

**2019 Southwestern Regional Mine Rescue Contest
Ruidoso, NM
.Written Test – Team Trainer Competition.**

Name _____ Company _____

Team Name _____ Contest Position No. _____

Team Member No. _____

Directions: Use answer sheet & fill in completely.

Q#1) A disrupted ventilation system can result in:

- A) Buildup of explosive gases;
- B) Oxygen-deficient atmosphere;
- C) Buildup of toxic gases;
- D) All of the above.

Q#2) The team scheduled to be on the surface in ready reserve when teams are working underground is considered the:

- A) Standby Team
- B) Backup Team
- C) Reserve Team
- D) Working Team

Q#3) Stopping is another name used for:

- A) Face;
- B) Air Curtain;
- C) Airlock;
- D) Bulkhead.

Q#4) The process of assessing conditions underground and locating miners is called:

- A) Triage
- B) Recovery
- C) Exploration
- D) Recovery

Q#5) Two of the main objectives of exploration work during a mine fire are:

- A) Rescue and recovery;
- B) Locating the fire and assessing the conditions;
- C) Locating miners and reestablishing ventilation;
- D) Locating fires and sealing them.

- Q#6) When recovering a mine after a disaster tasks could include:
- A) Clearing falls and debris;
 - B) Securing hazardous ground;
 - C) Pumping water;
 - D) All of the above.
- Q#7) Which of the following statements about critical incident stress is MOST accurate?
- A) It can always be avoided with proper preparation;
 - B) It affects all people the same way;
 - C) It is rarely caused by one incident.
 - D) It can be the result of many incidents over a long period of time.
- Q#8) A patient with a suspected spine injury will likely be placed on a long board in the _____ Position.
- A) Prone;
 - B) Supine;
 - C) Lateral;
 - D) Recumbent.
- Q#9) The five common vital signs are pulse, respirations, blood pressure, pupils, and:
- A) Mental Status;
 - B) Capillary refill;
 - C) Oxygen saturation;
 - D) Skin signs.
- Q#10) The primary assessment begins with:
- A) Evaluating the patient's circulation;
 - B) Assessing the patient's airway;
 - C) Assessing the patient's mental status;
 - D) Forming a general impression.
- Q#11) The tearing loss or the tearing off of a large flap of skin describes which of the following types of wound?
- A) Avulsion;
 - B) Abrasion;
 - C) Amputation;
 - D) Laceration.
- Q#12) Burns most often result in _____ shock.
- A) Septic;
 - B) Neurogenic;
 - C) Cardiogenic;
 - D) Hypovolemic

Q#13) To be considered for membership on a mine rescue team, each person must have been employed in an underground mine for a minimum of ____ years(s) in the past ____ years?

- A) 2, 5;
- B) 1, 2;
- C) 2, 3;
- D) 1, 5.

Q#14) Prior to serving on a mine rescue team each member shall complete, at a minimum, an initial _____ course of instruction?

- A) 40-hour;
- B) 24-hour;
- C) 20-hour;
- D) 16-hour.

Q#15) If an underground mine is _____ an operator may provide for an alternative mine rescue capability.

- A) Operating in special mining conditions;
- B) Small and remote;
- C) Neither are correct;
- D) Both A & B

Q#16) Each member of a mine rescue team shall be examined annually. The first such physical examination shall be completed within _____ days prior to scheduled initial training.

- A) 90;
- B) 60;
- C) 30;
- D) 10.

Q#17) The training courses required in this section shall be conducted by instructors who have been employed in an underground mine for a minimum of _____ year(s) within the past _____ years?

- A) One, five;
- B) Two, five;
- C) One, ten;
- D) None of the above.

Q#18) Training sessions underground will occur at least once each:

- A) 30 Days;
- B) 90 Days;
- C) 3 Months;
- D) 6 Months.

