

Sr. No.	PC Code	NOS Code	Question	Option A	Option B	Option C	Option D	Ans. (A/B/C/D)	Difficulty Level, Easy /Med./ High.
1	PC1	N 0443	Mine compressor are broadly classied as	Reciprocating compressor	Rotary compressor	Both A & B	None of these	C	Easy
2			Now a days compressors used in mines are	Piston - Cylinder type	Screw operated type	Centrifugal type	All of these	D	Easy
3			Mining compressors are operated by	Electric motor	Diesel engine	Both A & B	None of these	C	Easy
4			While starting the compressor which valve is normally kept open	Suction valve	Delivery valve	Both A & B	None of these	A	Easy
5			While shutting off the compressor which valve is normally close first	Suction valve	Delivery valve	Both A & B	None of these	B	Easy
6			In big capacity reciprocating compressor, the air is normally compressed in	single stage	Two stage	Multistage	None of these	B	Med
7			In reciprocating compressor, the compressed air temperature before admitting in to second stage is	increased	decreased	no change in temp.	None of these	B	Med
8			In screw compressor, the air is compressed through	Cylinder	Piston	Male and female screw	All of these	C	Med
9	PC2		Reciprocating compressor cycle comprises of	Air suction	Air compression	Air Delivery	All of these	D	Easy
10			Air temperature after it is compressed	Increases	Decreases	No change	None of these	A	Med
11			Unit of compressed air quantity measurment is	M3/Min	Cu. Ft./Min	Both A & B	None of these	C	Easy
12			Compressed air pressure is measured in	Kg/Cm2	Lbs/Sq. inch	Bar	All of these	D	Easy
13	PC3		In Reciprocating compressor the oil lubrication is for	Piston	Cylinder	BothA & B	None of these	C	Med
14			In screw compressor,	only air is admited in screw chamber	only oil is admitted in screw chamber	Both Air & oil are admited in screw chamber	None of these	C	Med
15			In compressor the inter cooler & after cooler is provided	to lower the compressed air temp.	to lower the oil temp.	to lower the water temp.	All of these	A	Med

16			In screw compressor, the air and oil are seperated through	Water seperator	Air oil seperater	Both A & B	None of these	B	Med
17			In reciprocating compressor the water jacketing is done to	reduce compressor body temperature	reduce air temperature	reduce motor temperature	None of these	A	Med
18			Intercooler is provided in	Screw compressor	Centrifugal compressor	Reciprocating compressor	All of these	C	Med
19	PC4		Compressed air pressure is controlled through	Pressure switch	Pressure Gauge	Temperature Gauge	None of these	A	Med
20			Safety valve is fitted to restrict the	Compressed air temperature	Compressed air pressure exceeding the set value	Both A & B	None of these	B	Easy
21	PC5		Safety valve is tested in	Every shift	Only weekly	Only monthly	None of these	A	Easy
22			Important parameters to be monitored in compressor are	Compressed air pressure	Compressed air temperature	water /oil temperature	All of these	D	Easy
23	PC6		Check for the	oil level in compressor	Water level in compressor	Air level in compressor	None of these	A	Med
24			Compressor and motor coupling halves	fitted only on motor	fitted only on compressor	fitted on motor & compressor shaft	None of these	C	Med
25			At the start of the shift the compressor is checked for	Loose fastners	oil leakage	water leakage	All of these	D	Easy
26	PC1	N 0444	Air receiver is provided with	Air pressure Gauge	Sfety valve	Drain valve	All of these	D	Easy
27			Compressor is provided with Air receiver to	Cool the compressed air	heat the compressed air	store the compressed air	All of these	C	Easy
28	PC2		These are the primary checks before starting the compressor	Nut bolts checking	Checks for any cracks	Motor compressor coupling checking	All of these	D	Med
29			Before starting the compressor check for	Oil level	Air inlet filter	water level for cooling	All of these	D	Med

