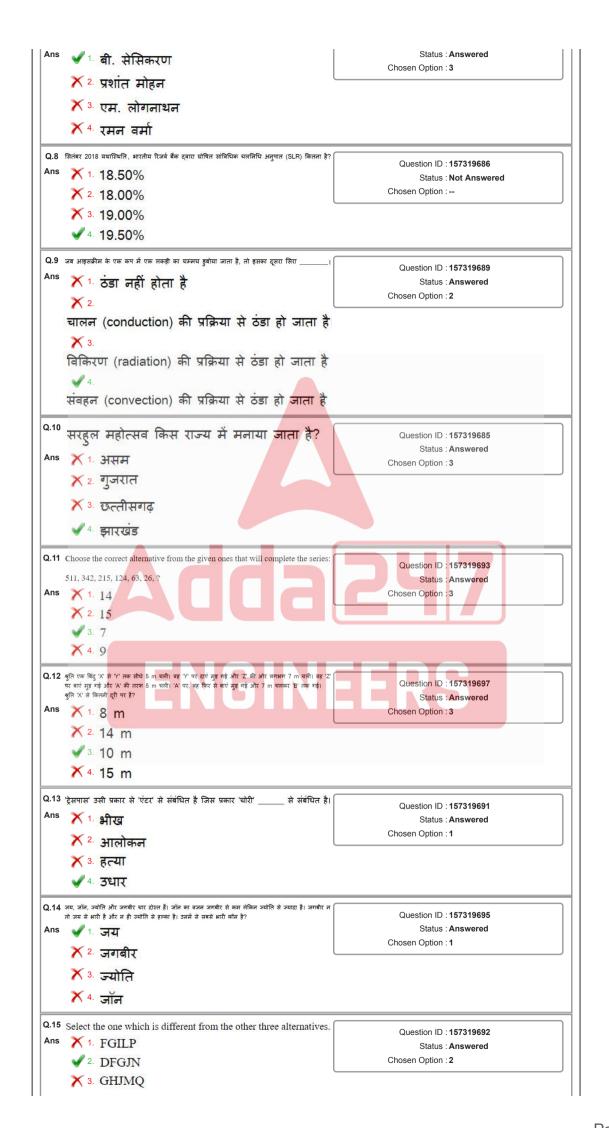
## CHHATTISGARH STATE POWER HOLDING COMPANY LTD. (A Successor Company of CSEB)

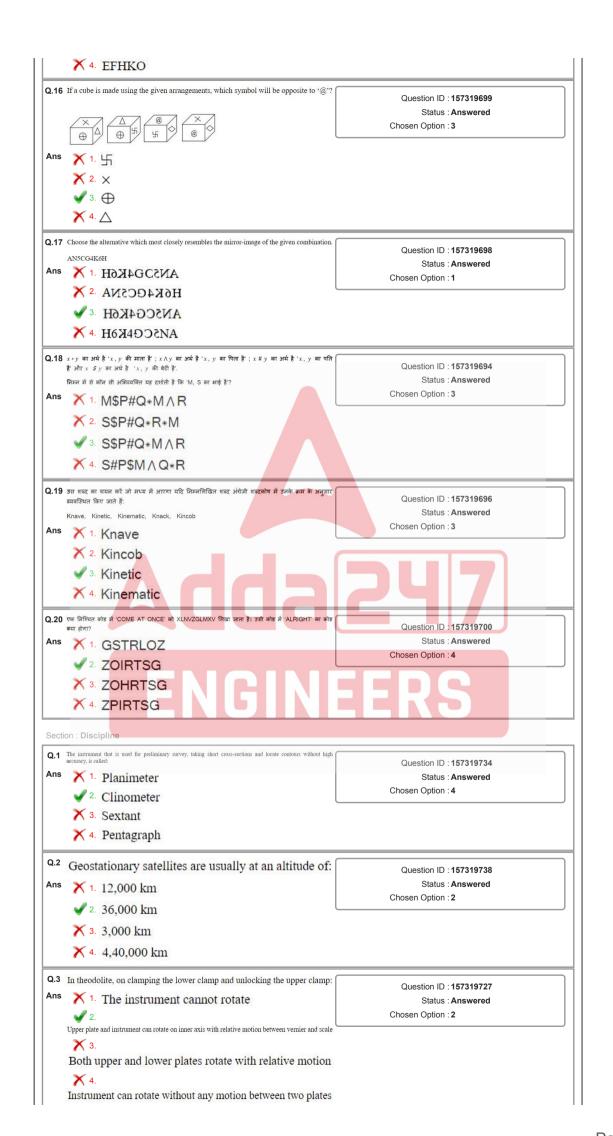




Participant ID:	
Participant Name:	
Test Center Name:	ION Digital Zone iDZ SARONA
Test Date:	27/09/2018
Test Time:	12:30 PM - 2:30 PM
Subject:	Junior Engineer Trainee CIVIL

Secti	on : General Awareness and Reasoning	
Q.1 Ans	do NOT participate in the election of the Vice-President of India.  1. The members of the Lok Sabha  2. The elected members of the Rajya Sabha  3. The members of the Legislative Assembly  4.	Question ID : 157319688 Status : Answered Chosen Option : 3
Q.2 Ans	The nominated members of the Rajya Sabha  What was the theme for World Humanitarian Day 2018?  1. #StopCivilWar  2. #NotATarget  3. #NoMoreExploitation	Question ID : 157319683 Status : Answered Chosen Option : 1
Q.3 Ans	<ul> <li>* 4. #NotYourEnemy</li> <li>For which sport did Bajtang Punia win a gold medal for India at the Asian Games 20182</li> <li>* 1. Boxing</li> <li>* 2. Badminton</li> <li>* 3. Shooting</li> <li>* 4. Wrestling</li> </ul>	Question ID : 157319684 Status : Answered Chosen Option : 4
Q.4 Ans	Stainless steel pans and utensils are usually provided with copper bottoms. What is the reason for this?  1. Copper is a better conductor of heat than stainless steel.  2. Such pans appear colourful.  3. A copper bottom makes the pan more durable.  4. Copper is easier to clean than stainless steel.	Question ID :157319690 Status : Answered Chosen Option : 1
	भारत के संविधान का अनुच्छेद 44 किससे संबंधित है?   ✓ 1.  नागरिकों के लिए एक समान नागरिक संहिता  ✓ 2. सहकारी समितियों का संवर्धन  ✓ 3. राष्ट्रपति का चुनाव  ✓ 4. ग्राम पंचायतों का संगठन	Question ID : 157319687 Status : Answered Chosen Option : 4
Q.6 Ans	युवाओं के बीच हिंदी पढ़ने और लिखने को बढ़ावा देने के लिए अगस्त 2018 में किस देश में पाणिनी भाषा प्रयोगशाला का उद्यादन किया गया था? ✓ 1. मॉरीशस ※ 2. भूटान ※ 3. नेपाल ※ 4. इंडोनेशिया	Question ID : 157319681 Status : Answered Chosen Option : 1

