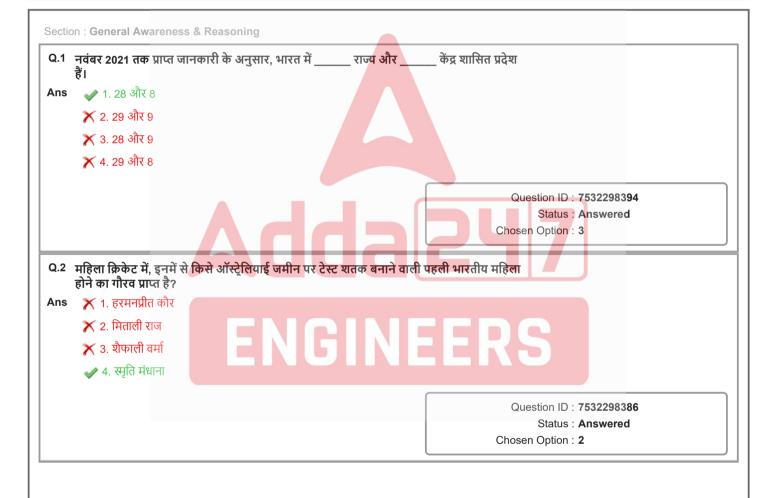


CHHATTISGARH STATE POWER HOLDING COMPANY LIMITED

(A Government of Chhattisgarh Undertaking) CIN No. : U65992CT2008SGC020995 O/o GM (HR), C.S. Power Holding Co.Ltd., Raipur

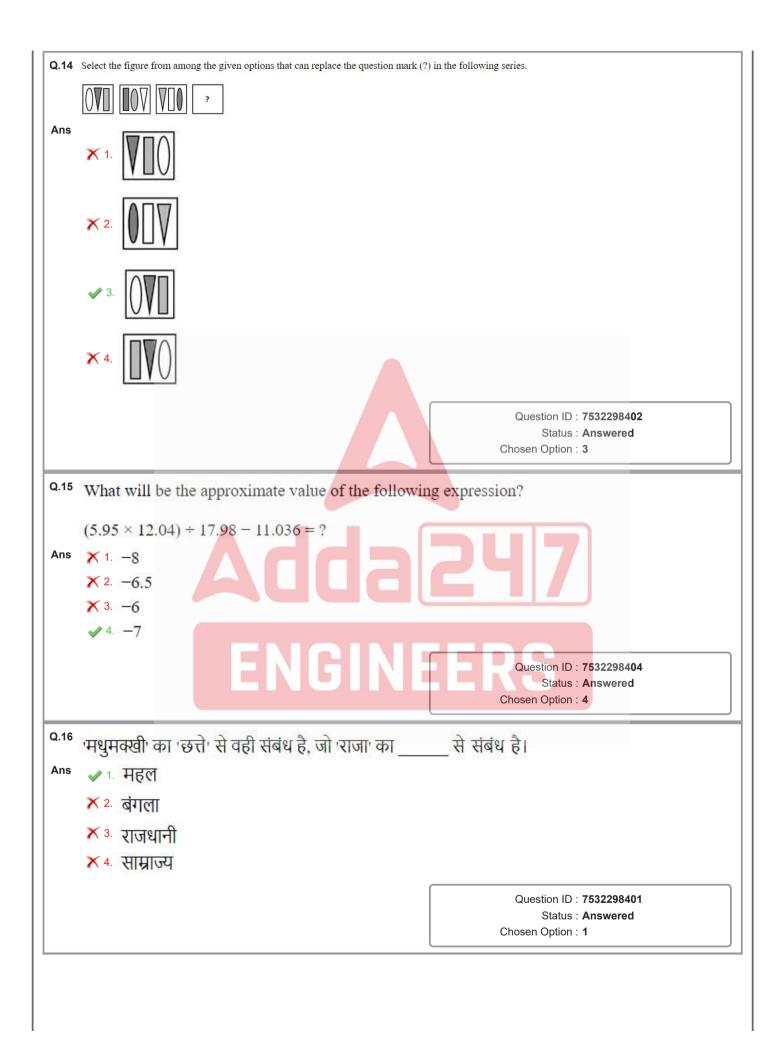
| Participant ID | |
|----------------|---------------------------------|
| Participant | |
| Name | |
| Test Center | |
| Name | |
| Test Date | 14/01/2022 |
| Test Time | 4:30 PM - 6:30 PM |
| Subject | Junior Engineer Trainee - Civil |

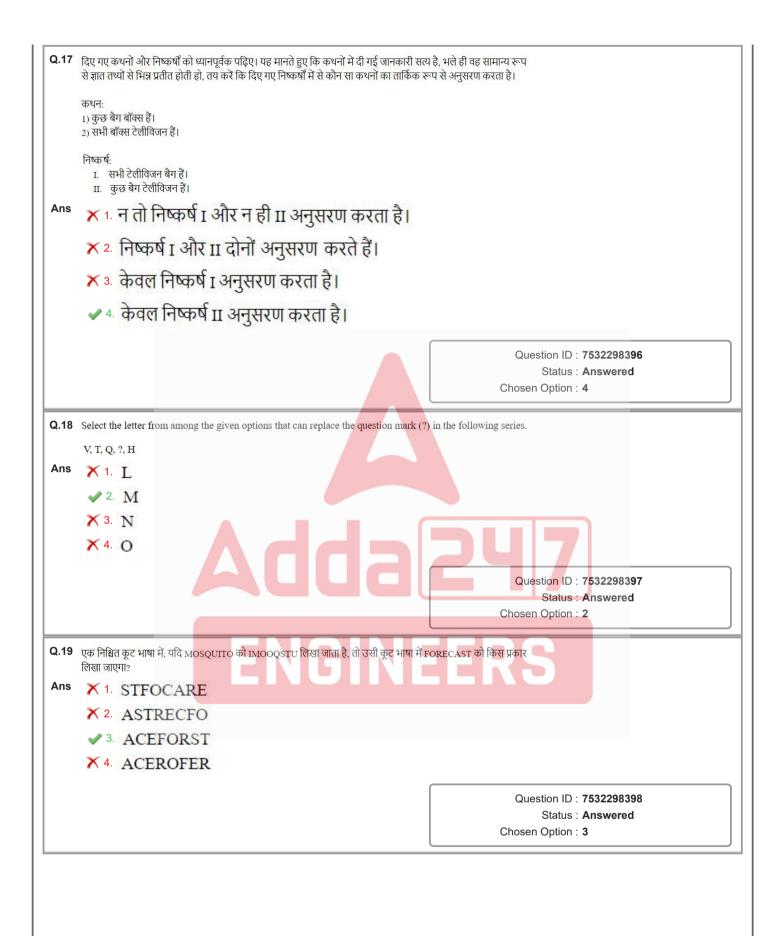


| Q.3 सही कथन का चयन करें | |
|---|---|
| a) अपसौर (Aphelion) तब होता है, जब पृथ्वी सूर्य के निकटतम होती है b) पृथ्वी की कक्षा अंडाकार है c) जब पृथ्वी सूर्य के सबसे निकट होती है, तो दूरी लगभग 147 मिलियन वि d) उपसौर (Perihelion) तब होता है, जब पृथ्वी सूर्य से दूरतम होती है | केमी होती है |
| Ans X 1. केवल d और a | |
| 🖌 2. केवल b और c | |
| 🗙 3. केवल с और d | |
| 🗙 4. केवल a और b | |
| | Question ID : 7532298391 Status : Not Answered Chosen Option : |
| Q.4 निम्नलिखित में से कौन-सा कथन, 'प्रधानमंत्री जीवन ज्योति बीमा योजना' वं | के बारे में गलत है? |
| Ans 🗙 1. इसका प्रीमियम 330 रुपए प्रति वर्ष है, जिसे ऑटो-डेबिट किया जाना | |
| 🗙 2. 2 लाख रुपए का जीवन बीमा एक वर्ष की अवधि के लिए होगा | |
| 🗙 3. यह 18 से 50 वर्ष के आयु वर्ग के लोगों के लिए उपलब्ध है | |
| 🛹 4. योजना के तहत वार्षिक कवरेज अवधि 1 अप्रैल से 31 मार्च है | |
| | Question ID : 7532298385 Status : Answered Chosen Option : 4 |
| Q.5 कोणार्क का सूर्य मंदिर किस स्थापत्य शैली के लिए प्रसिद्ध है? Ans X 1. द्रविड़ X 2. गोपुरम 3. कलिंग X 4. वेसर | 247 |
| ENGIN | Question ID : 7532298388 Status : Answered Chosen Option : 1 |
| Q.6 2019-20 के संदर्भ में, भारत का इनमें से कौन सा राज्य देश का दूसरा सब राज्य है? | वसे बड़ा नारियल उत्पादक |
| Ans 🗙 1. कर्नाटक | |
| 🗙 २. केरल | |
| 🛹 ३. तमिलनाडु | |
| 🗙 ४. आंध्र प्रदेश | |
| | Question ID : 7532298389 Status : Not Answered Chosen Option : |
| | |

