Section	Question	A	B	C	D	E	F	Correct
Section 104	Face take-ups define the limits of mining in all face areas in advance of the last station spad. Face take-ups and lateral take-ups in the face area are not to exceed a distance greater than _____ feet from the last survey station spad. (Section 104)	100	250	300	500			C
Section 104	All flame-resistant cables used underground shall have the approval number embossed or indented on the jacket at intervals not to exceed _____. (Section 104)	6 feet	10 feet	12 feet	15 feet			C
Section 214	The mine foreman's responsibilities for drainage apply whenever any working place in a mine approaches within _____ of abandoned workings, as shown by surveys certified by a registered engineer or surveyor. (Section 214)	250 feet	100 feet	50 feet	25 feet			C
Section 224	As a general rule, the operator or superintendent of each mine shall cause to be made by a registered mining engineer or registered professional surveyor an accurate, professional quality map of the mine, on a scale of not less than _____ feet to the inch. (Section 224)	200	400	500	1,000			A
Section 224	A survey station spad is required to be within _____ feet of the deepest penetration of the final faces of each mining section, butt or room. (Section 224)	200	300	400	500			B
Section 224	Check survey stations shall be advanced to within _____ feet of the deepest penetration of all mains, submains, sections and butts. Check survey stations shall be advanced to within _____ feet of the deepest penetration of all rooms. (Section 224)	200, 500	300, 500	200, 600	300, 600			D

Section 230	Tests for methane concentrations under Section 230 shall be made at least 12 inches from the roof, face, ribs and floor. (Section 230)	12 inches	ten inches	eight inches	six inches	A
Section 237	The ventilation of a mine that extends more than _____ feet underground and is opened after the effective date of this section shall be produced by a mechanically operated fan or fans. The fan or fans shall be kept in continuous operation unless written permission to do otherwise is granted by the department. (Section 237)	100	200	400	500	B
Section 244	Explosives and detonators stored underground shall be Located at least _____ from roadways and power wires in a well-rock-dusted location protected from falls of roof. (Section 244)	10 feet	15 feet	25 feet	50 feet	C
Section 244	Explosives boxes or magazines shall be kept at least _____ feet from the faces and out of the direct line of blasting and shall be installed outby the last permanent stopping and on intake air. (Section 244)	200	400	100	300	D
Section 245	Blasting cables shall be well-insulated and shall be at least _____ in length to permit individuals authorized to fire shots to get in a safe place out of the line of blasting. (Section 245)	50 feet	75 feet	100 feet	125 feet	D
Section 246	If explosives and detonators are transported in the same explosives car or in the same special container, they shall be separated by at least _____ of hardwood partition or the equivalent. (Section 246)	ten inches	six inches	four inches	two inches	C

Section 249	Cage Requirements - The ropes shall be securely attached to the sides of the drum of every machine that is used for lowering and hoisting individuals or material into and out of the mine, and the flanges shall have a clearance of not less than _____ when the whole of the rope is wound on the drum. (Section 249)	four inches	five inches	six inches	two inches	A
Section 259	All conveyor entries shall be provided with a minimum width and height of not less than four feet for travel and, in conveyor entries in which track is installed, the minimum amount of clearance width shall not be less than _____, which clearance width shall be continuous throughout the entry. (Section 259)	two and one-half feet	one and one-half feet	36 inches	24 inches	A
Section 273	At each wooden door through which power lines pass, there shall be one portable fire extinguisher or 240 pounds of rock dust within _____ of the door on the intake air side. (Section 273)	10 feet	15 feet	25 feet	50 feet	C
Section 273	At a mine producing 300 tons of coal or more per shift, there shall be readily available at least _____ handsaws and _____ claw hammers at locations not exceeding two miles from each working section. (Section 273)	three, two	three, four	two, three	four, three	C
Section 273	At a mine producing 300 tons of coal or more per shift, there shall be readily available at least _____ board feet of brattice boards at locations not exceeding two miles from each working section. (Section 273)	500	1,000	250	2,000	B
Section 273	Under Section 273, a portable high-pressure rock-dusting machine shall be fitted with at least _____ feet of hose and supplied with at least _____ bags of rock dust. (Section 273)	100, 60	250, 240	100, 240	250, 60	D

