2012 KCA Pre-shift Contest – Written Examination

Put the correct letter ( A, B, or C) in the blank.

1. Ventilation shall be sufficient to keep methane percentage in the return of any split to not more than\_\_\_\_\_\_\_\_%.
2. 1 b. 1.5 c. 2\*
3. Mantrips shall be operated at a safe speed, in no event at a speed in excess of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mph.
4. 10 b. 12\* c.15

3. Caches of self rescuers shall be examined at least once each \_\_\_\_\_\_\_\_\_\_\_.

a. day b. week\* c. month

4. The volume of gas increases as barometric pressure decreases.

a. true\* b. false

5. Blackdamp is an atmosphere in which oxygen content is less than \_\_\_\_ %.

a. 19.5 b.12 c.16\*

6. What minimum space shall be provided for the passage of personnel near

stationary electrical equipment ?

a.2.5 feet b. 3 feet\* c. 3.5 feet

7. The 2nd fundamental of first aid is \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. care of dislocations & fractures

b. restore breathing

c. control bleeding\*

8. A broken bone should be straightened, if possible, before splinting.

a. true b. false\*

9. Class \_\_\_\_\_ fires involve flammable liquids.

a. A b. B\* c. C

10. Which gas should be absent from air samples before an attempt is made to unseal a mine fire

a. Methane b. Carbon Dioxide c. Carbon Monoxide\*

11. The minimum amount of oxygen allowed in mine air is \_\_\_\_\_\_\_\_\_\_ %.

a. 21 b. 19.5\* c. 16

12. For ventilation purposes, total mine resistance can be determined where?

a. last open crosscut b. return split c. at the fan\*

13. What is the most Nitrogen Dioxide (NO2) that can be present in mine air ?

a. 10ppm b. 25ppm c. 3ppm\*

14. Carbon Monoxide is a non-explosive gas.

a. true b. false\*

15. The approximate ignition temperature of methane is \_\_\_\_\_\_\_\_\_\_\_\_.

a. 935 degrees b. 655 degrees c. 1200 degrees\*

16. No person who works in close proximity to diesel equipment shall be

permitted to work more than a \_\_\_\_\_ hour continuous shift.

a.8 b. 10\* c. 12

17. Any opening that is more than \_\_\_\_\_ feet wide shall be supported by a combination of roof bolts and conventional support(or longer bolts).

a. 16 b. 18 c.20\*

18. \_\_\_\_\_\_\_ \_\_\_\_\_\_\_ means a person certified by the commissioner to perform particular work duties in & around a coal mine.

a. qualified person b. experienced miner c. certified person\*

19. Mandoors shall be installed on the intake & return at intervals not to exceed \_\_\_\_\_\_\_\_\_\_ feet when the height of the coal is above 48”.

a. 300 b.500\* c. 600

20. The mine foreman or his assistants shall visit & examine each working place in the mine at least every \_\_\_\_\_ hours while miners are at work.

a.2 b. 4\* c. 8

21. At least \_\_\_\_\_ EMT(s) or MET(s) are required on every production shift.

a. 2\* b. 1 c. 3

22. Low voltage means up to & including \_\_\_\_\_ volts.

a.220 b. 440 c. 660\*

23. Mine fans must be offset at least \_\_\_\_\_ feet to 1 side or above the opening.

a. 10 b. 15\* c. 20

24. \_\_\_\_\_\_ \_\_\_\_\_ is air that has ventilated all working places on the split.

a. Intake air b. Neutral air c. Return air\*

25. While equipment is operated at the face, an examination for gas will be made at not more than \_\_\_\_\_ minute intervals.

a.15 b. 20\* c.25