| Q.7 | VIBGYOR में किस रंग की आवृत्ति सबसे अधिक होती है? | |
|-----|---|---|
| Ans | 🗙 १. हरा | |
| | 🗙 २. लाल | |
| | 🗙 ३. नीला | |
| | ✔ 4. बैंगनी | |
| | | |
| | | Question ID : 7532298392 Status : Answered |
| | | Chosen Option : 2 |
| | | |
| | राज्य पुनर्गठन अधिनियम 1956 पारित होने के बाद भारत में राज्यों की संख | प्रा कितनी थी? |
| Ans | X 1.21 | |
| | X 2. 18 | |
| | 3 . 14 | |
| | X 4. 27 | |
| | | Question ID : 7532298387 |
| | | Status : Not Answered |
| | | Chosen Option : |
| Q.9 | भारतीय संविधान का व्यापार और वाणिज्य से संबंधित है। | |
| Ans | Х 1. HIT XIV | |
| | × 2. भाग XV | |
| | 🗙 3. भाग XII | |
| | 🗸 4. भाग XIII | |
| | | |
| | | Question ID : 7532298393 |
| | | Status : Not Answered Chosen Option : |
| | | |
| | भारत का कौन सा राज्य देश में टिन अयस्क का एकमात्र उत्पादक है? | |
| Ans | 🖌 १. छत्तीसगढ़ | |
| | 🗙 २. मध्य प्रदेश | |
| | 🗙 ३. बिहार | |
| | 🗙 ४. ओडिशा | |
| | | Question ID : 7532298390 |
| | | Status : Answered |
| | | Chosen Option : 1 |
| | | |

| Ans × 1. उत्तर × 2. उत्तर-पश्चिम • 3. उत्तर-पूर्व × 4. दक्षिण-पूर्व Cuestion ID: 7532298399 Status: Answered Chosen Option: 3 Q.12 एम, पमी, करि, शीत, उमा और तमाय एक व्रताकार गेब के इंटी गर्द गेब के के इंडी और ठी क काल में 11 तम्पय, कारे के वाई और ठी क बगाल में बाला ने वी वा विद्याना बोलेंद के बी स्थी के वाई और ठी क बगाल में Ans × 1. तन्मय के दाई और ठी क बगाल में × 2. उमा के वाई और ठी क बगाल में × 3. तन्मय और उमा के ठी क मध्य में × 4. उमा के बाई और ठी क बगाल में × 4. उमा के बाई और ठी क बगाल में × 1. 1 तन्मय और उमा के ठी क मध्य में × 4. उमा के बाई और ठी क बगाल में × 2. 3. 1 77 ENGGINEERS | Q.11 | 1 रोहन बाजार से पूर्व की ओर सीधे 450 मीटर गया और बाएं मुड़ा। इसके बाद उसने 600 मीटर की दूरी तय की और बाएं मुड़ा, फिर 150 मीटर की दूरी तय करने के बाद वह पुनः बाएं मुड़ गया। उसने और 300 मीटर की दूरी तय की और रुक गया। वह आरंभिक बिंदु से किस दिशा में है? | |
|---|------|--|--|
| 3. उत्तर-पूर्व * 4. दक्षिण-पूर्व Cuestion ID: 7532298399 Status : Answered Chosen Option : 3 C.12 राम, प्रमी, कादिर, श्रीता, उमा और तमाय एक तुनाकार मेंब के इर्द्र मिर्द मेंब के केंद्र वी और मुख करके कें हैं और एक दूसरे से आगत दूरी पर है। श्रीता रामा के ठीक सामने बेठी है, जो कादिर के बाई और ठीक बगल में है। तमय, कादिर के दाई और ठीक बाल में बेठा है। यदि उमा कादिर के ठीक सामने बेठी है, तो प्रमी के बेठन की स्थित क्या के बाल में बेठा है। यदि उमा को दाई और ठीक बगल में * 1. तनमय के दाई और ठीक बगल में * 3. तनमय और उमा के ठीक मध्य में * 4. उमा के बाई और ठीक बगल में * 4. उमा के बाई और ठीक बगल में * 4. उमा के बाई और ठीक बगल में * 5. GRAGE BOLD Decomposition ID: 7532298395 Status : Answered Chosen Option : 2 C.13 Select the number from among the given options that can replace the question matk (2) in the following series. 197, 191, 2, 167, 157 Ans * 1. 179 * 2. 181 | Ans | Х1. उत्तर | |
| × 4. दक्षिण-पूर्व Q.12 रमन, पमी, कविर, शीता, उमा और तमय एक वृत्ताकार में के केंद्र की ओर मुख करके बैठे हैं और एक दूसरे से समान के दौक सामने बेठी है, जो पमी के बेठने की सिर्गि सपके Q.12 रमन, पमी, कविर, शीता, उमा और तमय एक वृत्ताकार में के इर्द्र गिर्द मेंक केंद्र की ओर मुख करके बैठे हैं और एक दूसरे से समान के दौक सामने बेठी है, जो पमी के बेठने की सिर्गि सपके? Q.12 रमन, पमी, कविर, शीता, उमा और तमय एक वृत्ताकार में के इर्द्र गिर्द मेंक केंद्र की ओर मुख करके बैठे हैं और एक दूसरे से समान केंदी है, जो पमी के बेठने की सिर्गि सपके? Ans × 1. तनमय के दाई ओर ठीक बगाल में × 2. उमा के दाई ओर ठीक बगाल में × 3. तनमय और उमा के ठीक मध्य में × 4. उमा के बाई और ठीक बगाल में × 3. तनमय और उमा के ठीक मध्य में × 4. उमा के बाई और ठीक बगाल में × 7. 1. तनमय के बाई और ठीक बगाल में × 8. उमा के बाई और ठीक बगाल में × 9. 1. 179 × 2. 181 | | Х 2. उत्तर-पश्चिम | |
| Question ID: 7532298399 Status: Answered Chosen Option: 3 Q.12 रसन, पम्मी, कादिर, सीता, उमा और तमय एक वृताकार मेख के इदी-गिर्द मेख के केंद्र की ओर मुख करके कैठे है और एक दूसरे से समान दूरी पर है। सीता परन के ठीक सामने बेठी हे, तो पम्मी के बेठने की स्थिति क्या के बाल में बेठा है। यदि उमा कादिर के ठीक सामने बेठी हे, तो पम्मी के बेठने की स्थिति क्या के स्थान दूरी पर है। सीता परन के ठीक सामने बेठी हे, तो पम्मी के बेठने की स्थिति क्या के स्थान वहें? Ans ★ 1. तन्मय के दाई ओर ठीक बगाल में ★ 2. उमा के दाई ओर ठीक बगाल में * 3. तन्मय और उमा के ठीक मध्य में ★ 4. उमा के बाई ओर ठीक बगाल में * 4. उमा के बाई ओर ठीक बगाल में • 4. उमा के बाई ओर ठीक बगाल में • 7. 1. 77 Ans • 1. 179 • 2. 181 | | 🛩 ः उत्तर-पूर्व | |
| Status: Answered Chosen Option: 3 Q.12 स्मन, प्रमी, कादिर, सीता, उमा और तमय एक वृत्ताकार मेज के इर्ट, गिर्द मेज के केंद्र की ओर मुख करके बेठे हैं और एक दूसरे से समान दूरी पर हैं। सीता रमन के ठीक सामने बेठी है, जो प्रमी के बेठने की स्थिति क्या है? Ans X 1. तन्मय के दाई ओर ठीक बगाल में * 2. उमा के दाई ओर ठीक बगाल में * 3. तन्मय और उमा के ठीक मध्य में * 4. उमा के बाई ओर ठीक बगाल में * 4. उमा के बाई ओर ठीक बगाल में * 4. उमा के बाई और ठीक बगाल में * 1. तन्मय • 1. तन्मय और उमा के ठीक मध्य में * 4. उमा के बाई ओर ठीक बगाल में • 7532298395 Status : Answered Chosen Option : 2 | | Х₄ दक्षिण-पूर्व | |
| Q.12 समन, प्रम्मी, कदिर, सीता, उमा और तमय एक त्ताकार मेज के इर्द्र गिर्द मेज के केंद्र की और मुख करके बैठे हैं और एक दूसरे से समन दूरी पर हैं। सीता रमन के ठीक सामने बेठी है, जो जमीदर के बाई और ठीक बगल में है। तनय, कादिर के दाई ओर ठीक बगल में Ans X 1. तन्मय के दाई ओर ठीक बगल में < 2. उमा के दाई ओर ठीक बगल में × 3. तन्मय और उमा के ठीक मध्य में X 4. उमा के बाई ओर ठीक बगल में < 4. उमा के बाई और ठीक बगल में < 1. तन्मय और उमा के ठीक मध्य में < 4. उमा के बाई और ठीक बगल में < 1. तन्मय और उमा के ठीक मध्य में < 1. तन्मय और उमा के ठीक मध्य में < 1. तन्मय के बाई और ठीक बगल में < 1. तन्मय और उमा के ठीक मध्य में < 1. तन्मय और उमा के ठीक का प्रध्य में < 1. तन्मय के बाई और ठीक बगल में | | | |
| समान दूरी पर है। सीता रमन के ठीक सामने बेठी हे. जो कादिर के बाई ओर ठीक बगल में है। तम्मय, कादिर के दाई ओर ठीक बगल में Ans ★ 1. तन्मय के दाई ओर ठीक बगल में ✓ 2. उमा के दाई ओर ठीक बगल में ★ 3. तन्मय और उमा के ठीक मध्य में ★ 4. उमा के बाई ओर ठीक बगल में Øuestion ID : 7532298395 Status : Answered Chosen Option : 2 Q.13 Select the number from among the given options that can replace the question mark (?) in the following series. 197, 191, 2, 167, 157 Ans ✓ 1. 179 ★ 2. 181 | | | |
| ▲ 1. तम्मय के दाई और ठीक बगल में ▲ 2. उमा के दाई और ठीक बगल में ▲ 3. तन्मय और उमा के ठीक मध्य में ▲ 4. उमा के बाई और ठीक बगल में Question ID : 7532298395 Status : Answered Chosen Option : 2 Q.13 Select the number from among the given options that can replace the question mark (?) in the following series. 197, 191, ?, 167, 157 Ans ▲ 1. 179 ▲ 2. 181 | Q.12 | समान दूरी पर हैं। सीता रमन के ठीक सामने बैठी है, जो कादिर के बाईं ओर ठीक बगल में है। तन्मय, कादिर के दाईं ओर ठींक | |
| × 3. तन्मय और उमा के ठीक मध्य में × 4. उमा के बाई ओर ठीक बगल में Question ID : 7532298395 Status : Answered Chosen Option : 2 Q.13 Select the number from among the given options that can replace the question mark (?) in the following series. 197, 191, ?, 167, 157 Ans ✓ 1. 179 × 2. 181 | Ans | × 1. तन्मय के दाईं ओर ठीक बगल में | |
| ★ 4. उमा के बाई ओर ठीक बगल में Question ID : 7532298395 Status : Answered Chosen Option : 2 Q.13 Select the number from among the given options that can replace the question mark (?) in the following series. 197, 191, ?, 167, 157 Ans ✓ 1. 179 ★ 2. 181 | | ✓ ² . उमा के दाई ओर ठीक बगल में | |
| Question ID : 7532298395 Status : Answered Chosen Option : 2 Q.13 Select the number from among the given options that can replace the question mark (?) in the following series. 197, 191, ?, 167, 157 Ans 1, 179 × 2, 181 | | × 3. तन्मय और उमा के ठीक मध्य में | |
| Status : Answered Chosen Option : 2 Q.13 Select the number from among the given options that can replace the question mark (?) in the following series. 197, 191, ?, 167, 157 Ans ✓ 1. 179 ✓ 2. 181 | | 🗙 4. उमा के बाईं ओर ठीक बगल में | |
| 197, 191, ?, 167, 157 Ans ✓ 1. 179 ★ 2. 181 ENGINEERS | 0.40 | Status : Answered Chosen Option : 2 | |
| ×2. 181 ENGINEERS | Q.13 | | |
| | Ans | | |
| ^ 3. 1// | | | |
| × 4. 173 | | | |
| Question ID : 7532298403 | | | |
| Status : Not Answered Chosen Option : | | Status : Not Answered | |
| | | | |