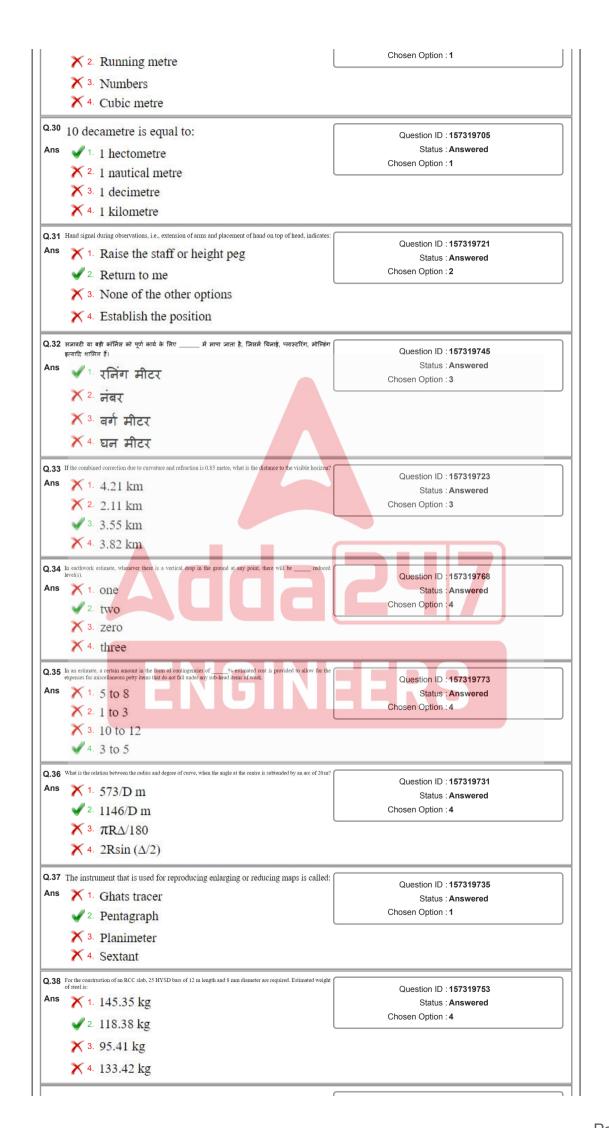




Ans	Estimate total quantity of timber ceiling rebated with $40 \times 20$ mm beading over joints to cover an area of 25.2 m <sup>2</sup> . Take 20 mm thick planks of panel size $60$ cm $\times 60$ cm and assume $10$ % wastage.  1. $0.96$ m <sup>3</sup>	Question ID : 157319760 Status : Answered	
7110		Chosen Option : 3	
	X 2. 0.789 m³  X 3. 0.357 m³		
	4. 0.637 m <sup>3</sup>		
	4. 0.037 III		
Q.5	In general, on a plan, relative altitudes of a point can be represented by:	Question ID : 157319712	
	(i) Shading (ii) Hachures	Status : Answered	
	(iii) Form lines	Chosen Option : 2	
Ans	(iv) Contour lines		
7110	1. (ii) and (iv)		
	✓ 2. (i), (ii), (iii) and (iv)		
	<b>X</b> 3. (i), (ii) and (iv)		
	<b>★</b> 4. (i) and (iv)		
Q.6	With 'd' being distance, correction for curvature (C) in levelling is given by:	Question ID : 157319708	
Ans	$\times$ 1. C = 0.7879 d <sup>2</sup> metre	Status : Answered	
	$\times$ 2. C = 0.06728 d <sup>2</sup> metre	Chosen Option : 3	
	$\checkmark$ 3. C = 0.07849 d <sup>2</sup> metre		
	$\times$ 4. C = 0.667 d <sup>2</sup> metre		
Q.7	The inverted staff reading at the soffit of a cantilever beam point A is 1.55m (BS). Foresight reading at point B, with		
Ans	normally held staff, is 1.05 m. The RL of point B is (take reduced level at point A as 100 m):  1. 98.450 m	Question ID : 157319742 Status : Answered	
	× 2. 102.600 m	Chosen Option : 2	
	✓ 3. 97.400 m		
	× 4. 95.550 m		
Q.8	The sum values of back sight and for sight in a levelling work were found to be 2.565 m and 6.425 m respectively. If the reduced level of starting station is:		
Ans	× 1. 97.435 m	Question ID : 157319716 Status : Answered	
	✓ 2. 96.140 m	Chosen Option : 2	
	X 3. 93.575 m		
	<b>×</b> 4. 91.010 m		
Q.9	Spatial analysis in GIS is done by:	Question ID : 157319737	
Ans	X ¹. Concurrent method	Status : Answered	
	× 2. 3-point method	Chosen Option : 4	
	X 3. Network analysis		
	✓ 4. Euclidean method		
