

Subject Code : 502 ▼

Subject Code	Exam Date	Q Id	Questions	Answer Key
502	13-02-2020	71	<p>Author of "Around the World in Eighty Days" is</p> <p>(A) William Shakespeare</p> <p>(B) Richard</p> <p>(C) U.S.Naipaul</p> <p>(D) Jules Verne</p>	(D)
502	13-02-2020	72	<p>What is the full form of "CSIR"?</p> <p>(A) Council of Scientific and Industrial Research</p> <p>(B) Center for Science and Industrial Research</p> <p>(C) Center for Share and Investment Ratio</p> <p>(D) Council for Scientific and Informational Research</p>	(A)
502	13-02-2020	73	<p>The mountain range which stretches from Gujarat in West to Delhi in the North is</p> <p>(A) Aravallis</p> <p>(B) Vindhyas</p> <p>(C) Satpuras</p> <p>(D) Kaimur range</p>	(A)
502	13-02-2020	74	<p>The system of dual citizenship exists in</p> <p>(A) USA</p> <p>(B) France</p> <p>(C) India</p> <p>(D) UK</p>	Question Withdrawn

502	13-02-2020	75	<p>The technique of cartography in geography refers to :</p> <p>(A) Geo-informatics</p> <p>(B) field survey methods</p> <p>(C) skill of map making</p> <p>(D) statistical techniques</p>	(C)
502	13-02-2020	76	<p>What is the correct meaning of the idiom ' to put the cart before the horse'?</p> <p>(A) to put things in the wrong order</p> <p>(B) to praise one self</p> <p>(C) stop working</p> <p>(D) to work hard</p>	(A)
502	13-02-2020	77	<p>Fill in the blanks with appropriate article.</p> <p>He gifted her ___ tulips from Amsterdam.</p> <p>(A) a</p> <p>(B) an</p> <p>(C) the</p> <p>(D) no article</p>	(D)
502	13-02-2020	78	<p>Select the antonym of the given word. "shallow"</p> <p>(A) of little depth</p> <p>(B) slight</p> <p>(C) surface</p> <p>(D) in-depth</p>	(D)
502	13-02-2020	79	<p>Select the synonym of the given word. "aftermath"</p> <p>(A) devastation</p> <p>(B) disharmony</p>	(D)

			(C) posterity (D) consequence	
502	13-02-2020	80	Fill in the blanks with appropriate word. He congratulated his friend ----- the latter's success. (A) for (B) about (C) on (D) with	(C)
502	13-02-2020	81	In a row of trees, a tree is 7th from left end and 14th from right end. How many tree are there in the row ? (A) 18 (B) 19 (C) 20 (D) 21	(C)
502	13-02-2020	82	Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ? a_bbc_aab_cca_bbcc (A) bacb (B) acba (C) caba (D) abba	(B)
502	13-02-2020	83	Blueberries cost more than strawberries. Blueberries cost less than raspberries. Raspberries cost more than strawberries and blueberries. If the first two statements are true, the third statement is	(A)

			<p>(A) TRUE</p> <p>(B) FALSE</p> <p>(C) UNCERTAIN</p> <p>(D) None of the options</p>	
502	13-02-2020	84	<p>If OUGHT is coded as ABCDE in a certain language. How can TOUGH be coded in the same language?</p> <p>(A) ABCDE</p> <p>(B) BCDEA</p> <p>(C) CDEAB</p> <p>(D) EABCD</p>	(D)
502	13-02-2020	85	<p>If a DOVE costs Rs. 92, what would a PIGEON cost ?</p> <p>(A) Rs. 112</p> <p>(B) Rs. 122</p> <p>(C) Rs.132</p> <p>(D) Rs.142</p>	(C)
502	13-02-2020	86	<p>Shan is 55 years old, Sthian is 5 years junior to Shan and 6 years senior to Balan. The youngest brother of Balan is Devan and he is 7 years junior to him. So what is the age difference between Devan and Shan ?</p> <p>(A) 15 years</p> <p>(B) 18 years</p> <p>(C) 13 years</p> <p>(D) 7 years</p>	(B)
502	13-02-2020	87	<p>A train running at the speed of 60 km/hr crosses a pole in 9 seconds. What is the length of the train?</p> <p>(A) 120m</p>	(D)

