Sr. No	NOS Code	PC Code	Question	Option A	Option B	Option C	Option D	Answer	Level- E/M/H
1	MIN/N0449	PC1	What is roof bolting	It is a type of steel support	It increases the strength of strata	It is a type of rock reinforcement	All three	D	М
2		PC1	Theory of roof bolting	Suspension	Beam	Кеу	All three	D	Н
3		PC2	In beam theory	Layers of thin roof rocks clamps together	Immediate layer is held by stronger layer	both 'A' and 'B'	none	A	М
4		PC2	In suspension theory	Immediate layer are held by stronger upper bolt	Bolt stiches layers	Both 'A' and 'B'	none	A	М
5		PC2	In key theory	Fractured roof is keyed	Bolt reinforcement the layers	layer is suspended with upper layer	all three	А	М
6		PC2	Effect of bearing plate	Prevents roof layer from sagging	Creates upwards pressure	prevents grout coming out	all three	D	Н
7		PC2	Cement grout bolt is	Roof bolt with cement filled hole	Cement injected in roof	cement filled in cracks	none	А	E
8		PC2	Freshly exposed roof is	Roof exposed after blasting in development	Roof in depillaring Goaf	both 'A' and 'B'	none	A	М
9		PC2	W-strap is used	To bind the layers	Supplements the roof bolts	suspends the layer	all three	В	М
10		PC2	Roof bolt is a type	Positive support	Reinforcement type support	both 'A' and 'B'	none	В	Н
11		PC2	Distance between bolts in a row ,distance between row to row, distance of bolt from side is called	Hole pattern	Hole design	both 'A' and 'B'	none	A	Н
12		PC2	Bolt is installed	Within 2 hours of roof exposer	Within 3 hours of roof exposer	Immediately after roof exposer	none	С	М
13		PC2	RMR is	Rock Mass Rating	Rock Movement Rate	Rock Method Rating	none	Α	Е

14	PC2	Cement used in roof bolting	quick setting type	can set in watery hole	Delay setting	any type	A	E
15	PC2	Bearing plate is	plane type	dome shape	both 'A' and 'B'	any type	В	Н
16	PC2	The central holes should bein gallery	slainting	vertical	any direction	all three	В	М
17	PC2	Side holes of both sides should be	vertical	any direction	slanting at an angle 45º	slanting at an angle 15º	С	М
18	PC2	Hole die should bemore than dia of steel rod/bolt	5mm	6mm	3mm	2mm	С	М
19	PC2	Roof bolting with cement capsule should take load ofin 30mm	5 tonne	8 tonne	3 tonne	10 tonne	С	М
	PC2	The load tested at interval of	30min	2hrs	24hrs	all three	D	М
	PC2	The load ofin 2hours	5t	8t	3t	10t	С	М
	PC2	The bolt should take load oftonne in 24 hours	8T	8T-10T	ЗТ	10T	А	E
	PC3	What percentage of bolt should be tested	5%	15.00%	10%	12%	С	М
	PC3	Length of roof bolt should not be less than	2.0 mts	1.5 mts	2.5 mts	none of these	В	М
	PC3	Bolt should be Steel	plain	ribbed	both A and B	none	В	М
	PC3	Threaded length of bolt shouldat DNE end	200mm	100mm	150mm	250mm	С	М
	PC3	Thickness of bearing plate (minimum)	5mm	8mm	10mm	2mm	В	М
	PC3	Size of bearing plate	200mmX200mm	100mmX100mm	150mmX150mm	250mmX250mm	С	М
	PC3	Shape of tighting nut	square	hexagonal	both A and B	none	В	E
	PC3	Length of tighting nut	20mm	15mm	30mm	10mm	С	М
	PC3	Clearance ofmm with rod	2.5mm	3mm	5mm	none	В	Μ