	Calculate the number of standard modular bricks required for flat brick soling for a road of 0.5 km length and that is 4 m		
Q.10 Ans	Wide.	Question ID : 157319771	
7110	X 1. 1.25 lakh X 2. 85000	Status : Answered Chosen Option : 4	
	X 3. 1.5 lakh		
	1.3 lakii		
	✓ 4. 1.1 lakh		
0.44	✓ 4. 1.1 lakh		
	The biggest of the main survey line where various survey stations are plotted with reference to this is referred to as:	Question ID :157319701	
	The biggest of the main survey line where various survey stations are plotted with reference to this is referred to as:  1. Pond line	Status : Answered	
	The biggest of the main survey line where various survey stations are plotted with reference to this is referred to as:  1. Pond line 2. Tie line		
	The biggest of the main survey line where various survey stations are plotted with reference to this is referred to as:  1. Pond line	Status : Answered	
Ans	The biggest of the main survey line where various survey stations are plotted with reference to this is referred to as:  1. Pond line 2. Tie line 3. Check line 4. Base line	Status : Answered	
Ans	The biggest of the main survey line where various survey stations are plotted with reference to this is referred to as:  1. Pond line 2. Tie line 3. Check line	Status : Answered Chosen Option : 4  Question ID : 157319714	
Ans Q.12	The biggest of the main survey line where various survey stations are plotted with reference to this is referred to as:  1. Pond line 2. Tie line 3. Check line 4. Base line  The correct formula of arithmetic checking in Height of Instrument method is given by:	Status : Answered Chosen Option : 4	
Ans Q.12	The biggest of the main survey line where various survey stations are plotted with reference to this is referred to as:  1. Pond line  2. Tie line  3. Check line  4. Base line  The correct formula of arithmetic checking in Height of Instrument method is given by:  1. ΣBS − ΣFS = Last RL − First RL	Status : Answered Chosen Option : 4  Question ID : 157319714 Status : Answered	
