED
   C: GREEN
   D: ORANGE
7: What is the term used to describe the most probable location of a search object, corrected for movement over time?

A: DATUM
B: LEEWAY
C: DRIFT ERROR
D: TOTAL PROBABLE ERROR

8: What is another term for directional uncertainty?

A: DIVERGENCE
B: RECIPROCAL
C: TOTAL SURFACE DRIFT
D: LEEWAY

9: On scene endurance is reduced by what percentage to account for turns and sighting identification to arrive at search endurance?

A: % 5
B: % 10
C: % 15
D: % 20

10: What search pattern is best when you are searching a track or bearing?

A: SQUARE
B: SECTOR (VS)
C: PARALLE
D: TRACKLINE

11: How much area can an HH-65 search, flying at 90kts with a 2NM track spacing and an on scene endurance of 1.5 hours? Don’t forget to account for turns and identification!

A: 229.5 SQNM
B: 270 SQNM
C: 317.6 SQNM
D: 540 SQNM

12: When using the fist method to determine angle of observation of a flare, ¼ of a fist is equal to how many degrees?

A: 1
B: 2
C: 4
D: 5
13: Where is the Commence Search Point (CSP) on a Creeping or Parallel search pattern?

A: ½ TRACK SPACE (S) IN FROM SIDES
B: NE CORNER
C: SW CORNER
D: ¼ TRACK SPACE (S) IN FROM SIDES

14: Who is responsible for risk management?

A: SMC
B: OSC
C: SRU
D: EVERYONE

15: In what direction does the second unit commence their search in a VM?

A: 120 to the right
B: 120 to the left
C: 90 to the right
D: 90 to the left

16: What risk management model is used to identify options in order to reduce operational risk?

A: SPE
B: PEACE
C: GAR
D: STAAR

17: Where does CSP start in a VS search?

A: AT DATUM
B: ½ TRACK SPACING IN FROM THE CORNER
C: DUE NORTH
D: 30 DEGREES TO THE RIGHT

18: The flare type that has a burn duration of approximately 5 seconds is a?

A: METORE
B: HAND HELD
C: PARACHUTE
D: PENCIL
19: What are the two main causes of Risk management breakdown?

A: Inadequate communications and loss of situational awareness
B: Inadequate communications and inadequate chain of command
C: Loss of situational awareness and inadequate safety gear
D: Inadequate chain of command and inadequate safety gear

20: Using the clock method, if a reporting source was facing due north, what bearing would the flare have been seen if the reporting source said the flare was seen at 2 o’clock?

A: 020 DEGREES TRUE
B: 060 DEGREES TRUE
C: 090 DEGREES TRUE
D: 180 DEGREES TRUE

21: The standard value track spacing you would use for an initial search for a PIW is up to the SRU’S minimum ability to navigate?

A: 0.1 NM
B: 0.5 NM
C: 1.0 NM
D: 1.5 NM

22: What is the most reliable source of “Total Water Current”?

A: DATUM MARKER BUOY (DMB)
B: LAST KNOWN POSTION
C: NOAA WEBSITES
D: SAR TOOLS

23: What factor is NOT considered in the GAR model?

A: CREW FITNESS
B: SEVERITY
C: COMPLEXITY
D: ENVIRONMENT

24: What type of search pattern is used when datum is established within close limits, the area to be searched is not extensive, and a concentration effort is desired at datum?

A: SECTOR
B: EXPANDING SQUARE
C: PARALLEL
D: TRACKLINE
25: You have been instructed to conduct an Expanding square search pattern with a track spacing of 1 NM. How long will your fourth search leg be?

A: 1 NM  
B: 2 NM  
C: 3 NM  
D: 4 NM

26: A vessel has been reported overdue on a voyage and the only information known is time of departure and intended route. What is the appropriate search pattern to use?

A: PS  
B: TSR  
C: PS  
D: CS

27: What is the abbreviated designation for a sector, single unit search pattern?

A: SS  
B: TSR  
C: VS  
D: CS

28: You have been tasked to conduct an Expanding square search pattern with a track spacing of 1 NM. How long will your third search leg be?