			(B) 180m (C) 324m (D) 150m	
502	13-02-2020	88	If 192 mangoes can be bought for Rs.15, how many mangoes can be bought for Rs.5 (A) 65 (B) 75 (C) 62 (D) 64	(D)
502	13-02-2020	89	Three fourth of a certain number is 60. Half of that number is (A) 20 (B) 30 (C) 40 (D) 80	(C)
502	13-02-2020	90	A bag contains 15 one rupee coins, 25 two rupee coins and 10 five rupee coins. If a coin is selected at random from the bag, then the probability of not selecting a one rupee coin is (A) 0.3 (B) 0.7 (C) 0.25 (D) 0.2	(B)
502	13-02-2020	91	Shielding gas used for TIG welding process (A) CO ₂ (B) Argon (C) Oxygen	(B)

			(D) Nitrogen	
502	13-02-2020	92	<p>Typical joining method of copper pipes below 50 NB</p> <p>(A) Welding</p> <p>(B) TIG welding</p> <p>(C) Brazing</p> <p>(D) Brazing and welding</p>	(C)
502	13-02-2020	93	<p>Galvanisation process is</p> <p>(A) Iron coating</p> <p>(B) Copper coating</p> <p>(C) Zinc coating</p> <p>(D) Aluminum coating</p>	(C)
502	13-02-2020	94	<p>What is the most commonly used material for Gasket?</p> <p>(A) Compressed Asbestos Fibre</p> <p>(B) Rubber</p> <p>(C) Polythene</p> <p>(D) MS sheet</p>	(A)
502	13-02-2020	95	<p>What type of weld represents a triangular shaped symbol?</p> <p>(A) fillet weld</p> <p>(B) bevel groove</p> <p>(C) flare groove</p> <p>(D) V-groove</p>	(A)
502	13-02-2020	96	<p>Engine piston are usually made of aluminium alloy because it</p> <p>(A) is lighter</p>	(A)

			<p>(B) wear is less</p> <p>(C) absorbs shocks</p> <p>(D) is stronger</p>	
502	13-02-2020	97	<p>What should be the radius of long radius elbow ?</p> <p>(A) 1.5D</p> <p>(B) 2D</p> <p>(C) 1D</p> <p>(D) 3D</p>	(A)
502	13-02-2020	98	<p>NB in pipe means</p> <p>(A) Normal Bore</p> <p>(B) Natural Base</p> <p>(C) Nominal Bore</p> <p>(D) Natural Bore</p>	(C)
502	13-02-2020	99	<p>Aeroplanes employ the following type of compressor</p> <p>(A) radial flow</p> <p>(B) axial flow</p> <p>(C) centrifugal flow</p> <p>(D) central flow</p>	(B)
502	13-02-2020	100	<p>What is meant by 'PWHT'?</p> <p>(A) Present weld heat treatment</p> <p>(B) Post weld heat treatment</p> <p>(C) Primary weld heat treatment</p> <p>(D) Primary weld humid treatment</p>	(B)
502	13-02-2020	101	<p>Which of the following is not counted among safety equipment?</p>	(D)

			<p>(A) Vacuum reliever</p> <p>(B) Alarms</p> <p>(C) Flashback arresters</p> <p>(D) Temperature reliever</p>	
502	13-02-2020	102	<p>What heat treatment is characterized by holding the part at the austenitizing temperature for some time and then slow cooling in the furnace?</p> <p>(A) Normalizing</p> <p>(B) Quenching</p> <p>(C) Annealing</p> <p>(D) Stress relief</p>	(C)
502	13-02-2020	103	<p>To maintain uniform homogeneous structure, ----- is done on some pipe after the welding is over</p> <p>(A) Post-heating</p> <p>(B) Pre-heating</p> <p>(C) Normalizing</p> <p>(D) Quenching</p>	(A)
502	13-02-2020	104	<p>The smooth finish flange is provided when gasket is provided</p> <p>(A) Non-metallic</p> <p>(B) metallic</p> <p>(C) Rubber</p> <p>(D) silica</p>	(B)
502	13-02-2020	105	<p>SMAW means</p> <p>(A) Shell Metal Arc Welding</p> <p>(B) Shielded Manual Arc Welding</p> <p>(C) Shielded Metal Arc Welding</p>	(C)