Ans Q.12	The biggest of the main survey line where various survey stations are plotted with reference to this is referred to as:  1. Pond line  2. Tie line  3. Check line  4. Base line  The correct formula of arithmetic checking in Height of Instrument method is given by:  1. ΣBS − ΣFS = Last RL − First RL  2. ΣFS − ΣBS = Last RL − First RL	Status : Answered Chosen Option : 4  Question ID : 157319714 Status : Answered	

Ans	X 1. 2455.24 m³	Status : Answered Chosen Option : 2	
	✓ 2. 2129.40 m³		
	<b>×</b> 3. 1690.00 m³		
	<b>×</b> 4. 2350.50 m³		
Q.14	Bill of quantities book provides:	Question ID : 157319775	
	<ul><li>a. Description of various items of work.</li><li>b. Quantities and unit of rates.</li></ul>	Status : Answered Chosen Option : 3	
	Identify the correct statement(s).		
Ans	★ 1. Both the statements are false		
	X ≥ Statement b is true but a is false		
	✓ 3. Both the statements are true		
	X 4. Statement a is true but b is false		
	Swaying of vehicles outwards due to centrifugal force can be avoided by:	Question ID : 157319732	
Ans	✓ 1. Transition curve	Status : Answered	
	× 2. Reverse curve	Chosen Option : 1	
	X 3. Vertical curve		
	X 4. Compound curve  ✓ 4. Compound curve		
	In the sedimentation process of sewage for Indian conditions, at a temperature of 25 $^{\circ}$ C, the surface area required will be for every 10 L/min peak flow rate:	Question ID : 157319765	
Ans	<b>×</b> 1. 1.18 m <sup>2</sup>	Status : Answered	
	$\checkmark$ 2. 0.92 m <sup>2</sup>	Chosen Option : 3	
	X 3. 1.25 m <sup>2</sup>		
	$\times$ 4. 0.67 m <sup>2</sup>		
0.45	0.07 1.12		
Q.17 Ans	In magnetic declination, the line drawn through points having zero declination is known as:  1. Agonic line	Question ID : 157319710	
	× 2. Diurnal line	Status : Answered Chosen Option : 1	
	X 3. Aniogonic line		
	× 4. Isogonic line		
	The term cost is used to indicate:	Question ID : 157319761	
Ans	1.  The actual amount incurred in producing a commodity that possesses some value plus profit of the manufacturer	Status : Answered Chosen Option : 1	
	<b>√</b> 2.		