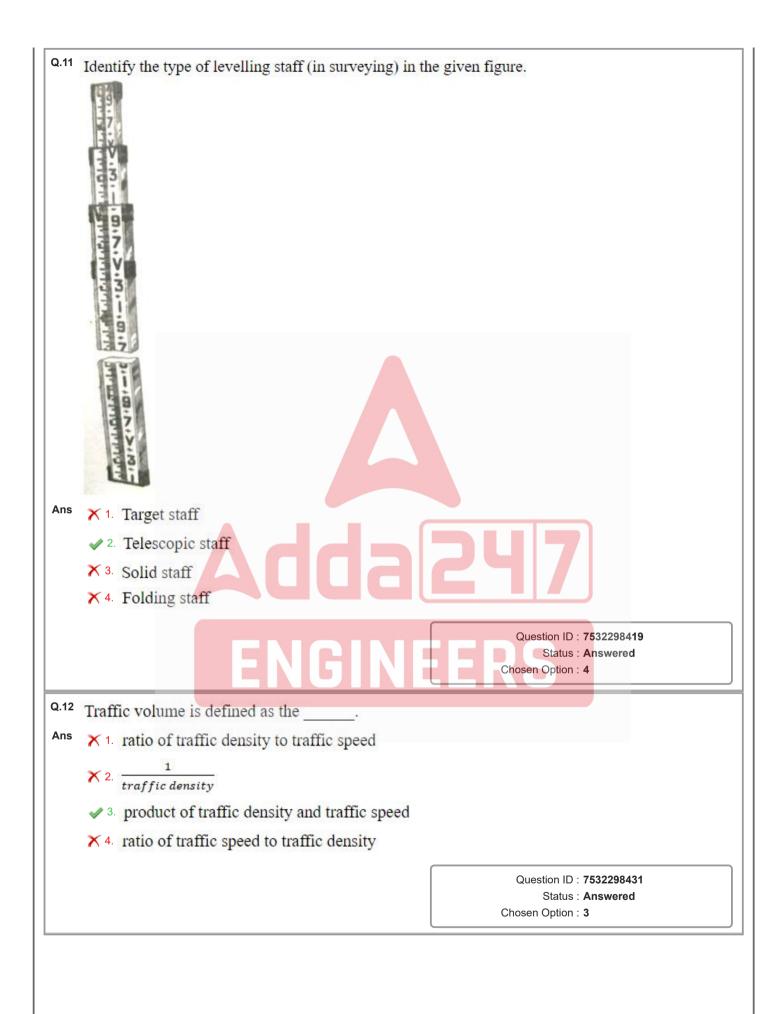




| Q.20 | यदि "A # B" का अर्थ है A, B की पत्नी है; "A S B" का अर्थ है A, B का भाई है; "A & B" का अर्थ है A, B का पुत्र है; "A % B" का अर्थ है A, B का पिता है; तो V & W # X S Y % Z में V का Z से क्या संबंध है? |
|--------|---|
| Ans | Х 1. भतीजा |
| | ४ ₂ भाई |
| | ✓ ^{3.} चचेरा भाई |
| | Х₄ चाचा |
| | |
| | Question ID : 7532298400 Status : Answered |
| | Chosen Option : 3 |
| Sectio | on : Subject Content |
| | The type of cement, when used in concrete with restrained expansion, induces |
| | compressive stresses which approximately offsets the tensile stress induced by shrinkage is |
| Ans | X 1. ordinary portland cement |
| | 2. shrinkage compensating cement |
| | X 3. low heat cement |
| | X 4. masonry cement |
| | Question ID : 7532298440 |
| | Status : Answered Chosen Option : 2 |
| | |
| Q.2 | Identify the type of roof truss in the given figure. |
| | |
| | AV: DA |
| | |
| Ans | × 1. Howe triangular |
| | × 2. Compound fink |
| | × ³ Howe flat |
| | ✓ 4. Compound fan |
| | Question ID : 7532298448 |
| | Status : Not Answered |
| | Chosen Option : |

