



GOVT. OF NCT OF DELHI

Delhi Subordinate Services Selection Board FC-18, Institutional Area, Karkardooma, Delhi - 110092. www.dsssb.delhigovt.nic.in

| Participant ID | |
|------------------|--|
| Participant Name | |
| Test Center Name | East Delhi Assessment Zone |
| Test Date | 29/06/2022 |
| Test Time | 8:30 AM - 10:30 AM |
| Subject | Junior Engineer (Civil) or Section Officer (Civil) |

Section: Mental Ability

Q.1 In a code language, JOYFUL is written as 534, how will PLAYER be written in that language?

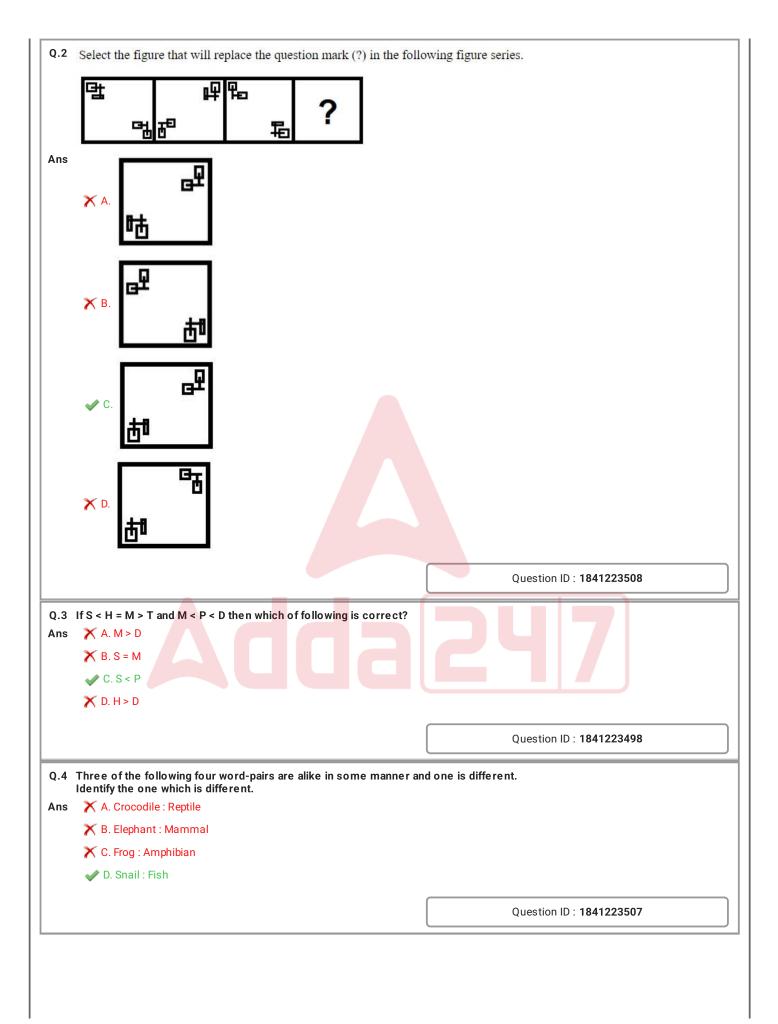
Ans X A. 430

X B. 488

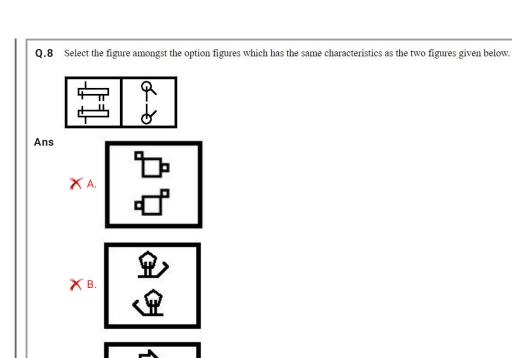
✓ C. 462

X D. 451





| Q.5 | Three of the following four letter-clusters are alike in some manner and one is different. Identify the one which is different. |
|-----|---|
| Ans | ✓ A. RUXAC |
| | ★ B. EHKNQ |
| | ★ C. TWZCF |
| | ★ D. KNQT W |
| | |
| | Question ID : 1841223506 |
| Q.6 | Select the option that is related to the third term in the same way as the second term is related to the first term. |
| | MTE: NGV:: PDX: |
| Ans | ✓ A. KWC |
| | X B. KVD |
| | X C. SXB |
| | X D. LWC |
| | |
| | Question ID : 1841223505 |
| Q.7 | Select the letter cluster that will replace the question mark (?) in the following series. |
| | HQT, KUY, NYD, QCI, ? |
| Ans | X A. TFL |
| | → B. TGN |
| | X C. SGN |
| | ★ D. TFM |
| | |
| | Question ID : 1841223499 |
| | Adda[24]7 |