	The actual amount incurred in producing a commodity that possesses some value 3.		
	The corresponding exchange of one commodity into any other commodity		
	★ 4. The thing that can be owned or held		
Q.19	For an RCC column construction, the reinforcing steel to be provided = $1.7$ percentage of concrete volume. Calculate the weight of steel required in kg. Take concrete volume as $1.5 \mathrm{m}^3$ .	Question ID : 157319748	
Ans	<b>★</b> 1. 236.1 kg	Status : Answered	
Alis	9019000 00000 00	Chosen Option : 3	
Alls	√ 2. 200.2 kg		
Alis	✓ 2. 200.2 kg ★ 3. 185.3 kg		
Alls			
	<ul> <li>3. 185.3 kg</li> <li>4. 228.5 kg</li> <li>Regarding conditions to be fulfilled by survey lines or survey stations, choose the correct option as to which conditions</li> </ul>		
	<ul> <li>3. 185.3 kg</li> <li>4. 228.5 kg</li> <li>Regarding conditions to be fulfilled by survey lines or survey stations, choose the correct option as to which conditions must be fulfilled:         <ul> <li>(i) Survey stations need not be mutually visible.</li> </ul> </li> </ul>	Question ID : 157319706 Status : Answered	
	Regarding conditions to be fulfilled by survey lines or survey stations, choose the correct option as to which conditions must be fulfilled:  (i) Survey stations need not be mutually visible. (ii) Survey lines must be as few as possible so that the framework can be plotted conveniently. (iii) All the lines from which offsets are taken should be placed close to corresponding surface features so as to get short offsets.		
	Regarding conditions to be fulfilled by survey lines or survey stations, choose the correct option as to which conditions must be fulfilled:  (i) Survey stations need not be mutually visible. (ii) Survey lines must be as few as possible so that the framework can be plotted conveniently. (iii) All the lines from which offsets are taken should be placed close to corresponding surface features so as to get short offsets.  (iv) As far as possible, main survey lines should not pass through obstacles.	Status : Answered	
Q.20	Regarding conditions to be fulfilled by survey lines or survey stations, choose the correct option as to which conditions must be fulfilled:  (i) Survey lines must be as few as possible so that the framework can be plotted conveniently. (ii) All the lines from which offests are lines notwoid be placed close to corresponding surface features so as to get short offsets. (iv) As far as possible, main survey lines should not pass through obstacles.	Status : Answered	
Q.20	Regarding conditions to be fulfilled by survey lines or survey stations, choose the correct option as to which conditions must be fulfilled:  (i) Survey stations need not be mutually visible. (ii) Survey lines must be as few as possible so that the framework can be plotted conveniently. (iii) All the lines from which offsets are taken should be placed close to corresponding surface features so as to get short offsets.  (iv) As far as possible, main survey lines should not pass through obstacles.  1. (ii) and (iii)  2. (i) and (iii)	Status : Answered	
Q.20	Regarding conditions to be fulfilled by survey lines or survey stations, choose the correct option as to which conditions must be fulfilled:  (i) Survey lines must be as few as possible so that the framework can be plotted conveniently. (ii) All the lines from which offests are lines notwoid be placed close to corresponding surface features so as to get short offsets. (iv) As far as possible, main survey lines should not pass through obstacles.	Status : Answered	

