

National Employability Assessment Test and Industry Readiness Program

for Diploma Engineers and Professionals | Winter – 2022

Discipline: Civil Engineering

Computer Based PAN India Examination held on 18.03.2023

Questions & Answers

(Published dtd. 29.03.2023)

PAPER STRUCTURE

Question Nos.	Sections & Topics		Marks
1 to 40	Section I : General Aptitude	<ul style="list-style-type: none">Quantitative AptitudeLogical ReasoningData InterpretationEnglish Communication	40
41 to 60	Section II : Basic Concepts	<ul style="list-style-type: none">General PhysicsGeneral ChemistryMechanicsEngineering Drawing	20
61 to 100	Section III : Technical Aptitude	<ul style="list-style-type: none">Civil Engineering	40
TOTAL			100

NOTE:

- Exam Duration: 3 Hours
- Total 100 no. of Questions of 1 Mark each with Negative Marking of $\frac{1}{4}$ Mark for every wrong answer
- Questions (Section wise) and respective Answer Options shuffled at Candidates' terminal

Question No. 1	In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs?			
Answer Options	A)	B)	C)	D)
	7	6.75	6.25	6.5
Right Option	C			

Question No. 2	Today is Monday. After 61 days, it will be:			
Answer Options	A)	B)	C)	D)
	Thursday	Saturday	Tuesday	Wednesday
Right Option	B			

Question No. 3	3 pumps working 8 hours a day, can empty a tank in 2 days. How many hours a day must 4 pumps work to empty the tank in 1 day?			
Answer Options	A)	B)	C)	D)
	9	10	12	11
Right Option	C			

Question No. 4	A man standing at a point P is watching the top of a tower, which makes an angle of elevation of 30° with the man's eye. The man walks some distance towards the tower to watch its top and the angle of the elevation becomes 60° . What is the distance between the base of the tower and the point P?			
Answer Options	A)	B)	C)	D)
	Data inadequate	8 units	12 units	43 units
Right Option	A			

Question No. 5	Find the largest 4-digit number, which gives the remainder 7 and 13 when divided by 11 and 17?			
Answer Options	A)	B)	C)	D)
	9900	9907	9807	None of these
Right Option	B			

Question No. 6	In a certain store, the profit is 320% of the cost. If the cost increases by 25% but the selling price remains constant, approximately what percentage of the selling price is the profit?			
Answer Options	A)	B)	C)	D)
	30%	100%	250%	70%
Right Option	D			

Question No. 7	A candidate who gets 20% marks fails by 10 marks but another candidate who gets 42% marks gets 12% more than the passing marks. Find the maximum marks.			
Answer Options	A)	B)	C)	D)
	75	68	37	100
Right Option	D			

Question No. 8	A sum of Rs. 12,500 amounts to Rs. 15,500 in 4 years at the rate of simple interest. What is the rate of interest?			
Answer Options	A)	B)	C)	D)
	6%	4%	5%	3%
Right Option	A			

Question No. 9	A train travelling at 48 kmph completely crosses another train having half its length and travelling in opposite direction at 42 kmph, in 12 seconds. It also passes a railway platform in 45 seconds. The length of the platform is			
Answer Options	A)	B)	C)	D)
	560 m	450 m	400 m	600 m
Right Option	C			

Question No. 10	In a shower, 5 cm of rain falls. The volume of water that falls on 1.5 hectares of ground is:			
Answer Options	A)	B)	C)	D)
	750 cu. m	75 cu. m	75000 cu. m	7500 cu. m
Right Option	A			

Question No. 11	A good way to figure out the relationship in a given question is to make up a sentence that describes the relationship between the first two words. Then, try to use the same sentence to find out which of the answer choices completes the same relationship with the third word. Cup is to coffee as bowl is to			
Answer Options	A)	B)	C)	D)
	Food	Spoon	Soup	Dish
Right Option	C			

Question No. 12	A student got twice as many sums wrong as he got right. If he attempted 48 sums in all, how many did he solve correctly?			
Answer Options	A)	B)	C)	D)
	12	16	18	24
Right Option	B			