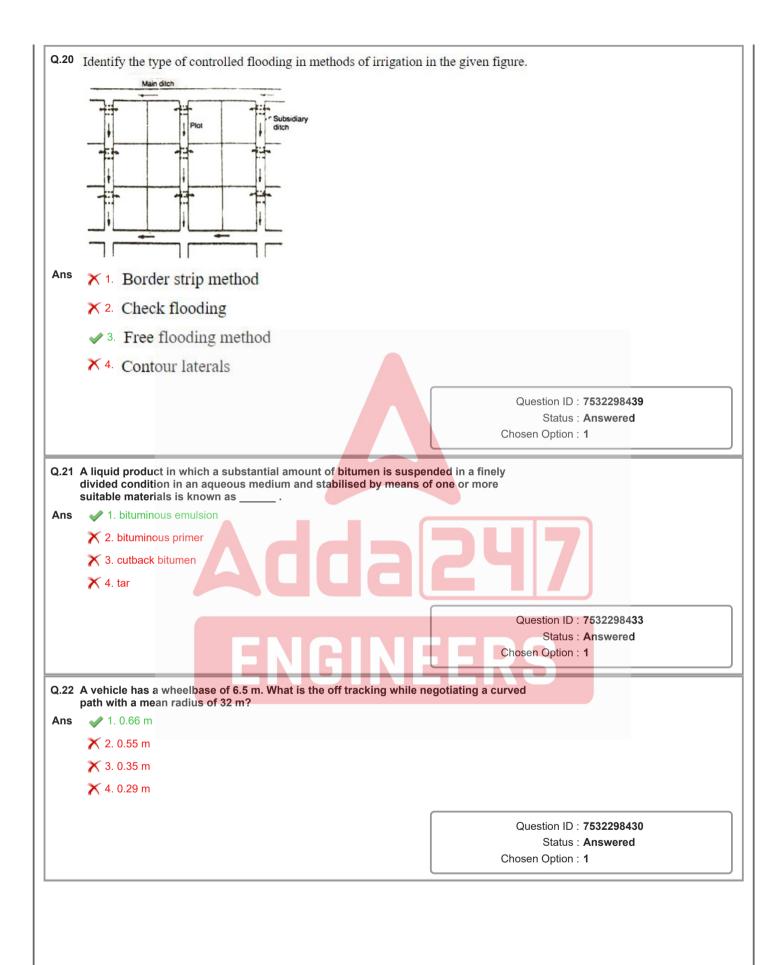
| .3 | While levelling, the hand signal 'Extension of arm h downwards' implies | | | |
|-------------|---|--|--|--|
| ns | 🗙 1. establish the position | | | |
| | 2. lower height peg or staff 3. return to me 4. raise height peg or staff | | | |
| | | | | |
| | | | | |
| | | Status : Answered | | |
| | | Chosen Option : 1 | | |
| | | | | |
| 2 .4 | A method of direct levelling the object of which is s elevation of two points regardless of the horizontal respect of each other is known as | solely to determine the difference in al positions of the points with | | |
| ns | X 1. cross-sectioning | | | |
| | ✓ 2. differential levelling | | | |
| | 🗙 3. profile levelling | | | |
| | X 4. reciprocal levelling | | | |
| | | | | |
| | | Question ID : 7532298420 | | |
| | | Status : Answered | | |
| | While aligning a hill road with a ruling gradient of 6' is encountered. Determine the compensated gradie ✓ 1. 4.75% ✓ 2. 1.25% | | | |
| | is encountered. Determine the compensated gradie 1. 4.75% | Chosen Option : 4 6%, a horizontal curve of radius 60 m | | |
| | is encountered. Determine the compensated gradie ✓ 1. 4.75% ✓ 2. 1.25% ✓ 3. 6% | Chosen Option : 4 6%, a horizontal curve of radius 60 m | | |
| | is encountered. Determine the compensated gradie ✓ 1. 4.75% ✓ 2. 1.25% ✓ 3. 6% | Chosen Option : 4 6%, a horizontal curve of radius 60 m ient at the curve. | | |
| | is encountered. Determine the compensated gradie ✓ 1. 4.75% ✓ 2. 1.25% ✓ 3. 6% | Chosen Option : 4 6%, a horizontal curve of radius 60 m ient at the curve. | | |
| Ans | is encountered. Determine the compensated gradie 1. 4.75% 2. 1.25% 3. 6% 4. 1.5% | Chosen Option : 4 6%, a horizontal curve of radius 60 m ient at the curve. Question ID : 7532298429 Status : Answered Chosen Option : 1 | | |
| Ans | is encountered. Determine the compensated gradie 1. 4.75% 2. 1.25% 3. 6% 4. 1.5% Consider the following statements regarding the ad | Chosen Option : 4 6%, a horizontal curve of radius 60 m ient at the curve. | | |
| Ans | is encountered. Determine the compensated gradie 1. 4.75% 2. 1.25% 3. 6% 4. 1.5% Consider the following statements regarding the ad S1: Rainfall is recorded automatically and therefore attendant. | Chosen Option : 4 6%, a horizontal curve of radius 60 m ient at the curve. | | |
| Ans | is encountered. Determine the compensated gradie 1. 4.75% 2. 1.25% 3. 6% 4. 1.5% Consider the following statements regarding the ad S1: Rainfall is recorded automatically and therefore | Chosen Option : 4 6%, a horizontal curve of radius 60 m ient at the curve. | | |
| Ans Q.6 | is encountered. Determine the compensated gradie 1. 4.75% 2. 1.25% 3. 6% 4. 1.5% Consider the following statements regarding the add S1: Rainfall is recorded automatically and therefore attendant. S2: Possibility of human error is obviated. S2: Possibility of human error is obviated. S3: Possibility of human error is obviated. S3: Possibility of human error is obviated. S4: Possibility of human error is obviated. | Chosen Option : 4 6%, a horizontal curve of radius 60 m ient at the curve. | | |
| Ans | is encountered. Determine the compensated gradie 1. 4.75% 2. 1.25% 3. 6% 4. 1.5% Consider the following statements regarding the ad S1: Rainfall is recorded automatically and therefore attendant. S2: Possibility of human error is obviated. Select the appropriate option. | Chosen Option : 4 6%, a horizontal curve of radius 60 m ient at the curve. | | |
| Ans | is encountered. Determine the compensated gradie 1. 4.75% 2. 1.25% 3. 6% 4. 1.5% Consider the following statements regarding the ad S1: Rainfall is recorded automatically and therefore attendant. S2: Possibility of human error is obviated. Select the appropriate option. 1. S1 is false but S2 is true | Chosen Option : 4 6%, a horizontal curve of radius 60 m ient at the curve. | | |
| Ans | is encountered. Determine the compensated gradie 1. 4.75% 2. 1.25% 3. 6% 4. 1.5% Consider the following statements regarding the add S1: Rainfall is recorded automatically and therefore attendant. S2: Possibility of human error is obviated. Select the appropriate option. 1. S1 is false but S2 is true 2. S1 is true but S2 is false | Chosen Option : 4 6%, a horizontal curve of radius 60 m ient at the curve. | | |
| Ans | is encountered. Determine the compensated gradie 1. 4.75% 2. 1.25% 3. 6% 4. 1.5% Consider the following statements regarding the ad S1: Rainfall is recorded automatically and therefore attendant. S2: Possibility of human error is obviated. Select the appropriate option. 1. S1 is false but S2 is true 2. S1 is true but S2 is false 3. Both S1 and S2 are true | Chosen Option : 4 6%, a horizontal curve of radius 60 m ient at the curve. | | |
| Ans | is encountered. Determine the compensated gradie 1. 4.75% 2. 1.25% 3. 6% 4. 1.5% Consider the following statements regarding the ad S1: Rainfall is recorded automatically and therefore attendant. S2: Possibility of human error is obviated. Select the appropriate option. 1. S1 is false but S2 is true 2. S1 is true but S2 is false 3. Both S1 and S2 are true | Chosen Option : 4 6%, a horizontal curve of radius 60 m ient at the curve. | | |

| | A non-destructive method of testing concrete, which is used to study the initiation and growth of cracks in concrete is | |
|-----|---|--|
| Ans | X 1. surface hardness tests | |
| | X 2. magnetic and electrical methods | |
| | X 3. combined methods | |
| | ✓ 4. acoustic emission techniques | |
| | | |
| | Question ID : 7532298441 Status : Answered | |
| | Chosen Option : 4 | |
| | | |
| | The ratio of loss of head in the orifice to the head of water available at the exit of the orifice is known as | |
| ns | | |
| | ✓ 2. coefficient of resistance | |
| | X 3. coefficient of contraction | |
| | X 4. coefficient of discharge | |
| | | |
| | Question ID : 7532298410 Status : Answered | |
| | Chosen Option : 3 | |
| | | |
| Ans | permeability? 1. Pumping-out test 2. Consolidation test data 3. Falling head permeability test 4. Constant head permeability test | |
| | | |
| | Question ID : 7532298469 | |
| | Status : Answered Chosen Option : 2 | |
| | | |
| i | A small rectangular or <mark>ifice 200 mm deep and 500 mm wide is discharging water under</mark> a constant head of 400 mm. What will be the discharge through the orifice (in litres), if the coefficient of discharge for the orifice is 0.6? | |
| Ans | 🗙 1. 152 | |
| | ✓ 2. 168 | |
| | 🗙 3. 139 | |
| | 🗙 4. 145 | |
| | | |
| | Question ID : 7532298411 | |
| | Status : Not Answered Chosen Option : | |