X 1. 10486.51 Status : Answered Chosen Option : 4 × 2. 7501.35 X 3. 12587.31 4. 9510.12 Q.22 Which of the below statements is true about the Height of Instrument method of levelling when compared to the Rise and Fall method? Question ID : 157319722 It is tedious and complex as compared to the Rise and Fall method
 It. It is rapid and simple
 III. It provides check in calculation for all sights
 IV. It doesn't provide check for intermediate sight Status : Answered Chosen Option : 4 Ans 🧹 1. II, IV X 2. I, II X 3. II, III X 4. I, IV Q.23 The maximum sewage flow into septic tank is based on: Question ID : 157319764 Ans X 1. Suspended solids Status : Answered Chosen Option : 2 **2**. Number of plumbing fixtures discharging simultaneously Per capita waste water expected to reach tank X 4. Number of users Q.24 Estimate the quantity of earthwork in excavation for a masonry platform, 6 m × 5 m, shown in the below figure Consider width of excavation = 0.8 m and death of excavation = 0.7 m. Question ID: 157319780 Status : Answered Chosen Option : 2 Ans X 1. 10.12 m<sup>3</sup> ✓ 2. 11.42 m<sup>3</sup> X 3. 10.96 m<sup>3</sup> X 4. 5.71 m<sup>3</sup> Q.25 Who is authorised to decide, to increase or decrease the rates of works, materials, labours, etc. in order to arrive at Question ID : 157319757 Ans 🗸 1. Superintending engineers Status : Answered Chosen Option : 1 X 2. Contractors X 3. Ministry of PWD 4. Project management consultants Q.26 Consider the below statements and identify the correct answer. Question ID: 157319754 In a detailed estimate, the abstract of estimate provides: Status : Answered Chosen Option : 2 i. The total estimated cost of the project
ii. The various items of work to be carried out to complete the project Ans X 1. Statement ii is true and i is false ✓ 2. Both statements are true X 3. Both statements are false A. Statement i is true and ii is false Q.27 Under which type of an estimate are structures such as wall foundations measured in linear measurements and fairly Question ID : 157319776 Ans X 1. Typical bay method Status: Answered Chosen Option : 3 X 2. Service unit method √ 3. Approximate quantities method X 4. Empirical equations method Q.28 If one side surface area of panelled, framed and braced, ledged and battened door is  $2.52 \text{ m}^2$ , the total painting work quantity is =  $m^2$ Question ID : 157319746 Ans X 1. 5.04 Status : Answered Chosen Option: 1 X 2. 2.52 **3**. 5.67 X 4. 7.56 Q.29 The unit of measurement used for bending and binding of steel reinforcement is: Question ID: 157319747 ✓ 1. Quintals Status : Answered



Q.39 In dealing with desirable optical characteristics of surveying telescope, the absence of spherical aberration is known as: Question ID: 157319707 Ans 🗸 1. Aplanation Status : Answered Chosen Option : 2 X 2. Achromatism X 3. Magnification X 4. Chromatic aberration Q.40 The wavelength at which maximum amount of energy is reflected from the Earth is: Question ID : 157319739 Ans × 1. 0.9 μm Status : Answered Chosen Option : 1 × 2. 5 μm × 3. 9.7 μm **√** 4. 0.5 μm Q.41 A reverse curve consists of: Question ID: 157319733 Ans X 1. Status : Answered Chosen Ontion · 4 Two or more arcs turning into the same direction Two or more arcs with the centre of radii on different sides X 3. A single arc X 4. All of the other options Q.42 The term used to denote a procedure of valuing an item on the basis of the materials used, the actual time taken by the labourers and the equipment employed is: Question ID : 157319777 Ans X 1. Provisional sums Status : Answered Chosen Option : 1 √ 2. Day work X 3. Prime cost X 4. Detailed description Q.43 The expected out-turn of a mason for the item of work "coursed rubble stone masonry in lime or cement mortal including dressing" is: Question ID: 157319778 Ans X 1. 