30			These are the basic parts of the screw compressor maintenance	Air filter	oil filter	Airoi separator	All of these	D	Med
31	PC3		Parameters to be watch for the compressor are	Compressure air pressure	compressed air temperature	Both A & B	None of these	C	Med
32			If oil level is low in screw compressor, Air oil temperature will be	low	high	no effect	None of these	B	Med
33	PC4		Suction piping in the compressor is done from	Air filter to Suction of the compressor	Air filter to delivery of the compressor	Air filter to receiver of the compressor	None of these	A	Easy
34			Compressor delivery piing is from	compressor outlet to After cooler	After cooler to Air receiver	Both A & B	None of these	C	Med
35			Piping is checked for	pipe damage	Pipe gasket damage	Jointing fastners	All of these	D	Med
36	PC5		If compressor motor coupling is not alligned then	Coupling bushes may damage	Coupling fastners may damage	Both A & B	None of these	C	Med
37			Coupling Guard is provided to ensure for	Safety in case of coupling faisure	to facilitate easy fitting of coupling	to facilitate easy fitting of motor	None of these	A	Med
38			Motor & compressor coupling halves are	touching each other	slight gap is maintained for axial tollerence	Slight gap is not required	None of these	B	Med
39	PC6		Before starting the compressor, common electrical check are	Voltage	Current	Availability of all three phase	Both A & C	D	Easy
40			Normal Three Phase volt rating in mines	110 volts	230 Volts	440 Volts	All of these	C	Easy
41			If electric cable connection is loose	sparking will takes place	Compressor will trip	Both A & B	None of these	C	Med
42			Star delta starter is	operate in star then goes to Delta mode	operate in delta then goes to star mode	Simultaneously operates in star & Delta	None of these	A	Med
43			D.O.L. electric motoe starter means	Duel starter	Oil type starter	Direct on line starter	None of these	C	Med
44	PC7		Diesel engine is fitted with	Oil Filter	Air Filter	Both A & B	None of these	C	Easy

45			Before starting Diesel Engine , check	Oil Level	Diesel Level	Radiator Coolant Level	All of these	D	Easy
46			Engine Radiator	Lubricates engine	Cleans engine	Cools Engine	Heats engine	C	Easy
47			Engine oil filters are cleaned	Daily	Weekly	Monthly	None of these	D	Med
48			Air Filter improves the quality of	Engine suction air	Engine Exhaust	Cleans the Engine oil	None of these	A	Easy
49			Engine oil is replaced	Weekly	Monthly	As per Manufacturer Guide line	None of these		Med
50			Daily Engine Checking includes	Air filter	Oil/Diesel/Radiator coolant levels	Both A & B	None of these	C	Easy
51			Oil pressure of the Diesel Engines	Increases with engine RPM	Decreases with Engine RpM	No change	None of these	A	Med
52	PC8		Fire may take place in Air receiver due to	Water accumulation	burnt Oil Accumulation	Compressed oil accumulation	None of these	D	Easy
53			Compressor may overheat and damage due to	Adequate water cooling	Inadequate water cooling	cooling water through jacketing is stopped	Both B & C	D	Med
54	PC9		For operating the compressor, check the availability of	Compressor oil	Engine oil	Diesel	all of these	D	Easy
55			Cooling water is required for	Compressor body cooling	compressor intercooler	compressor after cooler	all of these	D	Easy
56	PC10		Electrically operated compressor may be started	Bare handed	Safety shoes put on	with rubber hand gloves	Both B & C	D	Med
57			Reciprocating compressors are started with	Suction valve closed	Delivery valve open	Delivery valve closed	None of these	C	Med
58	PC11		Before starting the compressor, Daily	Clean the air filter	Cleaning not required	Replace the filter	None of these	A	Easy
59			Now a days, Oil filters are	cleaned in oil	Cleaned with air jet	only replaced	None of these	C	Med