| Q.13 | Identify the type of stairs in the given figure. |
|------|--|
| | HALF LANDING |
| Ans | × 1. Open newel stairs with quarter space landing |
| | ✓ 2. Open well stairs |
| | × 3. Dog legged stairs |
| | × 4. Straight stairs |
| | Question ID : 7532298455 Status : Answered Chosen Option : 3 |
| Q.14 | Convert the whole circle bearing of 170° 12' to quadrantal bearing. |
| Ans | 1. S 9° 48' E X 2. S 9° 48' W X 3. S 350° 12' E X 4. S 350° 12' W |
| | ENGINE Question ID : 7532298416 Status : Answered Chosen Option : 1 |
| | An oven-dried soil having a mass of 200 g is placed in a pycnometer, which is then completely filled with water. The total mass of the pycnometer with water and soil inside is 1605 g. The pycnometer filled with water alone has a mass of 1480 g. Calculate the specific gravity of the soil. |
| Ans | 1. 2.67 |
| | X 2. 2.42 X 3. 2.80 |
| | X 4. 2.23 |
| | Question ID : 7532298463 Status : Answered Chosen Option : 1 |
| | |

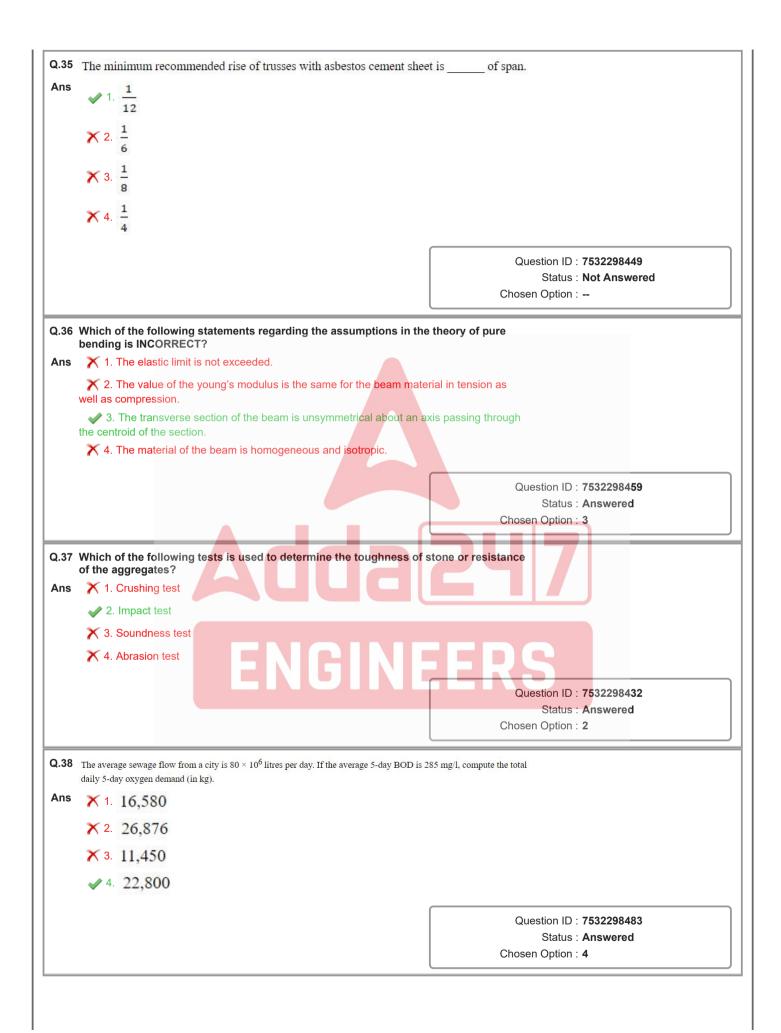
| | If the activity value of clay is greater than 1.40, then the clay is 1. active | |
|-------------|---|--|
| ns | X 2. inactive | |
| | X 3. normal | |
| | × 4. inert | |
| | A HIGH | |
| | | Question ID : 7532298466 |
| | | Status : Answered |
| | | Chosen Option : 1 |
| | The correct French formula to determine the diameter of rivet is where t = thickness of plate in mm and d = diameter of rivet. | s given by, |
| ns | X 1. d = 1.2t − 4 | |
| | ✓ 2. d = 1.5t + 4 | |
| | X 3. d = 1.2t + 4 | |
| | X 4. d = 1.5t − 4 | |
| | | |
| | | Question ID : 7532298451 |
| | | Status : Not Answered |
| | What is the effective length, if the degree of end restraint of con effectively held in position at both ends and restrained against | |
| | | Chosen Option : mpression member is |
| | effectively held in position at both ends and restrained against | Chosen Option : mpression member is |
| | effectively held in position at both ends and restrained against X 1. 1.2 × clear span | Chosen Option : mpression member is |
| | effectively held in position at both ends and restrained against 1. 1.2 × clear span 2. 1.0 × clear span | Chosen Option : mpression member is |
| | effectively held in position at both ends and restrained against X 1. 1.2 × clear span X 2. 1.0 × clear span ✓ 3. 0.8 × clear span | Chosen Option : mpression member is |
| | effectively held in position at both ends and restrained against X 1. 1.2 × clear span X 2. 1.0 × clear span ✓ 3. 0.8 × clear span | Chosen Option : mpression member is rotation at one end? Question ID : 7532298446 |
| | effectively held in position at both ends and restrained against X 1. 1.2 × clear span X 2. 1.0 × clear span ✓ 3. 0.8 × clear span | Chosen Option : mpression member is rotation at one end? |
| | effectively held in position at both ends and restrained against X 1. 1.2 × clear span X 2. 1.0 × clear span ✓ 3. 0.8 × clear span | Chosen Option : mpression member is rotation at one end? Question ID : 7532298446 Status : Answered |
| Ans | effectively held in position at both ends and restrained against 1. 1.2 × clear span 2. 1.0 × clear span 3. 0.8 × clear span 4. 0.65 × clear span A clay specimen has an unconfined compressive strength of 240 kN/m ² in an undistu | Chosen Option : mpression member is rotation at one end? Question ID : 7532298446 Status : Answered Chosen Option : 3 rbed state. Later, on remoulding. |
| Ans 0.19 | effectively held in position at both ends and restrained against 1. 1.2 × clear span 2. 1.0 × clear span 3. 0.8 × clear span 4. 0.65 × clear span A clay specimen has an unconfined compressive strength of 240 kN/m ² in an undistu the unconfined compressive strength is found to be 54 kN/m ² . Calculate the sensitivi | Chosen Option : mpression member is rotation at one end? Question ID : 7532298446 Status : Answered Chosen Option : 3 rbed state. Later, on remoulding. |
| Ans 0.19 | effectively held in position at both ends and restrained against 1. 1.2 × clear span 2. 1.0 × clear span 3. 0.8 × clear span 4. 0.65 × clear span A clay specimen has an unconfined compressive strength of 240 kN/m ² in an undistu the unconfined compressive strength is found to be 54 kN/m ² . Calculate the sensitivi 1. 5.22 | Chosen Option : mpression member is rotation at one end? Question ID : 7532298446 Status : Answered Chosen Option : 3 rbed state. Later, on remoulding. |
| Ans 0.19 | effectively held in position at both ends and restrained against 1. 1.2 × clear span 2. 1.0 × clear span 3. 0.8 × clear span 4. 0.65 × clear span 5. 210 5. 220 5. 2. 7.23 | Chosen Option : mpression member is rotation at one end? Question ID : 7532298446 Status : Answered Chosen Option : 3 rbed state. Later, on remoulding. |
| Ans 0.19 | effectively held in position at both ends and restrained against 1. 1.2 × clear span 2. 1.0 × clear span 3. 0.8 × clear span 4. 0.65 × clear span 4. 0.65 × clear span 1. 5.22 2. 7.23 3. 3.23 | Chosen Option : mpression member is rotation at one end? Question ID : 7532298446 Status : Answered Chosen Option : 3 rbed state. Later, on remoulding. |
| Ans | effectively held in position at both ends and restrained against 1. 1.2 × clear span 2. 1.0 × clear span 3. 0.8 × clear span 4. 0.65 × clear span 5. 210 5. 220 5. 2. 7.23 | Chosen Option : mpression member is rotation at one end? Question ID : 7532298446 Status : Answered Chosen Option : 3 rbed state. Later, on remoulding. |
| Ans Q.19 | effectively held in position at both ends and restrained against 1. 1.2 × clear span 2. 1.0 × clear span 3. 0.8 × clear span 4. 0.65 × clear span 4. 0.65 × clear span 1. 5.22 2. 7.23 3. 3.23 | Chosen Option : mpression member is rotation at one end? Question ID : 7532298446 Status : Answered Chosen Option : 3 rbed state. Later, on remoulding. |
| Ans Q.19 | effectively held in position at both ends and restrained against 1. 1.2 × clear span 2. 1.0 × clear span 3. 0.8 × clear span 4. 0.65 × clear span 4. 0.65 × clear span 1. 5.22 2. 7.23 3. 3.23 | Chosen Option : mpression member is rotation at one end? Question ID : 7532298446 Status : Answered Chosen Option : 3 Proted state. Later, on remoulding. Hy of clay. |