Question No. 13	Choose the statement that is best supported by the information given in the question passage. In the 1966 Supreme Court decision <i>Miranda v. Arizona</i> , the court held that before the police can obtain statements from a person subjected to an interrogation, the person must be given a Miranda warning. This warning means that a person must be told that he or she has the right to remain silent during the police interrogation. Violation of this right means that any statement that the person makes is not admissible in a court hearing. This paragraph best supports the statement that			
Answer Options	A)	B)	C)	D)
	The police may no longer interrogate persons suspected of a crime unless a lawyer is present.	A Miranda warning must be given before a police interrogation can begin.	Police who do not warn persons of their Miranda rights are guilty of a crime.	The 1966 Supreme Court decision in <i>Miranda</i> should be reversed
Right Option	B			

Question No. 14	Here are some words translated from an artificial language. godabim means kidney stones romzbim means kidney beans romzbako means wax beans Which word could mean "wax statue"?			
Answer Options	A)	B)	C)	D)
	Godaromz	Lazbim	Romzpeo	Wasibako
Right Option	D			

Question No. 15	If A is the brother of B; B is the sister of C; and C is the father of D, how D is related to A?			
Answer Options	A)	B)	C)	D)
	Sister	Nephew	Cannot be determined	Brother
Right Option	C			

Question No. 16	Choose the word which is different from the rest.			
Answer Options	A)	B)	C)	D)
	Mandible	Sternum	Ulna	Pinna
Right Option	D			

Question No. 17	<p>In each question below is given a statement followed by three courses of action numbered I, II and III. You have to assume everything in the statement to be true, then decide which of the three given suggested courses of action logically follows for pursuing.</p> <p>Statement: Besides looks and appearances, it is also important to develop oneself from within.</p> <p>Courses of Action:</p> <p>I. One should not pay attention to fashion. II. One should pay attention to fashion. III. Books on self-development should be encouraged.</p>			
Answer Options	A)	B)	C)	D)
	Only II follows	Only III follows	Only I and III follow	Only I follows
Right Option	B			

Question No. 18	Arrange the words given below in a meaningful sequence. 1. Index 2. Contents 3. Title 4. Chapters 5. Introduction			
Answer Options	A)	B)	C)	D)
	3, 2, 5, 1, 4	3, 2, 5, 4, 1	2, 3, 4, 5, 1	5, 1, 4, 2, 3
Right Option	B			

Question No. 19	3, 10, 101, ?			
Answer Options	A)	B)	C)	D)
	10202	10201	10101	11012
Right Option	A			

Question No. 20	A disease always has			
Answer Options	A)	B)	C)	D)
	Cause	Cure	Patient	Germ
Right Option	A			

Question No. 21	<p>Question nos. 21 to 25:</p> <p>Splash.Inc produces fabric sold in rolls of 35 metres (units) for the wholesale textile market. The production manager at Splash.Inc has produced the following table to illustrate how the unit cost of their bestselling product falls as production increases. Total costs are derived by adding fixed costs and variable costs; the fixed costs used in the calculations total \$3m.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Scenario</th> <th>Total cost \$</th> <th>Unit cost \$</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>\$4,500,000</td> <td>\$18.00</td> </tr> <tr> <td>B</td> <td>\$5,400,000</td> <td>\$17.46</td> </tr> <tr> <td>C</td> <td>\$6,477,000</td> <td>\$16.94</td> </tr> <tr> <td>D</td> <td>\$7,776,000</td> <td>\$16.43</td> </tr> </tbody> </table> <p>How much are the variable costs in scenario B?</p>				Scenario	Total cost \$	Unit cost \$	A	\$4,500,000	\$18.00	B	\$5,400,000	\$17.46	C	\$6,477,000	\$16.94	D	\$7,776,000	\$16.43
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C	\$6,477,000	\$16.94																	
D	\$7,776,000	\$16.43																	
Answer Options	A)	B)	C)	D)															
	\$2,400,000	\$1,500,000	\$750,000	Cannot tell															
Right Option	A																		

Question No. 22	How many units are produced in scenario A?			
Answer Options	A)	B)	C)	D)
	2,500,000	250,000	1,250,000	225,000
Right Option	B			

Question No. 23	How many more units are produced in scenario C compared to scenario A?			
Answer Options	A)	B)	C)	D)
	131,000	132,349	139,274	136,998
Right Option	B			