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		PC3	Roof bolt is called support	passive	neutral	active	none	С	Н
		PC3	What is anchorage testing	Testing of cement capsule	testing of bearing plate	testing of nut	testing of anchorage	D	Н
		PC3	Percentage of bolts selected	In fixed pattern	in grid pattern	randomly	any method	С	Н
		PC3	Destructive testing is	testing of bolt to 20 T	testing of bold to load at 3 T	testing of bolt till it fail	none	С	М
		PC3	Percentage bolt tested for destructive testing	5%	10%	1%	2%	С	М
		РСЗ	Testing of bolt is necessary	Because to check bolt quality	bearing plate quality	because bolt fails without giving indication	none	С	Н
2	MIN/N0450	PC1	Before starting roof bolting operation checking ofdone	roof condition	Roof dressing	Temporary supporting	all three	D	E
		PC1	Before starting drilling operation drillers should put on	dust mask	hand gloves	goggles	all three	D	М
		PC1	Drilling should be	dry drilling	wet drilling	both A and B	none	В	М
		PC1	Water is used for	cooling of drill bit	dust controle	both A and B	none	В	Н
		PC1	For dust reduction	drill bit should be of proper shape	drill bit should be sharp	both A and B	none	С	Н
		PC1	Water supply should be started	before drilling	after drilling	simultaneously	none	А	Н
		PC1	Water supply and drilling operation should be preferably	independent	intercoupled	any type	none of these	В	н
		PC1	Resign capsule are suitable in	dry hole	watery hole	both dry and watery hole	none	С	Н
		PC1	Resin grouted bolt takesload than cement grouted bolting isthan cement grouted roof bolting	less	equal	more	any method	С	М

PC1	Resin taketime set than cement grouted bolt	more	less	equal	any method	В	М
PC1	Life of resin goulted roof bolting isthan cement grouted roof bolting	lesser	equal	larger	none	С	М
PC3	RMR is less than 20 roof is considered	strong	very poor	good	none of these	В	М
PC3	When RMR value is between 60 to 80 roof stability is	poor	fail	very poor	good	D	М
PC13	Poor notion of roof is when RMR value is between	20 to40	60 to 80	less than 20	40 to 60	А	М
РСЗ	Method of support shall be designed on the basis of	face progress	drilling	RMR of roof	none	С	Н
PC3	Freshly exposed roof shall be supported immediately upon exposer	to load the coal	to prevent roof sagging	both A and B	none of these	В	Н
PC3	Roof bolt should be free of oil/grease to	ensure proper gripping in hole	proper holding	proper handling	none	А	Н
PC3	Roof bolt are installed as soon as possible after roof is exposed but not later thanhours	1	3	4	2	D	М
PC4	Roof bolting is under the supervision of	roof bolter	overman	manager of the mine	any person	В	E
PC4	Pattern of roof bolting is based on	scientific study	system of work	classification of strata	all three	D	Н
PC4	Responsibility of framing strata control and monitoring plans	owner	agent	manager	all three	D	Н
PC4	Before starting the drilling operation operator should check	water pressure	condition of machine	drill bit sharpness	all three	D	E

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		PC13	Any defect noticed shall be informed to	overman	fitter	foreman	all three	D	E
		PC12	Person responsible for marking the hole position	overman	survor	operator	all three	D	Н
		PC12	Person responsible to ensure place of drilling safe	mining sirdar	asst manager	overman	all three	D	н
		PC12	If roof is not good what action taken before starting drilling	Temporary support erected before drilling	drilling to continue	mining sirdar should be present	none	A	E
		PC12	In case of resin bolting roof bolter should ensure	holes are free from water	resin capsule is churned properly	both A and B	none	В	М
		PC12	Roof bolter should place the machine on	solid floor	on debris	any floor	on platform	А	М
		PC12	Proper placing of machine is responsibility of	driller helper	fitter	roof bolter	all three	С	E
		PC13	Roof bolter should follow theprovided by manager	code of practice	safe operating procedure	any written instruction	all three	D	E
			The proper drilling and quantity of bolting can be achieved by	training on job	instruction	direction	none	A	М
			At the end of shift roof bolter should record details inregister	shift	log book	overman	forman	В	М
71	MIN/N0901		What is IME	Initial medical examination	Internal mining examination	Internal medical examination	None	А	М
72			What is PME	Personal medical examination	Periodical medical examination	Periodical mining examination	None	В	М
73			As per mine rule period of PME is	At every 5 year interval	At every 3yrs interval	Every year	None	А	М
74			AS PER 11th NATIONAL CONFERENCE RECOMONDATION PME IS DONE	At every 2 years	Every year	At every 5 years	At every 3 years	D	Н