| | manganese in the absence of an alternate so | burce is |
|-------------|---|---|
| ns | 🗙 1. 0.1 mg/l | |
| | 🗙 2. 0.2 mg/l | |
| | ✔ 3. 0.3 mg/l | |
| | 🗙 4. 0.5 mg/l | |
| | | |
| | | Question ID : 7532298464 Status : Answered |
| | | Chosen Option : 1 |
| 24 | Find the magnetic declination at a place, if the n | nagnetic hearing of the sun at noon is 350° 20' |
| ns | X 1. 9° 40′ W | include bearing of the sun at noon is 550° 20. |
| | | |
| | × 2. 8° 40′ E | |
| | ✓ 3. 9° 40' E | |
| | X 4. 8° 40′ W | |
| | | Question ID : 7532298418 |
| | | Status : Answered |
| | | Chosen Option : 3 |
| .25 | A type of manhole which is about 0.7 to 0.9 r of branch sewer or at places which are NOT | m in depth and is constructed at the start subjected to heavy traffic is known as |
| Q.25 Ans | A type of manhole which is about 0.7 to 0.9 r of branch sewer or at places which are NOT 1. shallow manhole 2. deep manhole 3. medium manhole 4. normal manhole | n in depth and is constructed at the start subjected to heavy traffic is known as |
| | of branch sewer or at places which are NOT 1. shallow manhole 2. deep manhole 3. medium manhole | n in depth and is constructed at the start subjected to heavy traffic is known as |
| | of branch sewer or at places which are NOT 1. shallow manhole 2. deep manhole 3. medium manhole | subjected to heavy traffic is known as |
| Ans | of branch sewer or at places which are NOT 1. shallow manhole 2. deep manhole 3. medium manhole 4. normal manhole | subjected to heavy traffic is known as |
| | of branch sewer or at places which are NOT 1. shallow manhole 2. deep manhole 3. medium manhole | subjected to heavy traffic is known as |
| | of branch sewer or at places which are NOT 1. shallow manhole 2. deep manhole 3. medium manhole 4. normal manhole Which of the following orifices is classified a | subjected to heavy traffic is known as |
| | of branch sewer or at places which are NOT 1. shallow manhole 2. deep manhole 3. medium manhole 4. normal manhole Which of the following orifices is classified a 1. Large orifice | subjected to heavy traffic is known as |
| Ans 0.26 | of branch sewer or at places which are NOT 1. shallow manhole 2. deep manhole 3. medium manhole 4. normal manhole Which of the following orifices is classified at a large orifice 2. Circular orifice | subjected to heavy traffic is known as |
| Ans | of branch sewer or at places which are NOT 1. shallow manhole 2. deep manhole 3. medium manhole 4. normal manhole 4. normal manhole Which of the following orifices is classified at 1. Large orifice 2. Circular orifice 3. Bell-mouthed orifice | subjected to heavy traffic is known as Question ID : 7532298481 Status : Answered Chosen Option : 3 according to the shape of its edge? |
| Ans | of branch sewer or at places which are NOT 1. shallow manhole 2. deep manhole 3. medium manhole 4. normal manhole 4. normal manhole Which of the following orifices is classified at 1. Large orifice 2. Circular orifice 3. Bell-mouthed orifice | subjected to heavy traffic is known as |

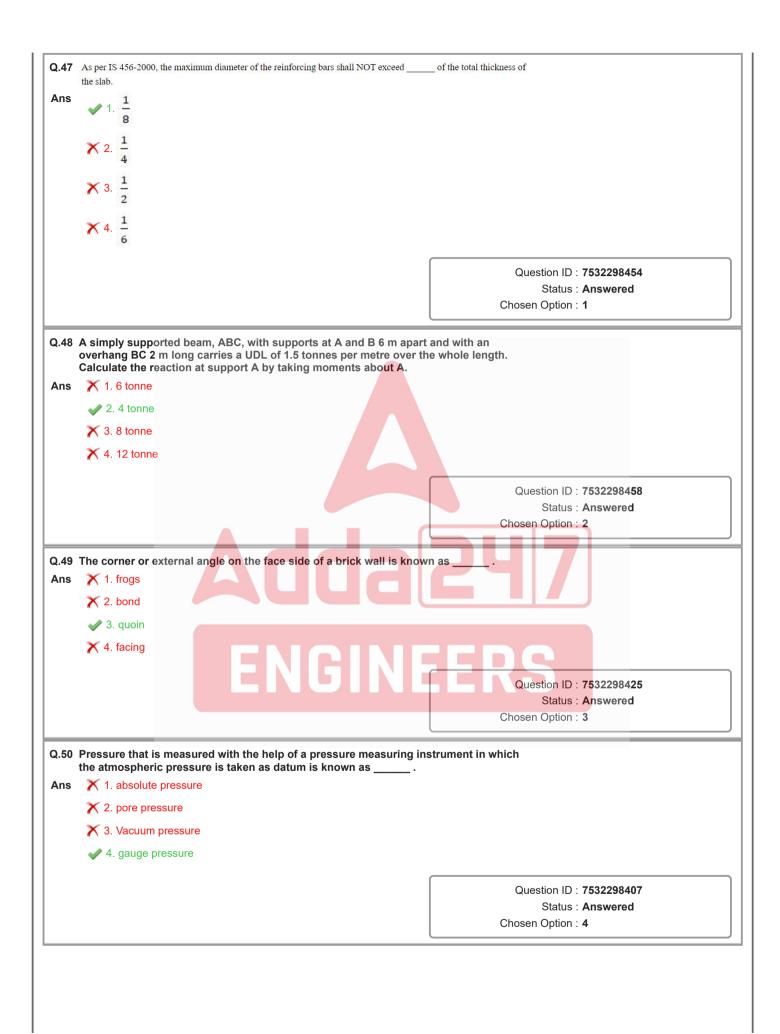
| | Which of the following statements regarding the prismatic compass is INCORRECT? | | |
|------|--|--|--|
| Ans | 1. The graduations are engraved erect. 2. Sighting and reading taking can be done simultaneously from one position of the observer. | | |
| | | | |
| | imes 3. The needle is of broad needle type and it doesn't act as index. | | |
| | ightarrow 4. The eye vane consists of a small metal vane with a slit. | | |
| | Question ID : 7532298417 | | |
| | Status : Answered | | |
| | Chosen Option : 1 | | |
| Q.28 | 8 Piles driven at an inclination to the vertical to resist the inclined forces are called | | |
| Ans | s X 1. sheet piles | | |
| | ✓ 2. battered piles | | |
| | 🗙 3. bearing piles | | |
| | X 4. friction piles | | |
| | | | |
| | Question ID : 7532298423 | | |
| | Status : Answered Chosen Option : 2 | | |
| | | | |
| Q.29 | ⁹ Identify the type of pressed brick (or specially shaped brick) in the given figure. | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Ans | S X 1. Coping brick | | |
| | ✓ ^{2.} Cow noise | | |
| | | | |
| | × 3. Curved ENGNEERS | | |
| | X4. Cant LINUINLLNU | | |
| | Question ID : 7532298424 | | |
| | Status : Answered | | |
| | Chosen Option : 4 | | |
| | | | |
| | 0 In estimation, which method is adopted when the external wall has one thickness and the internal walls have different thicknesses? | | |
| Ans | | | |
| | X 2. Bay method | | |
| | X 3. Centre line method | | |
| | ✓ 4. Partly centre line and partly cross wall method | | |
| | | | |
| | | | |
| | Question ID : 7532298427 | | |
| | Question ID : 7532298427 Status : Answered Chosen Option : 4 | | |