Question No. 24	By what percentage did the total unit cost in scenario A increase in order to realize the unit cost reduction between scenarios A and B?			
Answer Options	A)	B)	C)	D)
	117%	120%	121%	119%
Right Option	B			

Question No. 25	Which suggested answer would provide the best estimate of the unit cost if variable costs were \$750,000?			
Answer Options	A)	B)	C)	D)
	$\$18 \times 97\% = \text{new unit price}$	$\text{New unit cost} \times 97\% = \18	$\$28 \times 103\% = \text{new unit price}$	$\text{New unit cost} \times 103\% = \18
Right Option	B			

Question No. 26	Question nos. 26 to 30: This following table is related to profit and loss and some values are missing. All the discounts are on the M.P. and the profit are on C.P.																																								
	<table border="1"> <thead> <tr> <th>Article</th> <th>Cost Price (Rs.)</th> <th>Profit (%)</th> <th>Marked Price (Rs.)</th> <th>Discount (%)</th> <th>Selling Price (Rs.)</th> </tr> </thead> <tbody> <tr> <td>Jeans</td> <td>2280</td> <td>---</td> <td>2720</td> <td>---</td> <td>---</td> </tr> <tr> <td>Shirt</td> <td>---</td> <td>30%</td> <td>---</td> <td>---</td> <td>---</td> </tr> <tr> <td>T-shirt</td> <td>---</td> <td>---</td> <td>2875</td> <td>14%</td> <td>---</td> </tr> <tr> <td>Suit</td> <td>2200</td> <td>---</td> <td>---</td> <td>---</td> <td>2640</td> </tr> <tr> <td>Saree</td> <td>---</td> <td>20%</td> <td>3800</td> <td>---</td> <td>---</td> </tr> </tbody> </table>					Article	Cost Price (Rs.)	Profit (%)	Marked Price (Rs.)	Discount (%)	Selling Price (Rs.)	Jeans	2280	---	2720	---	---	Shirt	---	30%	---	---	---	T-shirt	---	---	2875	14%	---	Suit	2200	---	---	---	2640	Saree	---	20%	3800	---	---
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	If the discount % and profit % of the Suit is same. Find out the M.P. of Suit?																																								
Answer Options	A)	B)	C)	D)																																					
	Rs. 2800	Rs. 2200	Rs. 3300	Rs. 2500																																					
Right Option	C																																								

Question No. 27	If the M.P. of jeans is Rs. 140 more than the C.P. of Shirt and the difference between M.P. and S.P. of Shirt is Rs. 780. Find the discount % of Shirt?			
Answer Options	A)	B)	C)	D)
	17.56%	18.86%	19.76%	20.46%
Right Option	B			

Question No. 28	C.P. of Suit is how much percentage less than the M.P. of Jeans?			
Answer Options	A)	B)	C)	D)
	19.10%	18.60%	21.20%	18.40%
Right Option	A			

Question No. 29	The ratio of discount % and profit % of the T-shirt is 7:5. Find CP. of T-shirt? (approximately)			
Answer Options	A)	B)	C)	D)
	Rs. 2552	Rs. 2248	Rs. 2398	Rs. 2285
Right Option	B			

Question No. 30	If the ratio of the C.P. of the Jeans and Saree is 4:5, find out the discount % of Saree?			
Answer Options	A)	B)	C)	D)
	15%	10%	12%	20%
Right Option	B			

Question No. 31	Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order. A: Only natural dyes are used in Kalamkari and it involves several steps. B: There are two distinctive styles of Kalamkari in India. C: They are the Sri kalahasti style and the Machlipatnam style. D: Kalamkari is a type of hand-painted or block-printed cotton textile, produced in the Indian States of Andhra Pradesh and Telangana.			
Answer Options	A)	B)	C)	D)
	DCBA	CBDA	ACBD	DABC
Right Option	D			

Question No. 32	What is the antonym of MOROSE			
Answer Options	A)	B)	C)	D)
	Overawed	Cherubic	Cheerful	Agitated
Right Option	C			

Question No. 33	What is the synonym of ERRONEOUS			
Answer Options	A)	B)	C)	D)
	Erased	Wrong	Weak	Enormous
Right Option	B			