Question ID: 1841223510

Q.9 Which two numbers should be interchanged to make the given equation correct?

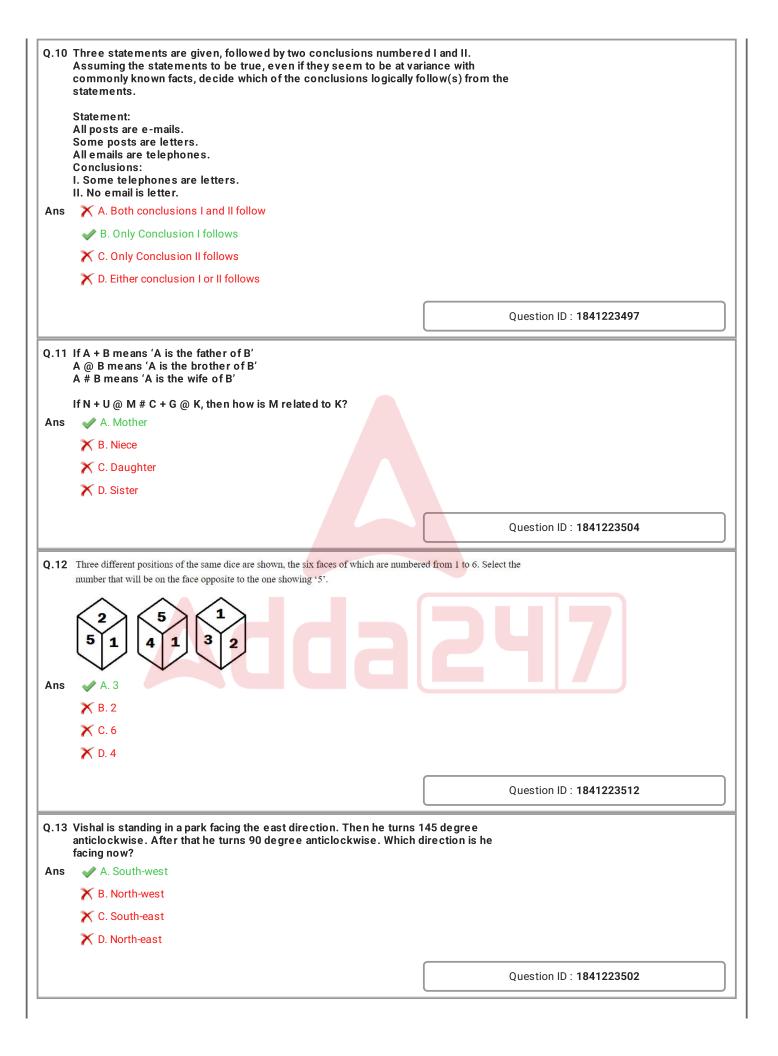
$$20 \times 8 + 16 \div 4 - 36 = 46$$

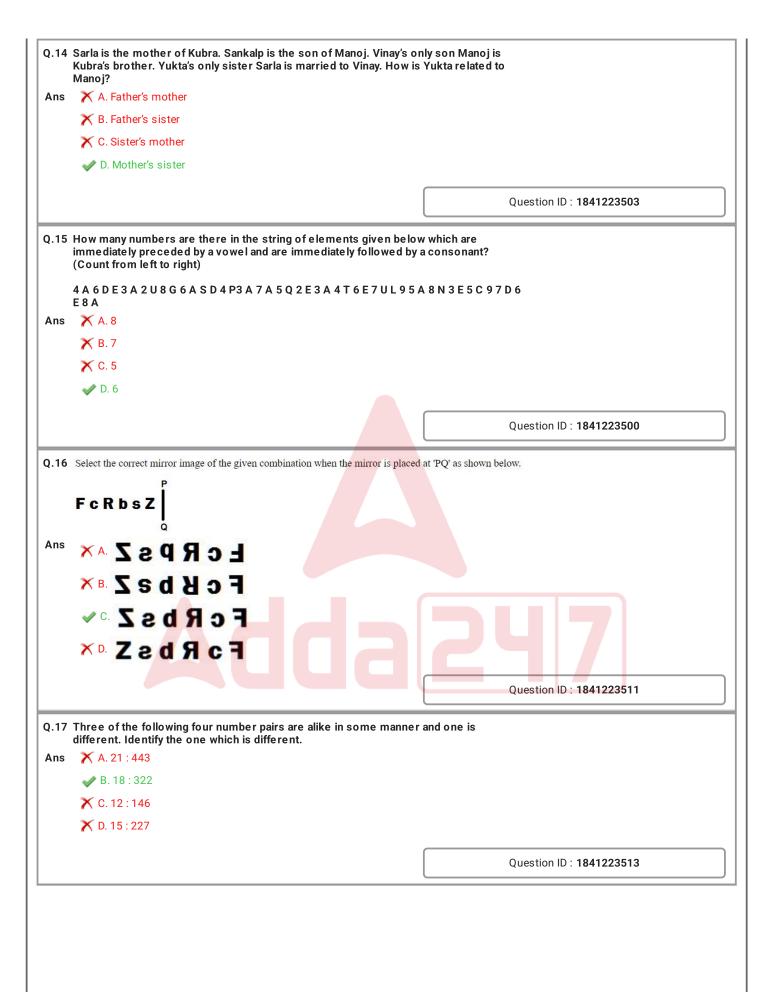
Ans X A. 16 and 36

X B. 8 and 36

X C. 20 and 36

✓ D. 8 and 4





| Q.18 | Among six friends K, L, M, N, O and P; K scores more marks than P but lesser marks |
|------|--|
| | than N. M scores lesser marks than L. O scores the highest marks. Three persons |
| | scores more marks than N. Who scores the lowest marks? |

Ans X A. M

X B. L

X C. K

✓ D. P

Question ID: 1841223495