Section 273	At a mine producing 300 tons of coal or more per shift, emergency materials shall be readily available at locations not exceeding _____ from each working section. (Section 273)	two miles	five miles	500 feet	1,000 feet	A
Section 273	As a part of the deluge-type water spray system, two or more branch lines of nozzles shall be installed. The maximum distance between nozzles shall not exceed _____ feet. (Section 273)	six	five	eight	four	C
Section 274	Shaft, slope and drift distances: unless exception to this rule is granted by the Department, the distance between shafts shall be not less than _____ feet. The distance between the openings to the surface of slopes, and the distance between drifts, shall be not less than _____ feet. (Section 274)	200, 100	100, 200	200, 50	100, 50	C
Section 274	In shafts less than 100 feet deep, used by employees for the purpose of ingress to or egress from the mine, steps shall have of an average tread of _____ inches and a rise of _____ inches. (Section 274)	twelve, nine	ten, nine	twelve, ten	ten, eight	B
Section 274	Where the angle of descent of the slope exceeds 15 degrees and its length from the mouth of the opening exceeds 1,000 feet, the employees shall be lowered into and hoisted from the mine at a speed not to exceed _____ miles per hour. (Section 274)	four	six	eight	three	B
Section 281	Every shaft permanently abandoned shall be filled for its entire depth. The fill shall extend from the bottom of the coal seam to a height of _____ with incombustible material. (Section 281)	25 feet	50 feet	100 feet	250 feet	B

Section 281	Every slope, drift or tunnel permanently taken out of service shall be filled for a distance of _____ with incombustible material. (Section 281)	25 feet	50 feet	100 feet	250 feet	A
Section 284	It shall be the duty of the operator or superintendent of a mine to provide a suitable building, _____ of the mine, for the use of employees of the mine to wash and change clothes. (Section 284)	next to the main entrance	near the main entrance	convenient to the main entrance	adjacent to the main entrance	C
Section 302	Voltage up to 660 volts nominal is considered to be _____. (Section 302)	Low Voltage	Medium Voltage	High Voltage	inadequate	A
Section 325	On main haulage roads, both rails shall be bonded, except welded track, and cross bonds shall be placed at points not to exceed _____ feet apart. (Section 325)	100	200	250	500	B
Section 327	Safety ground and negative connections for temporary or permanent installations shall be made at two separate points, at least _____ inches apart, and shall be made directly to the track, a bond or the system ground. (Section 327)	two	four	six	eight	C
Section 330	An outdoor substation shall include a neutral or primary ground bed located at least _____ away from the station ground at its closest point and to which shall be connected only the inby or load end of the neutral current limiting resistor. (Section 330)	25 feet	50 feet	100 feet	250 feet	A
Section 331	High-voltage cables shall be installed only in intake airways. When suspended, the distance between supports shall not exceed _____, and they shall be so placed that they do not damage the cable jacket. (Section 331)	10 feet	15 feet	20 feet	25 feet	C

Section 332	Load centers shall be located on intake air only. Load centers shall not be located beyond the last open crosscut or located closer than _____ feet along the air route to pillar workings. (Section 332)	100	200	250	500	C
Section 405	Underground diesel fuel storage facilities shall be located at least _____ feet from shafts, slopes, shops, and explosives magazines, and at least _____ feet from trolley wires, haulage ways, power cables and electric equipment not necessary for the operation of the storage facilities. (Section 405)	50, 25	25, 100	100, 25	100, 50	C
Section 406	Unburied diesel fuel pipelines shall not exceed _____ feet in length and shall have shutoff valves located at each end of the unburied pipeline. (Section 406)	200	300	250	500	B
Section 701	A safety zone is established beneath and adjacent to every stream, river and natural or artificial body of water in this Commonwealth that is sufficiently large to constitute a hazard to mining in the opinion and discretion of the department. In the case of a stream or river, the safety zone shall extend horizontally _____ feet from the high-water mark of each bank. (Section 701)	100	200	250	500	B