Question No. 34	A frustrated old man, Bandi Thakur was never tired of (1)_____ the exploits of his ancestors, with a little (2) _____ he would lapse into a reminiscent mood, push back the loosely tied turban from his close-cropped grizzled hair and start a familiar story, improvising (3)_____ details which, to the mirth of his audience, always kept changing with every recounting.			
Answer Options	A)	B)	C)	D)
	(1) extolling, (2) advising, (3) rational	(1) extolling, (2) prompting, (3) fanciful	(1) criticizing, (2) prompting, (3) sincere	(1) invoking, (2) arguing, (3) fanciful
Right Option	B			

Question No. 35	Even my goalies and the policemen, who have arrested me or (1) _____ me as a prisoner from place to place have been kind to me, and much of the (2) _____ of conflict and the sting of goal-life has been (3) _____ because of this human touch.			
Answer Options	A)	B)	C)	D)
	(1) escorted, (2) affinity, (3) toned down	(1) abandoned, (2) bitterness, (3) pumped up	(1) safeguarded, (2) kindness, (3) egged on	(1) escorted, (2) bitterness, (3) toned down
Right Option	D			

Question No. 36	Attracted by the serenity of the evening, a friend and I lately went to one of the public walks near the city. Here we (1) _____ together for some time. Then my friend, stopping suddenly, (2) _____ by the elbow, and led me out of the public walk. I could perceive by the quickness of this (3) _____, and by his frequently looking behind, that he was attempting to avoid somebody who followed.			
Answer Options	A)	B)	C)	D)
	(1) sauntered, (2) trapped, (3) pace	(1) vamoosed, (2) relinquished, (3) hands	(1) sauntered, (2) caught, (3) gallop	(1) dance, (2) caught, (3) gallop
Right Option	C			

Question No. 37	It was not surprising that my own countrymen should treat me so, for I had gained a (1) _____ of notoriety and popularity among them. Even for Englishmen I was individual and not merely one of the (2) _____ and, I imagine the fact that I had received my education in England, brought me (3) _____			
Answer Options	A)	B)	C)	D)
	(1) measure, (2) dispersal, (3) at a remote position	(1) weight, (2) collection, (3) in juxtaposition with them	(1) ration, (2) mass, (3) nearer to them	(1) measure, (2) mass, (3) nearer to them
Right Option	D			

Question No. 38	Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order. A: A man on a bike had to ride on the pavement. B: When he tried to plunge onto the road, a car hit him. C: As the bus inched through the evening life, the traffic grew. D: There was no space on the road any more.			
Answer Options	A)	B)	C)	D)
	CDAB	CBAD	ADBC	DBCA
Right Option	A			

Question No. 39	Select the Antonym of OFFHAND			
Answer Options	A)	B)	C)	D)
	Appropriate	Premeditated	Universal	Accurate
Right Option	B			

Question No. 40	What is the synonym of SEIZE			
Answer Options	A)	B)	C)	D)
	Grasp	Length	Start	Release
Right Option	A			

Question No. 41	A pond of clear water appears less deep than it really is. This is due to			
Answer Options	A)	B)	C)	D)
	Dispersion	Refraction	The transparency of water	Reflection
Right Option	B			

Question No. 42	Friction can be reduced by changing from			
Answer Options	A)	B)	C)	D)
	Potential energy to kinetic energy	Sliding to rolling	Dynamic to static	Rolling to sliding
Right Option	B			

Question No. 43	Identify the vector quantity from the following			
Answer Options	A)	B)	C)	D)
	Angular momentum	Heat	Time	Work
Right Option	A			

Question No. 44	Intensity of sound at a point is _____ its distance from the source.			
Answer Options	A)	B)	C)	D)
	Directly proportional to square of	Inversely proportional to	Directly proportional to	Inversely proportional to square of
Right Option	D			

Question No. 45	Mercury is commonly used as a thermometric fluid rather than water because			
Answer Options	A)	B)	C)	D)
	Specific heat of mercury is more than water	Density of mercury is more than the water	Mercury has greater visibility than water	Specific heat of mercury is less than water
Right Option	C			