A: 1 NM  
B: 2 NM  
C: 3 NM  
D: 4 NM

30: A Datum marker buoy CANNOT provide historical drift data.

A: TRUE  
B: FALSE

31: What is the term used to describe the movement of the search object through the water caused by winds blowing against the exposed surface of the search object?

A: LAST KNOW POSITION  
B: DIVERGENCE  
C: LEEWAY  
D: DATUM
32: Wind currents should be determined when water depths exceed 100ft, and distance off shore is greater than how many miles?
   A: 20 NM  
   B: 3 NM  
   C: 25 NM  
   D: 50 NM

33: What type of search pattern is used to search a large area uniformly, covering one end of the search area first?
   A: CREEPING LINE  
   B: SECTOR  
   C: EXPANDING SQUARE  
   D: BARRIER

34: A concerned citizen just reported a flare with a rapid rise and fall. The reporting source described a _______ flare.
   A: METEOR  
   B: PARACHUTE  
   C: HANDHELD  
   D: SHOOTING STAR

35: The PEACE model is used to ____________.
   A: MEASURE OPTIONS  
   B: IDENTIFY OPTIONS  
   C: MEASURE RISKS  
   D: IDENTIFY RISK FACTORS

36: Sea currents should be determined when water depths exceed 300ft and distances from shore are greater than how many miles?
   A: 25 NM  
   B: 3 NM  
   C: 20 NM  
   D: 50 NM

37: How are the search legs of a barrier search conducted?
   A: Perpendicular to the direction of drift  
   B: Parallel to the direction of drift  
   C: Down drift  
   D: Into the current
38: The combined factors of wind current, sea current, and Leeway are called _________.
   A: TWC
   B: TSD
   C: DATUM
   D: LAST KNOW POSITION (LKP)

39: What is the term for “W”?
   A: WIND CURRENT
   B: UNCORRELATED SWEEP WIDTH
   C: CORRECTED SWEEP WIDTH
   D: WATER CURRENT

40: How much area can a 41ft UTB cover, searching 12kts, with a track spacing of 2 NM and a search endurance of 4 hours? Don’t forget to account for turns and sighting identification!
   A: 76.8 SQNM
   B: 78.6 SQNM
   C: 81.6 SQNM
   D: 86.1 SQNM

41: What risk assessment model is used to measure risk?
   A: SPE
   B: PEACE
   C: GAR
   D: STAAR

42: What is the formula for determining an attainable search area?
   A: \( V \times S \times T \times 0.85 \)
   B: \( W \div S \)
   C: \( V \times S \times T \)
   D: POD \times POD

43: What type of flare has a rapid rise and slow decent?
   A: METEOR
   B: HANDHELD
   C: PENCIL
   D: PARACHUTE
44: What search pattern is best used when the target is more likely to be in one end of the area than the other? The legs run perpendicular to the major axis.

A: SECTOR
B: PARRALLE
C: CREEPING LINE
D: TRACK LINE

45: The STAAR model is used to_________

A: MEASURE OPTIONS
B: IDENTIFY OPTIONS
C: MEASURE RISKS
D: IDENTIFY RISK FACTORS

46: How are the turns made for a Sector Search, single unit (VS) made?

A: 120 DEGREES TO THE RIGHT
B: 120 DEGREES TO THE LEFT
C: 90 DEGREES TO THE RIGHT
D: 90 DEGREES TO THE LEFT

47: The PS search pattern runs along what axis?

A: MAJOR
B: MINOR
C: HORIZONTAL
D: PARALLE

48: When conducting a parallel search, how are the search legs to the major axis?

A: PARALLE
B: HORIZONTAL
C: VERTICAL
D: PERPENDICULAR

49: What type of search pattern has its search legs increasing by 1 track spacing every other leg?

A: EXPANDING SQUARE
B: CREEPING LINE
C: SECTOR (VS)
D: PARALLE
50: What search pattern is used to cover a large area uniformly when there is equal probability of the target being anywhere in the search area?