60	PC12		Conducting housekeeping in compressor room includes	Collecting garbage	Cleaning the floor for any water / oil traces	Keeping the things in their proper places	All of these	D	Easy
61			If the oil is spilled on the compressor floor, this may lead to	stoppage of compressor	fire hazard	inefficient operation of the compressor	None of these	B	Med
62	PC13		Compressed air pressure setting be done	0.5 Kg/cm2 lower than the actual requirement at work place	same as the actual requirement at work place	0.5 Kg/cm2 more than the actual requirement at work place	None of these	C	Med
63			Compressed air pressure	decreases with the length of travel	increases with the length of travel	No effect of length of travel	None of these	A	Med
64	PC1	N 0445	Initially operate the compressor	in full speed	in idle speed	in no load condition	None of these	C	Med
65			On no load condition set the compressor	Air pressure	Air Temp.	Oil Temp	None of these	A	Easy
66			Safety valve of the compressor will blow if	Oil temp. crosses the set value	Air temp. crosses the set value	Air pressure crosses the set value	None of these	C	Med
67	PC2		If the requirement of compressed air exceeds the compressor capacity then	Compressor will operate in load condition only	Compressor will operate on load / Unload mode	No effect of air requirement on pressure	None of these	A	Easy
68			If the requirement of compressed air is much below the compressor capacity then	Compressor will operate in load condition only	Compressor will operate on load / Unload mode	No effect of air requirement on pressure	None of these	B	Easy
69	PC3		Parameters to be observed during compressor operation	Loading unloading pressure	Air receiver Air pressure	Both A & B	None of these	C	Med
70			Electrical parameters to be checked	Voltage in all three phase	Motor Current in full load	Both A & B	None of these	C	Med
71	PC4		When the Delivery valve is opened, the motor will draw	Less current	More current	No effect on Motor current	None of these	B	Easy

72			Motor will be overloaded when compressor started with	Closed Delivery valve	Opened Delivery valve	No effect on Motor	None of these	B	Med
73			If the compressor rating is 7 Kg/cm ² then the desirable working pressure is	Less than 7 Kg/cm ²	more than 7 Kg/cm ²	Both of these	None of these	A	Easy
74	PC6		Log book entries shall cover these electrical parameters	Line Voltage	Motor load current	Motor unload current	All of these	D	Easy
75			Log book entries shall cover these parameters	Air Pressure	Oil pressure	Air Temp.	All of these	D	Easy
76			If the motor is under loaded	Pump may not be discharging water	Pump may be discharging less water	Both A & B	None of these	C	Med
77	PC7		Electrically operated reciprocating compressor is put on by	Operating the Star Delta starter	Operating the Delta star starter	may be operated by both	None of these	A	Med
78			Diesel engine operated reciprocating compressor is put on by	Starting the engine with compressor on load condition	Starting the engine with compressor cyl. Sunction valve open	May be operated in both A & B	None of these	B	Med
79	PC8		Compressor outlet pressure is regulated when	Before the Air is discharged to work place	After the Air is discharged to work place	In both A & B	None of these	A	Med
80			Compressor is always set for two pressures	start & stop	Less pressure & more pressure	Load pressure & unload pressure	All of these	C	med
81	PC9		If the lubrication of the compressor is not properly adjusted then	No effection on compressor	It will not produce compressed air	Compressor will overheat	None of these	C	med
82			If the air filter is not cleaned / replaced	More quantity of air will be produced	less quantity of air will be produced	No effect of Air filter on air flow	All of these	B	Easy
83			If the oil filter is not replaced in time	Compressor parts will wear fast	Compressor will not work	No wear on the parts	None of these	A	Easy

84	PC10		For any problem with the compressor operation, immediately inform to	Mine manager	Mine foreman	Mechanical foreman	Both B & C	D	Easy
85			For minor repairs on compressor	stop the compressor and wait for mine foreman	stop the compressor and wait for mechanical foreman	stop the compressor, Inform to supervisor and try to repair	All of these	C	Easy
86	PC11		If the ventilation is not proper in the compressor room then	Temperature of compressor body parts will not heat	Temperature of compressor body parts will over heat	Compressor will trip	Motor will trip	B	Easy
87			Ventilation of the compressor house is improved by fitting	Table fans	Ceiling fans	Exhaust fans	None of these	C	Easy
88	PC12		Sound vibrations are to checked for compressor	At base frame	On Bearing Housing	On stater Body	All of these	D	Easy
89			If the vibration values at the Bearing housing of the motor are more	Bearing are in good condition	Bearings need preventive maintenance	Bearing need Greasing	Both B&C	D	Med
90	PC13		If the compressor is giving frequent trouble even after breakdown maintenance then	Inform mine manager	Inform Maintenance Engineer	Call for an expert personnel from Manufacturer	All of these	D	Med
91	PC1	N 0901	Compressor Operator should wear	Safety shoes	Safety Helmet	Hand Gloves	All of these	D	Easy
92			Compressor Operator should wear Safety Goggle	For Dust protection	For sound proction	For eye protection	None of these	C	Easy
93			Compressor Operator should wear Nose mask	For Dust protection	For sound proction	For eye protection	None of these	A	Easy
94			Compressor Operator should wear Ear Plugs	For Dust protection	For sound proction	For eye protection	None of these	B	Easy
95			Compressor Operator should wear Safety Helmet	For Head protection	For sound proction	For eye protection	None of these	A	Easy
96	PC2		Compressor material is always handeled by	Hand	Manually	In a rubber wheel trolley	None of these	C	Easy