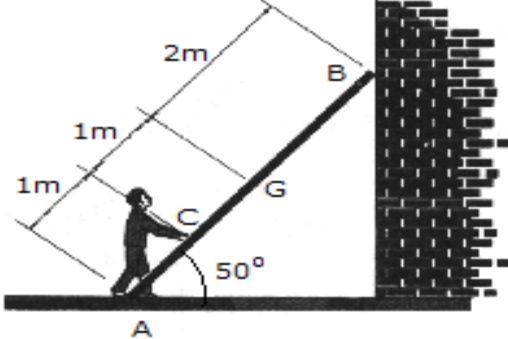
Question No. 46	Lime is sometimes applied to soil in order to			
Answer Options	A)	B)	C)	D)
	Make the soil more porous	Increase the alkalinity of the soil	Restore nitrates to the soil	Increase the acidity of the soil
Right Option	B			

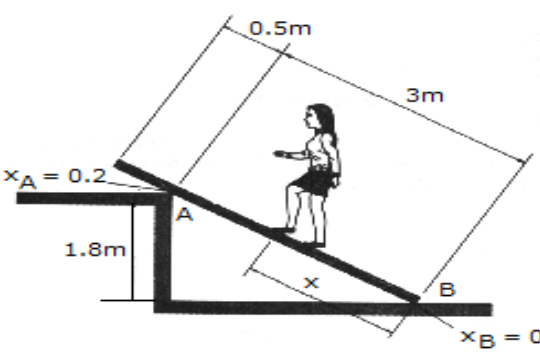
Question No. 47	Photo-oxidation is			
Answer Options	A)	B)	C)	D)
	Photo respiration	Photolysis	Light and oxygen induced breakdown	All of the above
Right Option	D			

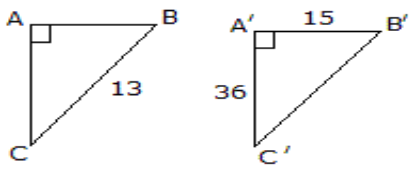
Question No. 48	The exhaled air contains			
Answer Options	A)	B)	C)	D)
	Carbon dioxide only	A mixture of carbon dioxide and nitrogen	A mixture which has more carbon dioxide than oxygen	A mixture of carbon dioxide, nitrogen and oxygen in which nitrogen has the highest percentage
Right Option	D			

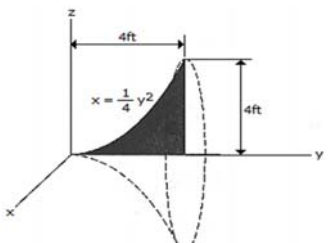
Question No. 49	The ionization energy of hydrogen atom in the ground state is x KJ. The energy required for an electron to jump from 2nd orbit to 3rd orbit is			
Answer Options	A)	B)	C)	D)
	$5x$	$7.2x$	$x/6$	$5x/36$
Right Option	D			

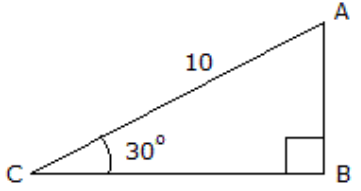
Question No. 50	The oldest rocks in the earth's crust were once molten, and came from deep inside the earth. The molten rock, called magma, spewed out in volcanic eruptions during the earth's early life and solidified into hard rock's called			
Answer Options	A)	B)	C)	D)
	Sedimentary rocks	Basalt	Granite	Igneous rocks
Right Option	D			

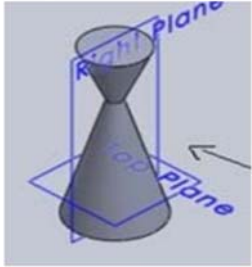
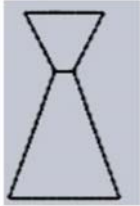
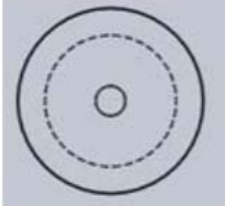
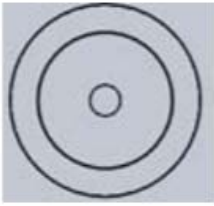
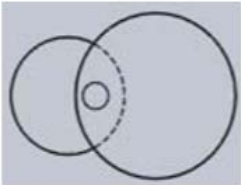
<p>Question No. 51</p>	 <p>A 17-kg ladder has a center of mass at G. If the coefficients of friction at A and B are $\mu_A = 0.3$ and $\mu_B = 0.2$, respectively, determine the smallest horizontal force that the man must exert of the ladder at point C in order to push the ladder forward.</p>			
<p>Answer Options</p>	<p>A) $F = 204 \text{ N}$</p>	<p>B) $F = 166.8 \text{ N}$</p>	<p>C) $F = 120.2 \text{ N}$</p>	<p>D) $F = 288 \text{ N}$</p>
<p>Right Option</p>	<p>A</p>			