A: PARALLEL  
B: SECTOR  
C: EXPANDING SQUARE  
D: TRACK LINE

51: What search pattern is best used when it’s confident that datum is within close limits, the first leg is in the direction of the drift, and all course changes are 90 degrees to the right?

A: SQUARE  
B: SECTOR  
C: PARALLEL  
D: TRACK LINE

52: Medical care is a function of the __________ component of the SAR system.

A: ORGINAZTION  
B: RESOURCES  
C: COMMUNICATIONS  
D: EMERGENCY CARE

53: The primary responsibility of the OSC is to___________.

A: COORDINATE EFFORTS ON SCENE  
B: CONDUCT THE SEARCH  
C: ASSIGN SRU’S  
D: WRITE THE SAR PLAN

54: The safety broadcast pro word indicating that the calling station is about to transmit important meteorological information is_______.

A: SECURITE  
B: PAN PAN  
C: MAYDAY  
D: MARB

55: You deploy resources, implement your search plan, and rescue survivors during the ____________ stage of the SAR system.

A: INITIAL ACTIONS  
B: PLANNING  
C: OPERATIONS  
D: CONCLUSION
56: Salvage operations shall be performed at the discretion of______.
   A: CO/OIC
   B: COTP
   C: SMC
   D: OSC

57: A broadcast that does not include position and or identification information sufficient to generate a reasonable search area is an______.
   A: UNCORRELATED DISTRESS
   B: FALSE ALERT
   C: HOAX
   D: MARB

58: Where can you find coast guard policy on commercial assistance?
   A: CHAPTER 1 OF THE NATIONAL SEARCH AND RESCUE MANUAL, VOL 1
   B: COMDINST 3710.1D
   C: CHAPTER 4 OF THE NATIONAL SEARCH AND RESCUE MANUAL
   D: BLUE JACKET’S MANUAL

59: Can you legally enter a place that is posted “NO TRESSPASSING” while conducting SAR?
   A: YES
   B: NO

60: What is the importance of 14 USC 88?
   A: GIVES THE COAST GUARD THE RIGHT TO CONDUCT SAR.
   B: AUTHORIZES THE COAST GUARD TO BOARD REC BOATS
   C: GIVES THE COAST GUARD PERMISSION TO ARREST BOATERS
   D: AUTHORIZES THE COAST GUARD TO ENTER ANOTHER COUNTRY’S TERRITORIAL WATERS TO CONDUCT SAR.

61: When is the OSC required to send a SITREP to the SMC?
   A: EVERY 4 HRS
   B: ONCE A DAY
   C: WHEN A NEW SRU ARRIVES ON SCENE
   D: WITHIN AN HR OF ARRIVAL ON SCENE
62: Who can be an official coast guard spokesperson?

A: ANY COAST GUARD MEMBER
B: ONLY THE CO OR XO
C: ONLY THE APPOINTED PUBLIC AFFAIRS OFFICIAL
D: ONLY THE SMC

63: When possible, when collecting information from a reporting source, what are the 4 most important information to collect?

A: NATURE OF DISTRESS, NAME OR REPORTING SOURCE, LOCATION, AND CALL BACK NUMBER
B: LAST KNOWN POSTION, NATURE OF DISTRESS, PERSONS ON BOARD, AND DESCRIPTION
C: WHO, WHAT, WHEN, WHERE
D: NAME, PERSONS ON BOARD, GEOGRAPHIC LOCATION, DESCRIPTION

64: What Is MEDICO?

A: MEDICAL ADVICE
B: MEDIA CALL OUT
C: MEDICAL EVACUATION
D: MEDIA ADVICE

65: An SRU should contact the OSC how long before arriving on scene?

A: 15 MINS
B: 30 MINS
C: 1 HR
D: 24 HRS

66: What keyword is associated with UNCERTAINTY emergency phase?

