Pennsylvania Mining Law
Questions and Answers

Section 332

181. The load center shall be equipped with a _____ means on the incoming or high voltage circuit?

a. positive disconnect
b. plug
c. switch
d. circuit breaker

Section 331

182. When hanging high voltage cable, the distance between supports shall not exceed _____ feet?

a. 8
b. 10
c. 20
d. 15

183. When high voltage cable is hung in the haulage entry containing trolley wire, the cable shall be at least _____ from the trolley wire?

a. 2 feet
b. 10 feet
c. 12 inches
d. 6 inches

Section 330

184. The neutral or primary ground bed must be located at least _____ feet from station ground at its closest point?

a. 5
b. 10
c. 20
d. 25

185. Ground bed resistance shall be measured at least every _____ and appropriate action taken?

a. week
b. month
c. year
d. six months

Section 340

186. High voltage insulated gloves, sleeves, and other insulated personal protective equipment must be rated for _____ volts?

a. 7000
b. 7500
c. 8000
d. 8500

187. High voltage insulated gloves, sleeves, and other insulated personal protective equipment must be electrically tested how often?

a. weekly
b. every 6 months
c. yearly
d. daily

Section 336

188. High voltage motor and shearer circuits must be provided with instantaneous ground fault protection set at not more than _____ of an ampere?

a. 0.125
b. 1.25
c. 12.5
d. 125

Section 334

189. High voltage resistance grounded systems shall _____?

a. Have ground wire monitors to continually monitor continuity of grounding circuits
b. Have shut offs installed
c. Be 10 feet from other cables
d. None of the above

Section 333

190. What will cause a breaker to trip?

a. overload
b. phase fault
c. ground fault
d. all of the above

191. How close can a distribution center be to the face?

a. last open crosscut
b. 200 feet
c. 150 feet
d. 300 feet

Section 338

192. At what locations do high voltage long-wall cables need to be guarded?

a. where individuals regularly work or travel over or under the cables
b. where cables are hung from the roof
c. the entire length of cable
d. they need not be guarded

Section 313

193. All electric cables constantly kept in rooms or pillars or other work areas, shall be carried on suitable supports to within _____ feet of the face of each work area.

a. 500
b. 150
c. 1000
d. 70

194. All other wires, except _____, shall be kept on the same side of the roadway as the trolley wire?

a. high, medium or low voltage
b. telephone, shotfire, and signal wires
c. fiber optic and fire protection
d. block light, CO

Section 311

195. Circuit breakers used to protect feeder circuits shall be set to trip when the current exceeds by more than ____% of the rated capacity of the feeder?

a. 10
b. 20
c. 25
d. 50

Section 326

196. Trolley hangers shall not be more than _____ feet apart?

a. 20
b. 25
c. 24
d. 27

197. Switches and circuit breakers shall be provided on haulage roads to de-energize all trolleys at intervals not to exceed _____ feet?

a. 1000
b. 1500
c. 2000
d. 2500

Section 323

198. In no case shall the potential used in a trolley system, be higher than _____ volts.

a. 300
b. 480
c. 600
d. 1000

Section 323

199. Disconnecting switches shall be installed underground in all main direct current power circuits, within _____ feet of the bottom of shafts, bore holes, or other places where main power circuits enter the mine?

a. 200
b. 300
c. 400
d. 500

Section 321

200. Telephone service or equivalent 2-way communication, shall be provided in all mines between the surface and section, if the section is more than _____ feet from the main portal?

a. 1000
b. 2000
c. 1500
d. 750

Section 316

201. At what methane level shall a methane monitor produce a warning signal?

a. 0.5%
b. 1.0%
c. 1.5%
d. 2.0%

Section 316

202. At what methane level shall a methane monitor automatically deenergize electrical equipment or diesel powered equipment?

a. 0.5%
b. 1.0%
c. 1.5%
d. 2.0%

203. No electrically operated equipment shall be taken inby the last open crosscut if methane is detected in the amount of _____% or greater?

a. 0.5%
b. 1.0%
c. 1.5%
d. 2.0%

204. No electrically operated equipment shall be in use for a period longer than _____ minutes without a gas test?

a. 15
b. 20
c. 30
d. 10

Section 314

205. All storage battery equipment and charging stations, shall be designed, operated and ventilated so _____.

a. gas will be ventilated to the track entry
b. gas from the batteries will be safely diluted
c. the gas will not come in contact with trolley wire

206. Storage battery charging stations shall be _____.

a. only used on a coal producing shift
b. be examined weekly
c. on a separate split of air

Section 316

207. Trailing cables on equipment without a cable reel, shall have no temporary splices within _____ feet of the machine, before the machine is operated on the following shift.

a. 10
b. 20
c. 25
d. 50

208. Methane monitors shall be calibrated with a known air/methane mixture every _____ days.

a. 7
b. 10
c. 15
d. 31

Section 231

141. The maximum distance driven between entries to establish ventilation is _____ feet.

a. 100
b. 200
c. 250
d. 300

Section 320

142. Electric lamps used in face areas shall be installed in _____ enclosures.

a. Airtight
b. Explosion proof
c. Water proof

Section 323

143. What is the highest voltage allowed for a trolley system?

a. 300
b. 600
c. 400
d. 500

Section 326

144. Trolley hangers shall be no more than _____ feet apart.

a. 10
b. 24
c. 30
d. 15

Section 249

145. How often shall cages and elevators be inspected?

a. Every 24 hours
b. Each shift
c. Weekly
d. Monthly

Section 106

146. Who approves electrical equipment, machinery, materials, methods and plans used in the mine?

a. Superintendent
b. Department
c. Operator
d. Mine electrician