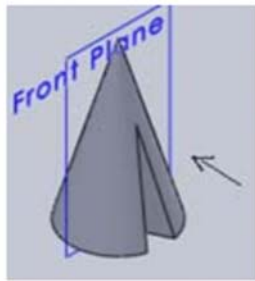

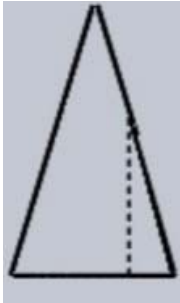

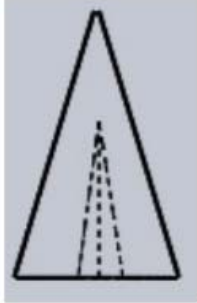
<p>Question No. 52</p>	 <p>A uniform beam has a mass of 18 kg and rests on two surfaces at points A and B. Determine the maximum distance x to which the girl can slowly walk up the beam before it begins to slip. The girl has a mass of 50 kg and walks up the beam with a constant velocity.</p>			
<p>Answer Options</p>	<p>A) $x = 0.678 \text{ m}$</p>	<p>B) $x = 0.712 \text{ m}$</p>	<p>C) $x = 0.508 \text{ m}$</p>	<p>D) $x = 1.005 \text{ m}$</p>
<p>Right Option</p>	<p>D</p>			

Question No. 53	 <p>Determine the length of side AB if the angle ABC is similar to the angle A'B'C':</p>			
Answer Options	A)	B)	C)	D)
	AB = 4	AB = 5	AB = 5.42	AB = 3
Right Option	B			

Question No. 54	 <p>Locate the center of gravity of the homogeneous "bell-shaped" volume formed by revolving the shaded area about the y axis.</p>			
Answer Options	A)	B)	C)	D)
	$\bar{y} = 3.33$ ft	$\bar{y} = 2.80$ ft	$\bar{y} = 3.20$ ft	$\bar{y} = 3.00$ ft
Right Option	A			

Question No. 55	 <p>Using the basic trigonomic functions, determine the length of side AB of the right triangle.</p>			
Answer Options	A)	B)	C)	D)
	h = 8.66	h = 11.55	h = 5.77	h = 5
Right Option	D			

<p>Question No. 56</p>	<p>Identify the top view for the below-given cone.</p> 			
<p>Answer Options</p>	<p>A)</p> 	<p>B)</p> 	<p>C)</p> 	<p>D)</p> 
<p>Right Option</p>	<p>C</p>			

<p>Question No. 57</p>	<p>Identify the front view of the following cone.</p> 			
<p>Answer Options</p>	<p>A)</p> 	<p>B)</p> 	<p>C)</p> 	<p>D)</p> 
<p>Right Option</p>	<p>A</p>			

Question No. 58	Curve of any shape can be drawn in perspective by enclosing it in a _____			
Answer Options	A)	B)	C)	D)
	Rectangle	Square	Cube	Cylinder
Right Option	A			

Question No. 59	A prism and cone got intersected at 90 degrees the line of intersection will be _____ and parallel to axis of _____			
Answer Options	A)	B)	C)	D)
	curve, cone	curve, prism	straight line, prism	straight line, cone
Right Option	B			

Question No. 60	The plane surfaces intersect in a _____ the line of intersection between two curved surfaces is _____ and between a plane surface and curved surfaces is a _____			
Answer Options	A)	B)	C)	D)
	curve, curve, curve	straight line, curve, straight line	straight line, curve, curve	straight line, straight line, curve
Right Option	C			