A: APPREHENSION
B: DANGER
C: DOUBT
D: AWARENESS
67: You would deactivate the SAR system when__________.
   A: THE INCIDENT IS NO LONGER A DISTRESS
   B: ALL HOPE OF FINDING SURVIVORS ARE EXHAUSTED
   C: THE SEARCH IS SUSPENDED
   D: ALL OF THE ABOVE

68: What type or resources are marine patrol vessels?
   A: TRADITIONAL
   B: NON TRADITIONAL
   C: OTHER AGENCIES

69: You are being interviews about a recent boating mishap involving injuries. What technique would you use to address the importance of wearing flotation devices?
   A: HOOKING
   B: COMMAND MESSAGE
   C: BRIDGING
   D: FLAGGING

70: When you receive a distress call, are you required by law to go out for SAR?
   A: YES
   B: NO

71: An overdue vessel would be a____________distress.
   A: POTENTIAL
   B: ACTUAL

72: You collect and analyze information as a function of the_______ component of the SAR system.
   A: ORGANATION
   B: RESOURCES
   C: COMMUNICATIONS
   D: DOCUMENTATION

73: What criteria should be considered when selecting OSC?
   A: ON SCENE CAPABILITIES
   B: FAMILIARTY WITH SAR
   C: FIRST SRU ON SCENE
   D: ALL ARE CORRECT
74: What keyword is associated with the ALERT emergency phase?

A: APPREHENSION  
B: DANGER  
C: DOUBT  
D: AWARENESS

75: What type of broadcast is sent out for a boater not in distress, but in need of assistance?

A: MARB  
B: EPIRB  
C: PAN PAN  
D: MAYDAY

76: A fisherman is reported missing, you are the OSC. Before getting underway, you are approached by a reporter, he/she asks what you think happen to the fisherman. What should you do?

A: AVOID PRESENTING ANY BAD NEWS  
B: DON’T SPECULATE THE INCIDENT  
C: REPLY “NO COMMENT” IF YOU DON’T KNOW THE ANSWER  
D: PROVIDE POTENTIAL CONSEQUENCES

77: When is the SAR system deactivated or shut down?

A: THE CASE IS CLOSED, OR TARGET LOCATED  
B: THE CALL IS A FALSE ALARM  
C: THE SEARCH IS SUSPENDED  
D: ALL OF THE ABOVE

78: A reporter asked you about an ongoing lawsuit involving the Coast Guard negligence about a sailboat sinking during a storm. What is your response?

A: NO COMMENT  
B: I CANT COMMENT ABOUT THE ON-GOING JUDICIAL PROCEEDING  
C: THE SAILBOAT SHOULDN’T HAVE BEEN OUT IN THE STORM  
D: THE WATCHSTANDER DID NOT RECEIVE A DISTRESS CALL

79: You conduct a Parallel search during the ______ stage.

A: AWARENESS  
B: INITIAL ACTIONS  
C: PLANNING  
D: OPERATIONS
80: During what stage of the SAR system do you specify the search area?

A: AWARENESS  
B: INITIAL ACTIONS  
C: PLANNING  
D: OPERATIONS

81: As a Coast Guard spokesman, you can release any information of a SAR case as long as it’s accurate.

A: TRUE  
B: FALSE

82: Who evaluates sightings during a SAR case, if feasible?

A: OSC  
B: SRU  
C: SMC  
D: SC

83: A capsized boat is located off shore and a body was found outside the search area. A reporter raises a question of liability. What is your response?

A: NO COMMENT  
B: I DON’T KNOW  
C: THE MATTER IS UNDER INVESTIGATION  
D: THE COAST GUARD DID EVERYTHING THEY COULD

84: You alert the SAR facilities during what stage of the SAR system?

A: AWARENESS  
B: INITIAL ACTIONS  
C: PLANNING  
D: OPERATIONS

85: Who should be contacted during a case involving injuries?

A: AIR STATION  
B: COAST GUARD EMT  
C: FLIGHT SURGEON  
D: GROUP CORPSMAN
86: You receive a call from the police about a possible flare sighting, do you activate the SAR system?

A: YES  
B: NO

87: Which component of the SAR system identifies roles and responsibilities?