75		What is notified disease	Occupational disease	Industrial disease	Disease notified by central government in official gazette	None	С	н
76	PC1	Pneumoconiosis is a	Notified disease	Industrial disease	A kind of fever	None	А	E
77		Which of these are not notified disease	Pneumoconiosis	Noise induced hearing loss	Silicosis	Skin disease	D	М
78	PC1	Person detected containing pneumoconiosis should be	Placed to work in non-dusty atmosphere	Continued to work at same place	Provided with dust mask	None	A	М
79	PC1	Pneumoconiosis occurs due to	Coal dust	Water	Humidity	High temperature	А	E
80		Coal dust should not be more thanmg/m3 in air borne resirable dust where free silica present is less than 5%	3	5	2	1.5	С	н
81	PC1	What is PPE	Personal positive expression	Public private enterprise	Personal protective equipment	None	С	E
82		Which of these is not PPE	Helmet	Shoe	Gloves	Reviving apparatus	D	Н
83	PC1	What is sop	Safety of persons	Safe operating procedure	Safety of people	None	В	E
84		What is cop	Code of practice	Code of persons	Code of presentation	None	Α	E
85	PC4	Accidents occur due to	Unsafe act	Unsafe condition	Unsafe procedure	All three	D	М
86		Fire requires these elements	Oxygen	Fuel	Heat	All three	D	Н
87	PC4	Class a fire involves	Carbonaceous solids	Inflammable liquids	Combustible gases	All three	А	Н
88		Solid carbonaceous material fire is dealt with	Water	Sand	Soda acid extinguisher	All three	D	н
89		Liquid combustible material fire is dealt with	Soda acid type	Water	Form type	None	С	н

90	PC5	(90)all type firefighting systems must be approved by	DGMS	Manager of mine	Safety officer of mines	Anyone these	А	М
91		All firefighting system, equipment's materials shall be examined by competent person once in every	3month	6month	2month	One month	D	н
92	PC8	What is misfire	Blasting operation	Exploder failure	Failure to explode entire charge	All three	С	М
93		Misfire is due to	Faulty operation	Faulty exloder	Bad quality detonator	Any of these	D	М
94	PC9	Nitrous fumes are produced in blasting of	NG EXP	Ammonium nitrate exp	Any exp.	None	А	Н
95	PC9	Nitrus fumes are tested by	Methanometer	Toximeter	Hygrometer	Multi gas detector	D	Н
96	PC10	Worker should not be allowed without appropriate ear protection in area of noise level	85dB(A) OR MORE	90dB(A) OR MORE	115dB(A) OR MORE	140dB(A) OR MORE	С	н
97	PC10	No worker should be allows an area where the level exceeds	90dB(A)	115dB(A)	140dB(A)	None	С	Н
98	PC10	Helmet are to be for use in mines	DGMS APPROVED	Any type	Is marked	None	А	М
99	PC11	Mining shoes should be provided at interval not more thanmonths(as per cmr.2017)	1 YEAR	3MONTHS	6MONTHS	None of these	С	E
100	PC11	Manufacturers safety instructions should be included while preparation of	SOP	СОР	MAINTANANCE SCHEDULE	Any of these	D	E