			(D) Shell Manual Arc Welding	
502	13-02-2020	106	<p>What is the basic difference between Pipe specification A106 Gr.A / Gr.B/ Gr.C?</p> <p>(A) Steel content</p> <p>(B) Silicon content</p> <p>(C) Carbon content</p> <p>(D) Air content</p>	(C)
502	13-02-2020	107	<p>Which American institute standard does piping engineer refer?</p> <p>(A) American Petroleum Institute (API)</p> <p>(B) American Society for Mechanical Engineers (ASME)</p> <p>(C) American Welding Society (AWS)</p> <p>(D) American Society for Testing and Materials (ASTM)</p>	(B)
502	13-02-2020	108	<p>RF Flange means</p> <p>(A) Raised face</p> <p>(B) Round face</p> <p>(C) Raised Flat</p> <p>(D) Round Flat</p>	(A)
502	13-02-2020	109	<p>Which of the following is non-destructive test?</p> <p>(A) tensile test</p> <p>(B) impact test</p> <p>(C) charpy test</p> <p>(D) radiography test</p>	(D)
502	13-02-2020	110	<p>Up to what temperature the carbon steel materials shall be used?</p>	(B)

			<p>(A) 625 deg C</p> <p>(B) 425 deg C</p> <p>(C) 900 deg C</p> <p>(D) 200 deg C</p>	
502	13-02-2020	111	<p>Steels are primarily designated according to</p> <p>(A) iron content</p> <p>(B) carbon content</p> <p>(C) alloying elements</p> <p>(D) tensile strength</p>	(C)
502	13-02-2020	112	<p>Which Electrode is called low hydrogen electrode?</p> <p>(A) E6013</p> <p>(B) E6018</p> <p>(C) E7018</p> <p>(D) E8018</p>	(C)
502	13-02-2020	113	<p>What are the Inputs required for stress analysis of a piping system?</p> <p>(A) Pipe Size</p> <p>(B) Fluid Temperature</p> <p>(C) Pipe Material</p> <p>(D) All of the options</p>	(D)
502	13-02-2020	114	<p>What is the potential load faced by pipes during normal operation?</p> <p>(A) Axial load</p> <p>(B) Bending load</p> <p>(C) Shear load</p> <p>(D) All of the options</p>	(D)

502	13-02-2020	115	<p>Which of the following materials has more shrinkage allowance?</p> <p>(A) cast iron</p> <p>(B) brass</p> <p>(C) lead</p> <p>(D) Aluminium alloy</p>	(C)
502	13-02-2020	116	<p>The pipe outside diameter _____ , when schedule increases</p> <p>(A) increases</p> <p>(B) decreases</p> <p>(C) will not change</p> <p>(D) degrades</p>	(C)
502	13-02-2020	117	<p>What is the ASME code followed for design of piping systems in Process piping (Refineries & Chemical Industries)?</p> <p>(A) B 31.1</p> <p>(B) B 31.3</p> <p>(C) B 31.5</p> <p>(D) B 31.9</p>	(B)
502	13-02-2020	118	<p>Which of these are self-operated valves?</p> <p>(A) Globe valve</p> <p>(B) Check valve</p> <p>(C) Ball valve</p> <p>(D) Gate valve</p>	(B)
502	13-02-2020	119	<p>Principle of 'Unit load' states that</p> <p>(A) one unit should be moved at a time</p> <p>(B) materials should be moved in lots</p>	(B)

			<p>(C) one unit to be moved every hour</p> <p>(D) All of the options</p>	
502	13-02-2020	120	<p>Which material is used for pipes which are in contact with milk or product?</p> <p>(A) Stainless steel</p> <p>(B) Rubber</p> <p>(C) Ceramic</p> <p>(D) Plastic</p>	(A)
502	13-02-2020	121	<p>What are the reasons causing pressure drop in hydraulic systems?</p> <p>i. Long length of pipe</p> <p>ii. Friction</p> <p>iii. Type of fluid</p> <p>iv. Losses in valves and bends</p> <p>(A) i and iv</p> <p>(B) Only i</p> <p>(C) ii and iii</p> <p>(D) i, ii, iii and iv</p>	(D)
502	13-02-2020	122	<p>Which of the following types is not fillet weld?</p> <p>(A) butt joint</p> <p>(B) lap joint</p> <p>(C) T-joint</p> <p>(D) Corner joint</p>	(A)
502	13-02-2020	123	<p>In resistance welding, two electrodes are made of</p> <p>(A) Aluminium</p> <p>(B) Copper</p> <p>(C) Iron</p>	(B)