- Q#19) Any team whose member(s) intentionally disturb or destroy any component on a competition field will immediately be assessed a _____ point discount.
- A) 10
 - B) 50
 - C) 100
 - D) 200
- Q#20) In the event of mine rescue competition ties, the first tie breaker will be the:
- A) Written Field test;
 - B) Surface discount sheet;
 - C) Mine maps;
 - D) Underground discount sheet.
- Q#21) Testing of the equipment to be used by the team should be done:
- A) On the field;
 - B) On the clock;
 - C) While in isolation;
 - D) Upon completion of the problem.
- Q#22) _____ the air current will be considered a ventilation changes.
- A) Starting;
 - B) Altering;
 - C) Redirecting;
 - D) All of the above.
- Q#23) During the first aid competition any team member committing an act that will endanger the patients will receive _____ discounts for each infraction.
- A) 100;
 - B) 50;
 - C) 20;
 - D) 10.
- Q#24) For completion of the Technician Team competition all equipment must be:
- A) Disassembled;
 - B) Stored for travel;
 - C) Ready for use;
 - D) Any of the above.
- Q#25) Prior to each day's use the MX6 should:
- A) Have a bump test performed;
 - B) Be calibrated;
 - C) Be serviced;
 - D) Have sensor's replaced.

Q#26) On the MX6, once initiated, a gas-related alarm will:

- A) Remain on for 10 seconds;
- B) Remain on while the alarm condition is present;
- C) Remain on until the instrument is reset;
- D) Turn off once the alarm is acknowledged.

Q#27) The MX6 Low-level audio gas alarm is a:

- A) High frequency with short delays;
- B) Continuous claxon;
- C) Low frequency beeps with a long delay;
- D) Vibration only.

Q#28) As part of the Technician team apparatus checks, ____ discounts will be assessed for each deficiency not corrected.

- A) 1
- B) 5
- C) 10
- D) 15

Q#29) Sucking or blowing on valves with one's mouth while making technician team apparatus checks, will be assessed _____ point discount for each infraction.

- A) 15
- B) 10
- C) 5
- D) 3

Q#30) During the technician team apparatus checks when a deficiencies are encountered the technician team must:

- A) Record any and all deficiencies;
- B) Properly correct;
- C) Call out to the judge;
- D) All of the above.

**2019 Southwestern Regional Mine Rescue Contest
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Written Test Answers – Team Trainer Competition**

- A#1) D) Module 2; Page 3; Paragraph 1.
- A#2) A) Module 1; Page 14; Paragraph 8.
- A#3) D) Module 3; Page 8; Paragraph 5.
- A#4) C) Module 4; Page 5; Paragraph 2.
- A#5) B) Module 5; Page 13; Paragraph 1
- A#6) D) Module 7; Page 14; Paragraph 2
- A#7) D) Brady 10th Ed., Chapter 3, Page 48
- A#8) B) Brady 10th Ed., Chapter 4, Page 57
- A#9) D) Brady 10th Ed., Chapter 12, Page 221
- A#10) D) Brady 10th Ed., Chapter 13, Page 240
- A#11) A) Brady 10th Ed., Chapter 18, Page 370
- A#12) D) Brady 10th Ed., Chapter 19, Page 392
- A#13) D) Part 49.2(c)
- A#14) C) Part 49.8(a)
- A#15) D) Part 49.3 and 49.4
- A#16) B) Part 49.7(a)
- A#17) A) Part 49.8(d)
- A#18) D) Part 49.8(b)(1)
- A#19) C) 2019 – 2020 Metal and Nonmetal Mine Rescue Contest Rules Page 5; Rule #12
- A#20) D) 2019 – 2020 Metal and Nonmetal Mine Rescue Contest Rules Page 11; Rule #8
- A#21) C) 2019 – 2020 Metal and Nonmetal Mine Rescue Contest Rules Page 24; Paragraph 3
- A#22) D) 2019 – 2020 Metal and Nonmetal Mine Rescue Contest Rules Page 33; Paragraph 3
- A#23) B) 2019 – 2020 Metal and Nonmetal Mine Rescue Contest Rules Page 96; Rule #5
- A#24) C) 2019 – 2020 Metal and Nonmetal Mine Rescue Contest Rules Page 70; Rule #11
- A#25) A) MX6 iBird Op’s Guide (ED 17; Aug 10, 2018) Pg.3; last Warning.
- A#26) B) MX6 iBird Op’s Guide (ED 17; Aug 10, 2018) Pg.19; 2nd paragraph.
- A#27) C) MX6 iBird Op’s Guide (ED 17; Aug 10, 2018) Pg.6; Audio Indicator.
- A#28) B) 2019 – 2020 Metal and Nonmetal Mine Rescue Contest Rules Page 73; Rule #9.
- A#29) B) 2019 – 2020 Metal and Nonmetal Mine Rescue Contest Rules Page 73; Rule #11
- A#30) D) 2019 – 2020 Metal and Nonmetal Mine Rescue Contest Rules Page 72; Rule #3.