Question No. 61	After casting, an ordinary cement concrete on drying			
Answer Options	A)	B)	C)	D)
	Expands	Mix	Shrinks	None of these
Right Answer	C			

Question No. 62	Hardening of cement occurs at			
Answer Options	A)	B)	C)	D)
	Rapid rate during the first few days and afterwards it continues to increase at a decreased rate	Slow rate during the first few days and afterwards it continues to increase at a rapid rate	Uniform rate throughout its age	None of these
Right Answer	D			

Question No. 63	Proper proportioning of concrete, ensures			
Answer Options	A)	B)	C)	D)
	Desired strength and workability	Water tightness of the structure	Resistance to water	All the above
Right Answer	D			

Question No. 64	A roof which slopes in four directions, is called			
Answer Options	A)	B)	C)	D)
	Gambrel roof	Shed roof	Gable end roof	Hipped roof
Right Answer	D			

Question No. 65	A temporary rigid structure having platforms to enable masons to work at different stages of a building, is known as			
Answer Options	A)	B)	C)	D)
	Under pinning	Scaffolding	Dead shore	Raking shore
Right Answer	B			

Question No. 66	A wooden block hinged on post outside a door, is known as			
Answer Options	A)	B)	C)	D)
	Cleat	Stop	Horn	None of these
Right Answer	A			

Question No. 67	Exposed portions of vertical surface at right angles to the door or window frame, are known as			
Answer Options	A)	B)	C)	D)
	Lintels	Jambs	Reveals	Soffits
Right Answer	C			

Question No. 68	The columns of multi-storeyed buildings are designed to withstand the forces due to			
Answer Options	A)	B)	C)	D)
	Dead loads	Wind loads	Earthquakes	All of these
Right Answer	D			

Question No. 69	A piezometer opening in pipes measures			
Answer Options	A)	B)	C)	D)
	Static pressure	Negative static pressure	Total pressure	Velocity head
Right Answer	A			

Question No. 70	A pitot tube is used to measure			
Answer Options	A)	B)	C)	D)
	Pressure	Difference in pressure	Velocity of flow	None of these
Right Answer	C			

Question No. 71	A syphon is used			
Answer Options	A)	B)	C)	D)
	To connect water reservoirs at different levels intervened by a hill	To supply water to a town from higher level to lower level	To fill up a tank with water at higher level from a lower level	None of these
Right Answer	A			

Question No. 72	Cavitation is caused by			
Answer Options	A)	B)	C)	D)
	High velocity	Low velocity	Low pressure	High pressure
Right Answer	C			

Question No. 73	Liquids			
Answer Options	A)	B)	C)	D)
	Cannot be compressed	Do not occupy definite shape	Are not affected by change in pressure and temperature	None of these
Right Answer	B			

Question No. 74	Mercury is generally used in barometers because			
Answer Options	A)	B)	C)	D)
	Its vapour pressure is practically zero	The height of the barometer will be less	It is a best liquid	Both A and B
Right Answer	D			

Question No. 75	Unit of kinematic viscosity is			
Answer Options	A)	B)	C)	D)
	Newton sec/m ³	Newton sec/m ²	kg sec/m ²	m ² /sec
Right Answer	D			

Question No. 76	Hydrology helps in			
Answer Options	A)	B)	C)	D)
	Deciding the minimum reservoir capacity	Forecasting the availability of quantity of water at reservoir site	Predicting the effects on the river water level on completion of dams	All the above
Right Answer	D			

Question No. 77	If the grain size of soil increases			
Answer Options	A)	B)	C)	D)
	Surface area decreases	Specific retention decreases	Specific yield increases	All the above
Right Answer	D			

Question No. 78	Precipitation includes			
Answer Options	A)	B)	C)	D)
	Rain	Snow	Hail	All of these
Right Answer	D			

Question No. 79	Canals taken off from ice-fed perennial rivers, are known			
Answer Options	A)	B)	C)	D)
	Permanent canals	Perennial canals	Inundation canals	Ridge canals
Right Answer	B			

Question No. 80	Bitumen felt			
Answer Options	A)	B)	C)	D)
	Is used as water proofing material	Is used as damp proofing material	Is made from bitumen and hessian fibres	All the above
Right Answer	D			