3 m<sup>3</sup> Status : Answered Chosen Option: 1 √ 2. 0.8 m³  $\times$  3. 5 m<sup>3</sup> × 4. 0.55 m<sup>3</sup> Q.44 In differential levelling, which of the following errors can be eliminated by reciprocal measurements Question ID: 157319741 Status : Answered Chosen Option: 1 Ans X 1. I only X 2. No error can be eliminated √ 3. Both I and II X 4. II only Q.45 Which term is used to represent the fancy price demanded by owner as the property possesses certain advantages with respect to the adjoining properties due to its size, shape, frontage, location etc.? Question ID: 157319762 Ans X 1. Distress value Status : Answered Chosen Option : 4 X 2. Market value X 3. Sentimental value ✓ 4. Monopoly value Q.46 Additive constant of a tachometer in stadia method is: Question ID: 157319730 Ans  $\checkmark$  1. c = (f + d)Status : Answered Chosen Option: 1  $\times$  2. c = f \* d $\times$  3. c = f/d $\times$  4. c = 1/f1 + 1/f2Q.47 Find the area of temporary land required for 1.5 km length of a road from the following data:

Formation width of road: 10 m, Average height of bank: 1.5 m, Side slope: -2H:IV, Depth of barrow pit: 30 cm Question ID : 157319772 Ans X 1. 11.65 hectare Status : Answered Chosen Option: 3 X 2. 6.81 hectare √ 3. 9.75 hectare X 4. 10.21 hectare Q.48 The size of coarse aggregates used for damp proof course must be: Question ID: 157319756

Ans	✓ 1. 6 to 12 mm × 2. 20 to 25 mm × 3. 25 to 40 mm	Status : <b>Answered</b> Chosen Option : <b>4</b>
	<b>★</b> 4. 12 to 20 mm	
	The actual cost of the work is known:  1. After the detailed estimate of the project  2. At the beginning of work  3. Post the completion of the work  4. The actual cost cannot be determined	Question ID : 157319743 Status : Answered Chosen Option : 1
	Dry brick or stone soling is provided:  1. In between plinth beam and wall  2. Below the foundation concrete  3. Above the terrace slab  4. At beam column junction	Question ID : 157319744 Status : Answered Chosen Option : 2
	In levelling, the objective of back sighting is to:  1. Ascertain elevation of point  2. Do temporary adjustments  3. Fix the instrument station  4. Ascertain height of plane of sight	Question ID : 157319703 Status : Answered Chosen Option : 4
	The actual size of a standard modular brick tile is:  1. 19 cm × 9 cm × 4 cm  2. 20 cm × 10 cm × 10 cm  3. 19 cm × 9 cm × 9 cm  4. 10 cm × 10 cm × 3 cm	Question ID : 157319749 Status : Answered Chosen Option : 3
Q.53	Which of the following is NOT a type of variation in declination?  ✓ ¹. Biurnal declination  ✓ 2. Irregular declination  ✓ 3. Secular declination  ✓ 4. Annual declination	Question ID : 157319709 Status : Answered Chosen Option : 3
Q.54 Ans	The wavelengths at which EM radiation are wholly or partially transmitted through atmosphere are known as:  1. Absorption wavelengths  2. Scattering wavelengths  3. Non-selective wavelengths  4. Atmospheric window wavelengths	Question ID : 157319740 Status : Answered Chosen Option : 2
Q.55	A small-sized, curved, flexible connection between the water main and the service pipe provided in house water	
Ans	<ul> <li>7 1. Ferrule</li> <li>2. Elbows</li> <li>3. Goose neck</li> <li>4. Stop cock</li> </ul>	Question ID : 157319766 Status : Answered Chosen Option : 4
Q.56	In the process of checking for errors involved in traversing, the sum of measured interior angles of a closed traverse school to be equal to:  1. (2N+5) right angles  2. (2N-5) right angles  3. (2N-4) right angles  4. (2N+4) right angles	Question ID : 157319719 Status : Answered Chosen Option : 3
Q.57 Ans	Which of these is a method of plane tabling?  1. Intersection  2. All of the other options	Question ID : 157319704 Status : Answered Chosen Option : 2