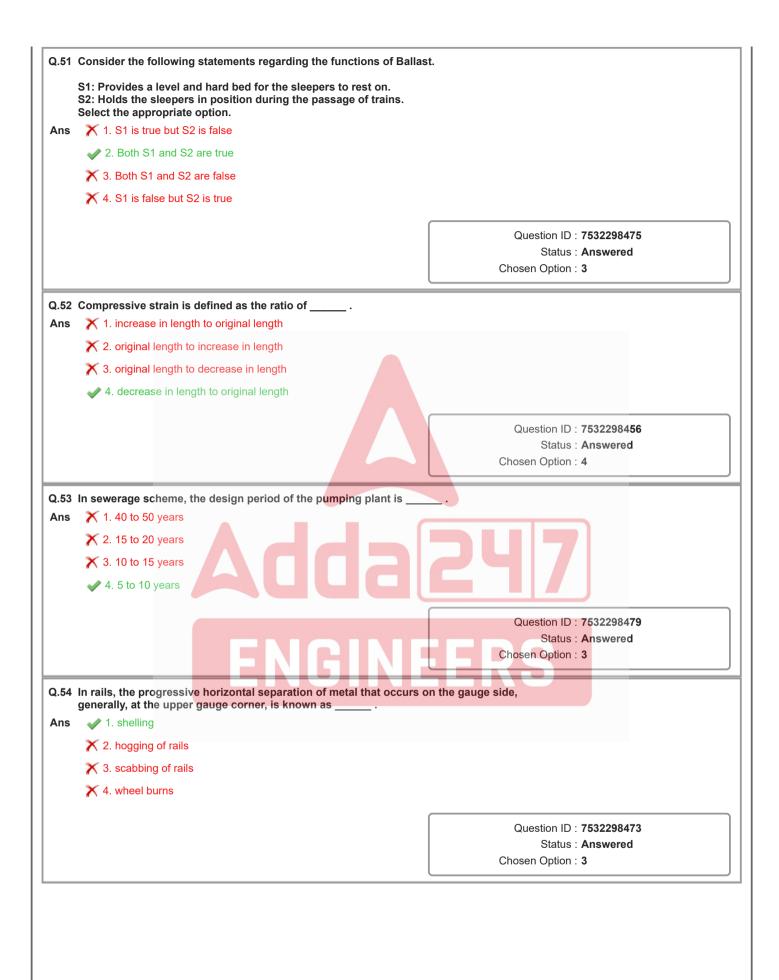
| าร | bars in compression. | | | |
|------|---|---|--|--|
| - | ∑ 2. 20% | | | |
| | × 3. 40% | | | |
| | ✓ 4. 25% | | | |
| | • | | | |
| | | Question ID : 7532298452 | | |
| | | Status : Answered Chosen Option : 4 | | |
| | | | | |
| Q.32 | A rod is 3 m long at 10° C. Find the expansion of the rod, when the temp Take $E = 1 \times 10^6$ kg/cm ² and $\alpha = 0.000012$ per degree Celsius. | perature is raised to 60° C. | | |
| Ans | × 1. 0.21 cm | | | |
| | × 2. 0.32 cm | | | |
| | ✓ ^{3.} 0.18 cm | | | |
| | ★ 4. 0.25 cm | | | |
| | | | | |
| | | Question ID : 7532298457 Status : Answered | | |
| | | Chosen Option : 1 | | |
| | | | | |
| | The width of the broad gauge on Indian railways is | | | |
| Ans | X 1. 2 feet | | | |
| | X 2. 2 feet 6 inches | | | |
| | ✓ 3. 5 feet 6 inches ✓ 4. 2 feet 2 27 inches | | | |
| | X 4. 3 feet 3.37 inches | | | |
| | | Question ID : 7532298472 | | |
| | | Status : Answered | | |
| | | Chosen Option:3 | | |
| | The broad gauge centre-to-centre (in mm), for spacing of sleepe | | | |
| Ans | track between joint wooden sleepers and the first shoulder wood | | | |
| | ✓ 2. 610 | | | |
| | 3. 840 | | | |
| | X 4. 700 | | | |
| | | | | |
| | | Question ID : 7532298474 | | |
| | | Status : Not Answered Chosen Option : | | |
| | | | | |



| 2.39 | 9 Consider the following statements regarding the advantages of vitrified cl stoneware sewers. | ay or |
|-------------|--|---|
| | S1: Interiors are very smooth, and they are hydraulically very efficient. S2: They are highly impervious and do not allow any sewage to seep out of Select an appropriate option. | of them. |
| Ans | | |
| | 🗙 2. S1 is false but S2 is true | |
| | ✓ 3. Both S1 and S2 are true | |
| | 🗙 4. Both S1 and S2 are false | |
| | | |
| | | Question ID : 7532298480 |
| | | Status : Answered Chosen Option : 3 |
| | | · |
| .40 | 0 Which colour is used to show the anticipated progress in bar charts? | |
| Ans | * | |
| | X 2. Blue | |
| | X 3. Green | |
| | X 4. Red | |
| | | Question ID : 7532298478 |
| | | Status : Answered |
| | | Chosen Option : 3 |
| | | |
| Q.41 Ans | 1 A solid circular shaft transmits 100 hp at 200 rpm. Calculate the torsion of s X 1. 421.22 kg m | f the shaft. |
| 4115 | | |
| | X 2. 543.42 kg m | |
| | X 3. 586.45 kg m | |
| | ✔ 4. 358.10 kg m | |
| | | Question ID : 7532298450 |
| | | Status : Answered |
| | | Chosen Option : 1 |
| 40 | 2. The effective direct that evides in a costing and determines the mention | m load that |
| Į.42 | 2 The steepest gradient that exists in a section and determines the maximum can be hauled by a locomotive on that section is known as | in load that |
| | s 🗙 1. gradient in station yards | |
| ns | | |
| ns | X 2. pusher gradient | |
| Ans | | |
| Ans | X 2. pusher gradient | |
| Ans | 2. pusher gradient 3. ruling gradient | |
| Ans | 2. pusher gradient 3. ruling gradient | Question ID : 7532298476 |
| Ans | 2. pusher gradient 3. ruling gradient | Question ID : 7532298476 Status : Answered Chosen Option : 3 |

| Q.43 | In welding, the local decrease of the thickness of the parent metal at the weld toe, which is caused by the use of excessive current or a very long arc is known as |
|------|--|
| Ans | I. undercutting |
| | X 2. incomplete fusion |
| | X 3. incomplete penetration |
| | X 4. cracks |
| | |
| | Question ID : 7532298444 Status : Not Answered |
| | Chosen Option : |
| Q.44 | Find the pressure at a point 4 m below the free surface of water. Take density of water as 9.81 kN/m ³ . |
| Ans | × 1. 27.65 kPa |
| | ✓ ² . 39.24 kPa |
| | × 3. 42.22 kPa |
| | × 4. 50.21 kPa |
| | |
| | Question ID : 7532298405 |
| | Status : Answered Chosen Option : 2 |
| | |
| | As per IS 456-2000, the formula to estimate short term modulus of elasticity of concrete is |
| Ans | |
| | 0.7 × (Characteristic cube compressive strength of concrete in $\frac{N}{mm^2}$) |
| | ✓ 2. |
| | $5000 \times {}^{2}$ Characteristic cube compressive strength of concrete in $\frac{N}{1-N}$ |
| | × 3. |
| | 5000 × (Characteristic cube compressive strength of concrete in $\frac{N}{2}$) |
| | mm ² |
| | |
| | $0.7 \times \sqrt[2]{\text{Characteristic cube compressive strength of concrete in } \frac{N}{mm^2}}$ |
| | |
| | Question ID : 7532298436 Status : Answered |
| | Chosen Option : 2 |
| Q.46 | Which of the following statements regarding the assumptions and limitations of |
| Ans | Dupuit's theory is INCORRECT? 1 . The velocity is inversely proportional to the tangent of the hydraulic gradient instead |
| | of its sine. |
| | X 2. The flow is horizontal and uniform everywhere in the vertical section. |
| | X 3. The co-efficient of transmissibility is constant at all places and at all times. |
| | X 4. Flow is laminar. |
| | Question ID : 7532298470 |
| | Status : Answered |
| | Chosen Option : 1 |