			(D) Bronze	
502	13-02-2020	124	<p>Which one of the following instruments is used to measure accurately the angle of taper ?</p> <p>(A) bevel gauge</p> <p>(B) bevel protractor</p> <p>(C) vernier bevel protractor</p> <p>(D) taper gauge</p>	(C)
502	13-02-2020	125	<p>Which one of the following is used to separate the connection without disturbing the pipe line?</p> <p>(A) Union</p> <p>(B) Plug</p> <p>(C) Socket</p> <p>(D) Cross</p>	(A)
502	13-02-2020	126	<p>The swing check valve is used to control the flow of water by</p> <p>(A) Ball</p> <p>(B) Small hole</p> <p>(C) Flap</p> <p>(D) Opening guage</p>	(C)
502	13-02-2020	127	<p>Cast iron is used for manufacturing machine beds because</p> <p>(A) it can resist more compressive stress</p> <p>(B) it is heavy in weight</p> <p>(C) it is a cheaper metal</p> <p>(D) it is a brittle metal</p>	(A)
502	13-02-2020	128	<p>Gun metal is an alloy of copper with</p> <p>(A) lead and nickel</p>	(D)

			<p>(B) lead and zinc</p> <p>(C) zinc and nickel</p> <p>(D) tin and zinc</p>	
502	13-02-2020	129	<p>Which of the following valves is used to maintain pressure in the system?</p> <p>(A) Pneumatic control valve with variable-flow plug</p> <p>(B) Check valve</p> <p>(C) Manual control valve with variable flow plug</p> <p>(D) Pressure relief valve</p>	(D)
502	13-02-2020	130	<p>The pressure at any given point of a non-moving fluid is called</p> <p>(A) Gauge Pressure</p> <p>(B) Atmospheric Pressure</p> <p>(C) Differential Pressure</p> <p>(D) Hydrostatic Pressure</p>	(D)
502	13-02-2020	131	<p>The device used to measure the fluid pressure is</p> <p>(A) Hygrometer</p> <p>(B) Calorimeter</p> <p>(C) Manometer</p> <p>(D) Thermometer</p>	(C)
502	13-02-2020	132	<p>Define Viscosity?</p> <p>(A) Resistance to flow of an object</p> <p>(B) Resistance to flow of air</p> <p>(C) Resistance to flow of fluid</p> <p>(D) Resistance to flow of heat</p>	(C)

502	13-02-2020	133	<p>Pressure variation for compressible fluid is maximum for which kind of process?</p> <p>(A) Isothermal</p> <p>(B) Adiabatic</p> <p>(C) Quasi Static</p> <p>(D) Dynamic</p>	(A)
502	13-02-2020	134	<p>A simple U tube manometer connected to a pipe in which liquid is flowing with uniform speed will give which kind of pressure?</p> <p>(A) Absolute Pressure</p> <p>(B) Vacuum Pressure</p> <p>(C) Gauge Pressure</p> <p>(D) Relative Pressure</p>	(C)
502	13-02-2020	135	<p>Which of the following machines have the possibility of cavitation?</p> <p>(A) Reaction turbines and centrifugal pumps</p> <p>(B) Reaction turbines and reciprocating pumps</p> <p>(C) Impulse turbines and centrifugal pumps</p> <p>(D) Impulse turbines and reciprocating pumps</p>	(A)
502	13-02-2020	136	<p>The following extinguisher is suitable for cotton or other textile fire</p> <p>(A) Water</p> <p>(B) Soda acid</p> <p>(C) Foam</p> <p>(D) Dry chemicals</p>	(D)
502	13-02-2020	137	<p>To prevent the product flow in the wrong direction which of the following valve is used?</p> <p>(A) Ball valve</p>	(D)

			<p>(B) Butterfly valve</p> <p>(C) Gate Valve</p> <p>(D) Check valve</p>	
502	13-02-2020	138	<p>What is the type of welding defect caused due to poor deposition of weld rod?</p> <p>(A) Porosity</p> <p>(B) Undercut</p> <p>(C) Under fill</p> <p>(D) Crack</p>	(A)
502	13-02-2020	139	<p>Which welding process is used to join two thick plates in one single pass?</p> <p>(A) Oxy-acetylene welding</p> <p>(B) Gas tungsten arc welding (TIG)</p> <p>(C) Gas metal arc welding (MIG)</p> <p>(D) Electroslag welding</p>	(D)
502	13-02-2020	140	<p>Gate valve permits water flow in</p> <p>(A) Straight line</p> <p>(B) Angular</p> <p>(C) Right angle</p> <p>(D) Any direction</p>	(A)