

2012 Metal/Nonmetal National Mine Rescue Contest

Technician Team Competition – Written Test (Dräger BG-4)

ANSWER KEY

Answer	Location	Reference
1. B.	Pg. 3 (false)	iTX (rev 6) - 1 st ; item; MX6 (rev 3) - 6 th item
2. B.	Pg. 3 (false)	iTX (rev 6) - 2 nd item; and MX6 (rev 3) - 7 th item
3. B.	Pg. 3 (false)	iTX (rev 6) - 4 th item; and MX6 (rev 3) - 9 th item states “Silicone compound “not silica, which is sand.
4. B.	Pg. 3 (false)	ITX Pg. 3 and MX6 Pg. 3
5. B.	Pg. 23 iTX and 26 17 MX6 (false)	Industrial Scientific recommends that a functional (“bump”) test be performed on every instrument <u>prior</u> to each days use iTx (rev 6) manual MX6 iBrid Manual (rev 6)
6. B.	Pg. 5 iTX and Pg. 6 MX6 (false)	iTX instruction manual (rev 6) and MX6 iBrid (rev 4)
7. B.	Pg. 27 iTX and Pg. 11 MX6 (false)	Manual (15 minutes), rev 6 for MX6 on Pg. 11 of manual rev 3 (10 minutes)
8. E.	Pg. 25 (none of the above)	iTX on Pg. 25, rev 6 & slide 30 and MX6 on slide 14 of on-line Calibration Training Tutorial Video
9. E.	Pg. 8 & 11 (none of the above)	iTX Pg. 8 gas reading mode, MX6 manual Pg. 11
10. E.	Pg. 30 (only B & C) 2010 MNM National Mine Rescue Contest rule book	iTX (rev 6) manual & slide 19 of on-line Features Training Tutorial Video
11. B.	Pg. 3-3 (False) under no circumstances	MSHA Publication 3027
12. B.	Pg. 3-5 (False) from high to low	MSHA Publication 3027
13. C.	Pg. 3-16 (120 to 2,000)	MSHA Publication 3027
14. C.	Pg. 2-16 (200 to 300 times)	MSHA Publication 3027
15. A.	Pg. 2-55 (12.5 to 74.2%)	MSHA Publication 3027
16. C.	Pg. 2-3 (Four)	MSHA Publication 3027
17. B.	Pg. 2-15 (Complete)	MSHA Publication 3027
18. D.	Pg. 2-21 (0.04 to 0.05%)	MSHA Publication 3027
19. B.	Pg. 2-17 (.02 to .07)	MSHA Publication 3027
20. B.	Pg. 2-7 (increase)	MSHA Publication 3027
21. B.	Pg. 26 (must not open)	BG4 Service Manual (rev “O”)
22. B.	Pg. 25 (-10 mbar)	BG4 Service Manual (rev “O”)
23. B.	Pg. 27 (2 and 5 mbar)	BG4 Service Manual (rev “O”)
24. B.	Pg. 28 (Two times)	BG4 Service Manual (rev “O”)
25. C.	Pg. 29 (0.1 and 2.5 mbar)	BG4 Service Manual (rev “O”)
26. D.	Pg. 53 (90%)	BG4 Service Manual (rev “O”)
27. D.	Pg. 42 (4-hours)	BG4 Service Manual (rev “O”)
28. B.	Pg. 32 (5 times)	BG4 Service Manual (rev “O”)
29. B.	Pg. 29 (2600 to 3000 psi)	BG4 Service Manual (rev “O”)
30. B.	Pg. 46 (.1)	BG4 Service Manual (rev “O”)