| Q.55 | 5 is defined as the variation in its volume with the variation of press | ure. |
|------|--|--|
| Ans | | |
| | 2. Compressibility of liquid | |
| | X 3. Surface tension of water | |
| | X 4. Specific weight of liquid | |
| | | |
| | | Question ID : 7532298406 |
| | | Status : Answered Chosen Option : 2 |
| | | |
| Q.56 | 6 In Soil Engineering, the toughness index is defined as | |
| Ans | 1. product of flow index and plasticity index | |
| | \mathbf{X} 2. ratio of flow index to plasticity index | |
| | ✓ 3. ratio of plasticity index to flow index | |
| | ✗ 4. sum of flow index and plasticity index | |
| | | |
| | | Question ID : 7532298465 |
| | | Status : Answered Chosen Option : 3 |
| | | |
| Q.57 | 7 Darjeeling Himalayan Railway section is an example of | |
| Ans | s X 1. ruling gradient | |
| | 2. pusher gradient | |
| | X 3. momentum gradient | |
| | X 4. gradient in station yards | |
| | | |
| | | Question ID : 7532298477 Status : Answered |
| | | Chosen Option : 2 |
| | | |
| | 8 An example of irregular shaped aggregate is | |
| Ans | | |
| | X 2. crushed slag | |
| | X 3. wind-blown sand | |
| | 4. land or dug flint | |
| | | Question ID : 7532298435 |
| | | Status : Not Answered |
| | | Chosen Option : |
| | | |
| Q.59 | 9 In Soil Engineering, the mass of soil solids per unit of volume of solids is b | nown as |
| Ans | T. submerged density | |
| | X 2. saturated density | |
| | ✓ 3. density of solids | |
| | X 4. dry density | |
| | | |
| | | Question ID : 7532298462 |
| | | Status : Answered Chosen Option : 3 |
| | | |

| | Clays having sensitivity greater than are known as quick clays. |
|------|--|
| Ans | × 1.8 |
| | × 2.6 |
| | ★ 3.12 |
| | A. 16 |
| | Question ID : 7532298467 |
| | Status : Answered |
| | Chosen Option : 4 |
| | Which of the following statements regarding the assumptions in the theory of riveted connections is INCORRECT? |
| Ans | X 1. Friction between the plates is neglected. |
| | imes 2. Shear stress is uniform on the cross-section of the rivet. |
| | ✗ 3. Rivets in a group subjected to direct loads share the load equally. |
| | ✓ 4. Bending stress in the rivet is considered. |
| | |
| | Question ID : 7532298445 Status : Answered |
| | Chosen Option : 4 |
| | |
| | is the result of capillary movement in the p <mark>ores in concrete, wh</mark> ich are open to the ambient medium. |
| Ans | X 1. Diffusion |
| | X 2. Permeability |
| | X 3. Flow |
| | ✓ 4. Sorption |
| | |
| | Question ID : 7532298437 Status : Answered |
| | Chosen Option : 2 |
| | |
| Q.63 | Identify the type of rivet in the given figure. |
| | |
| | |
| | |
| | |
| | |
| Ans | ✓ ¹ Brazier head rivet |
| | × 2. Cone head rivet |
| | × 3 Flat top counter sunk head |
| | × 4. Tinners rivet |
| | |
| | Question ID : 7532298443 |
| | Status : Answered Chosen Option : 1 |
| | |

| | 🗙 1. stream lines | |
|-------------|---|---|
| | 🗙 2. potential lines | |
| | 🛷 3. steak lines | |
| | 🗙 4. path lines | |
| | | |
| | | Question ID : 7532298408 Status : Answered |
| | | Chosen Option : 3 |
| | | |
| | The unit of measurement is square metres | ; in case of |
| ns | \mathbf{X} 1. rubble masonry | |
| | X 2. stone masonry | |
| | 3. brickwork in the partition wall | |
| | X 4. brickwork in the foundation | |
| | | Question ID : 7532298428 |
| | | Status : Answered |
| | | Chosen Option : 3 |
| | ★ 2. 350 ★ 3. 180 ◆ 4. 250 | Question ID : 7532298447 Status : Answered |
| | | Chosen Option : 4 |
| .67 | A flow in which the quantity of liquid flowi | |
| | | |
| | 1. incompressible flow | |
| | 1. incompressible flow 2. non-uniform flow | |
| | 1. incompressible flow 2. non-uniform flow 3. unsteady flow | |
| | 1. incompressible flow 2. non-uniform flow | |
| | 1. incompressible flow 2. non-uniform flow 3. unsteady flow | |
| 0.67 Ans | 1. incompressible flow 2. non-uniform flow 3. unsteady flow | ing per second is NOT constant is called |

| Q.68 | Which of the following statements regarding the high rate trickling filter is INCORRECT? |
|------|--|
| Ans | 1. The cost of operation is more for treating an equal quantity of sewage. |
| | X 2. The depth of filter media varies between 1.2 m and 1.8 m. |
| | X 3. The size of filter media varies from 25 mm to 60 mm. |
| | X 4. Less land area is required as the filter loading is more. |
| | |
| | Question ID : 7532298414 |
| | Status : Not Answered Chosen Option : |
| | |
| Q.69 | An Engineer's Chain is |
| Ans | 🗙 1. 33 ft long and consists of 16 links |
| | 🗙 2. 66 ft long and consists of 100 links |
| | 🗙 3. 66 ft long and consists of 66 links |
| | ✓ 4. 100 ft long and consists of 100 links |
| | |
| | Question ID : 7532298413 |
| | Status : Answered Chosen Option : 2 |
| | |
| Ans | X 1. shrinkage X 2. cracking V 3. bleeding |
| | X 4. segregation |
| | Question ID : 7532298442 |
| | Status : Answered Chosen Option : 3 |
| | |
| Q.71 | The unit of measurement for fabric reinforcement and wire netting is |
| Ans | X 1. cubic metre |
| | X 2. quintal |
| | X 3. metre |
| | ✓ 4. square metre |
| | |
| | Question ID : 7532298426 |
| | Status : Answered |
| | |

| Q.72 | Which of the following statements regarding the advantages of plane tabling is INCORRECT? |
|------|---|
| Ans | \mathbf{X} 1. Direct measurements may be almost entirely dispensed with, as the linear and angular are both to be obtained by graphical means. |
| | X 2. The surveyor can compare plotted work with the actual features of the area. |
| | ✓ 3. Plane tabling is most suitable for large scale maps. |
| | X 4. Plane tabling is particularly useful in magnetic areas where a compass may not be used. |
| | Question ID : 7532298422 Status : Answered Chosen Option : 4 |
| Q.73 | Identify the conventional symbol (in surveying) in the given figure. |
| | |
| Ans | X 1. Ford X 2. Level crossing |
| | |
| | × 3. Stream |
| | ✓ 4. Dam |
| | Question ID : 7532298415 Status : Not Answered Chosen Option : |
| Q.74 | Which of the following statement regarding the lap splices is INCORRECT as per IS 456-2000? |
| Ans | 1. When bars of two different diameters are to be spliced, the lap length should be calculated on the basis of the diameter of the larger bar. 2. Lap splices shall not be used for bars larger than 36 mm. 3. Lap splices shall be considered as staggered, if the centre to centre distance of the splices is not less than 1.3 times the lap length. |
| | X 4. Where splices are provided in the reinforcing bars, they shall as far as possible be away from the sections of maximum stress and be staggered. |
| | Question ID : 7532298453 Status : Answered Chosen Option : 3 |
| Q.75 | The duty is 1420 ha/cumec and the base period is 60 days for a crop. Calculate the delta for the given crop. |
| Ans | X 1. 0.611 m |
| | X 2. 0.423 m |
| | ✗ 3. 0.542 m |
| | ✓ 4. 0.365 m |
| | Question ID : 7532298438 Status : Answered Chosen Option : 4 |

| ne | A rotating biological contactor is an | |
|--------------|--|--|
| Ans | | |
| | X 2. anaerobic suspended culture | |
| | X 3. anaerobic attached culture | |
| | 4. aerobic attached culture | |
| | | Question ID : 7532298484 |
| | | Status : Answered |
| | | Chosen Option : 4 |
| <u>ג</u> .77 | Section modulus is defined as the | |
| Ans | X 1. ratio of distance of the most distant point from the neutral axis to | moment of inertia |
| | about the neutral axis 2. ratio of moment of inertia about the neutral axis to distance of th | e most distant point |
| | from the neutral axis | |
| | X 3. sum of moment of inertia about the neutral axis and distance of t from the neutral axis | he most distant point |
| | \mathbf{X} 4. product of moment of inertia about the neutral axis and distance | of the most distant |
| | point from the neutral axis | |
| | | Question ID : 7532298461 |
| | | Status : Answered |
| | | |
| Q.78 | Identify the type of interchange in traffic engineering in | Chosen Option : 2 the given figure. |
| Q.78 Ans | Identify the type of interchange in traffic engineering in | |
| | X 1. Diamond Y 2. Rotary | |
| | X 1. Diamond 2. Rotary X 3. Partial clover leaf | |
| | X 1. Diamond Y 2. Rotary X 3. Partial clover leaf | |