Question No. 81	Chemically, marble is known as			
Answer Options	A)	B)	C)	D)
	Metamorphic rock	Calcareous rock	Argillaceous rock	Silicious rock
Right Answer	B			

Question No. 82	Galvanising means covering iron with a thin coat of			
Answer Options	A)	B)	C)	D)
	Tin	Coal Tar	Glaze	Zinc
Right Answer	D			

Question No. 83	Good quality stones must			
Answer Options	A)	B)	C)	D)
	Be durable	Be free from clay	Resist action of acids	All the above
Right Answer	D			

Question No. 84	Iron ore may contain			
Answer Options	A)	B)	C)	D)
	Silicon	Sulphur	Phosphorus and Maganese	All the above
Right Answer	D			

Question No. 85	Knots in timber are			
Answer Options	A)	B)	C)	D)
	Speckled strains	Splits radiating from the centre	Signs of branches cut off	Defects caused by crushing fibres
Right Answer	C			

Question No. 86	Lacquer paints			
Answer Options	A)	B)	C)	D)
	Are generally applied on structural steel	Are less durable as compared to enamel paints	Consist of resin and nitro-cellulose	None of these
Right Answer	D			

Question No. 87	Refractory bricks are used for			
Answer Options	A)	B)	C)	D)
	Retaining Walls	Piers	Combustion Chambers	Columns
Right Answer	C			

Question No. 88	Pick up the clay soil group which does not swell when wet from the following:			
Answer Options	A)	B)	C)	D)
	Vermiculite Group	Montmorillonite Group	Mite Group	Kaolinite Group
Right Answer	C			

Question No. 89	Perspective centre relates to			
Answer Options	A)	B)	C)	D)
	Parallel projection	Orthogonal projection	Central projection	None of these
Right Answer	C			

Question No. 90	Places having same latitude			
Answer Options	A)	B)	C)	D)
	Lie on the parallel of the latitude	Are equidistant from the nearer pole	Are equidistant from both the poles	All the above
Right Answer	D			

Question No. 91	Aerobic bacterias			
Answer Options	A)	B)	C)	D)
	Flourish in the presence of free oxygen	Consume organic matter as their food	Oxidise organic matter in sewage	All the above
Right Answer	D			

Question No. 92	Clogging of sewers, is caused due to			
Answer Options	A)	B)	C)	D)
	Low discharge	Greasy and oily matters	Domestic wastes thrown in manholes	All the above
Right Answer	D			

Question No. 93	Dry water flow in a combined sewer, is			
Answer Options	A)	B)	C)	D)
	Inclusive of domestic and industrial sewage but excludes storm water	Storm water	Industrial sewage	Domestic sewage
Right Answer	A			

Question No. 94	The effluent of a septic tank is			
Answer Options	A)	B)	C)	D)
	Fit for discharge into any open drain	Foul and contains dissolved and suspended solids	As good as that from a complete treatment	None of these
Right Answer	A			

Question No. 95	Acidity in water is caused due to			
Answer Options	A)	B)	C)	D)
	Mineral Acids	Free CO ₂	Iron Sulphate	All the above
Right Answer	D			

Question No. 96	Aeration of water is done to remove			
Answer Options	A)	B)	C)	D)
	Hardness	Colour	Bacterias	Odour
Right Answer	D			

Question No. 97	Asbestos pipes are			
Answer Options	A)	B)	C)	D)
	Light in weight and easy to transport	High flexible to accommodate deflection upto 12°	Very much smooth and hydraulically efficient	All the above
Right Answer	D			

Question No. 98	Sunlight			
Answer Options	A)	B)	C)	D)
	Increases dissolved oxygen content	Impedes growth of algae	Reduces turbidity	Helps growth of bacterias
Right Answer	B			

Question No. 99	Surface water is obtained from			
Answer Options	A)	B)	C)	D)
	Artesian well	Well	Springs	Rain
Right Answer	D			

Question No. 100	Surge tanks are used			
Answer Options	A)	B)	C)	D)
	As overflow valves	To guard against water hammer	To increase the velocity in a pipeline	For storage water
Right Answer	B			