97			Handling the Compressor parts in the pump station becomes easy by	By providing small overhead crane	making temporary chain Pulley block arrangement	Both A & b	None of these	C	Med
98	PC3		Who is to be informed first for any accident	Foreman	Engineer	Manager	All of these	A	Easy
99			Who is to be informed for compressor breakdown	Mechanical Foreman	Mine Foreman	Mechanical fitter	All of these	D	Easy
100	PC4		In case of fire	Leave the work place	use the fire Extinguisher and start extinguishing the fire	Inform to Engineer	Inform to Manager	B	Easy
101			Compressor operator should be trained in Fire extinguisher operation	yes	not required	Not to attain fire hazards	None of these	A	Easy
102	PC5		Which type of Fire Extinguisher is used in Electrical fires	CO2 type	Foam type	Dry chemical powder	Both A & C	D	Difficult
103			Which type of Fire Extinguisher is used in general fires like wood , paper	CO2 type	Foam type	Dry chemical powder	Both B & C	D	Difficult
104			Which type of Fire Extinguisher is used in Flammable oils / Liquids	CO2 type	Foam type	Dry chemical powder	All of these	D	Difficult
105	PC6		Compressor operator should allow to enter the pump station	Foreman	Electrician	Mechanical fitter	All of these	D	Easy
106			Compressor operator should allow the Personnel Who had put on	Safety shoes	No safety shoes	Safety helmet	Both A & C	D	Easy
107	PC7		Compressor spares/material may be stored with Diesel & oil	Keep seperately	Yes	Diesel may be kept	None of these	A	Easy
108			Hazardous Material should be handled with	Due care	handle as normal material	Both A & B	None of these	A	Med
109	PC8		Who handles the misfire	Mine Manager	Engineer	Pump man	Blaster	D	Easy
110			Misfire takes place	Due to Drilling	Due to face conditions	Due to loose rock	None of these	D	Med

111			Misfire is mainly due to	Drilling problem	Mucking problem	Mistakes in Explosive loading	None of these	C	Easy
112			Misfire is noticed	Immediately after blasting	some time after Blasting	Only after fume clearance	None of these	C	Med
113	PC9		Fumes in face accumalets after Blasting	Always	Some times	Never	None of these	A	Easy
114			Fumes will clear in face due to	Improper Ventilation	Proper ventilation	No ventilation	None of these	B	Easy
115			What improves the fume clearance in face	water jet	Air jet	Auxiliary ventilation fan	None of these	C	Med
116			Workmen are allowed to enter the face	Immediately after blasting	Only after fume clearance	After dealing misfire if any	Both B & C	D	Difficult
117	PC10		Compressor operator should wear helmet	During compressor starting	While shutting off the compressor	Throught the shift	None of these	C	Easy
118			Compressor operator should allow personnel with	Ear plugs	with helmet	with safety shoes	All of these	D	Easy
119	PC11		Maintain the compressor logsheet	As per Manufacturer's instruction	on a plain Register	inform verbally to next compressor operator	Log sheet not maintained	A	Med
120			For any compressor operation problem also refer Manufacturer's Operation / Maintenance manual	Not required	yes	will resolve the problem easily	Both B & C	D	Med