A: ORGANIZATION  
B: RESOURCES  
C: COMMUNICATIONS  
D: DOCUMENTATION

88: What is MEDEVAC?

A: MEDICAL ADVICE  
B: MEDIA CALL OUT  
C: MEDICAL EVACUATION  
D: MEDIA ADVICE

89: What are the 5 paragraphs of the SITREP?

A: SITUATIONS, SEARCH AREA, ACTIONS TAKEN, FUTURE PLANS AND RECOMMENDATIONS, CASE STATUS  
B: SITUATION, ACTIONS TAKEN, FUTURE PLANS AND RECOMMENDATIONS, AMPLIFYING INFORMATION, CASE STATUS  
C: SITUATION, ACTION TAKEN, COMMUNICATION, FUTURE PLANS AND RECOMMENDATIONS, CASE STATUS  
D: SITUATION, EXECUTION, COMMUNICATIONS, FUTURE PLANS AND RECOMMENDATIONS, CASE STATUS

90: A benefit of a good relationship between the Coast Guard and the public is_______.

A: MORE FUNDING  
B: VOLUNTEER INFORMATION  
C: RESPECT FOR SAFETY ZONES  
D: ALL ARE CORRECT  
E: BOTH B AND C

91: Commercial vessels have a “legal” obligation to assist boaters in distress.

A: TRUE  
B: FALSE
92: You receive a call from the dockmaster for a vessel fire. This is a ________ distress.

A: ACTUAL
B: POTENTIAL

93: Which of the following best describes the Coast Guards relationship with a commercial salvor?

A: THE COAST GUARD CANNOT PASS OFF A TOW TO A COMMERCIAL SALVOR, BUT CAN INTERVENE WITH THEM IF THE SITUATION IS NOT UNDER CONTROL.
B: THE COAST GUARD CANNOT PASS OFF A TOW TO A COMMERCIAL SALVOR, AND CANNOT INTERVEN WITH THEIR OPERATIONS
C: THE CG CAN PASS OFF A TOW TO A COMMERCIAL SALVOR, IF HE IS CAPABLE AND CAN INTERVENE WITH THEIR OPERATIONS IF THE SITUATION IS NOT UNDER CONTROL. ASSITED UNTILL REMEDIATED OR RELIEVING IF NECCEASSARY
D: THE CG CAN PASS OFF A TOW TO A COMMERCIAL SALVOR, IF HE IS CAPABLE, BUT CANNOT INTERVENE WITH THEIR OPERATIONS

94: When you communicate with media, you should______.

A: ELABORATE WHENEVER POSSIBLE
B: STATE ONLY THE FACTS
C: UNDERESTIMATE THE QUANTITY, RATHER THAN UNDERESTIMATE
D: DESCRIBE THE SCENE IN DETAIL

95: A barrier search is used when:

A: A STRONG CURRENT EXISITS
B: THERE IS A STRONG POSSIBLITY THAT THE SEARCH OBJECT IS AT ONE END OF THE SEARCH AREA
C: THE SEARCH AREA IS SMALL, AND THE LAST KNOWN POSITION ACCURACY IS CONSIDERED GOOD
D: THE SEARCH AREA IS LARGE, AND LAST KNOW POSITION IS APPROXIMATE

96: What part of the SAR system would cover centralized control and coordination

A: ORGANIZAITION
B: RESOURCES
C: COMMUNICATOIN
D: EMERGENCY CARE
97: What are the seven paragraphs of SAP?

A: SITUATION, REPORTS, ACTION, SEARCH AREA, EXECUTION, COORDINATION, COMMUNICATION
B: SITUATION, REPORTS, ACTION TAKEN, COMMUNICATIONS, COORDINATION, FUTURE PLANS AND RECOMMENDATIONS, CASE STATUS
C: SITUATION, ACTION, SEARCH AREA, EXECUTION, COORDINATION, COMMUNICATION, CASE STATUS
D: SITUATION, SEARCH AREA, EXECUTION, COORDINATION, COMMUNICATION, FUTURE PLANS AND RECOMMENDATION, CASE STATUS