Q.19 Five persons A, B, C, D and E attend class on one of the five days from Monday to Friday. On each day, one person attends the class. No class is held on Saturday and Sunday. D attends the class on Monday. E attends just after B. C does not attend the class on Tuesday. B is just after A. Who attends the class on Thursday?

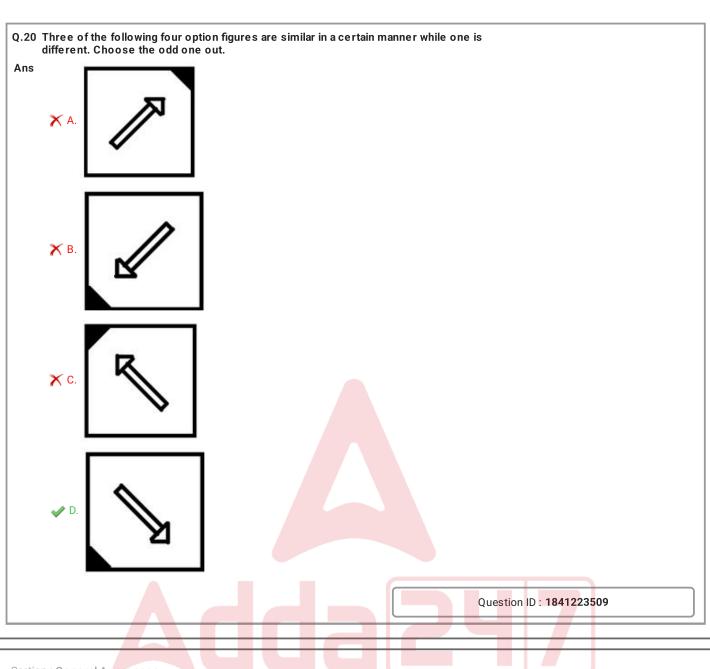
Ans X A. B

X B. A

X C. C

✓ D. E





Section: General Awareness

Q.1 Who among the following has been honored with DRDO's "Scientist of the Year Award" in 2020 for his contribution in developing several herbal medicines, including the popular drug Lukoskin meant for the treatment of leukoderma?

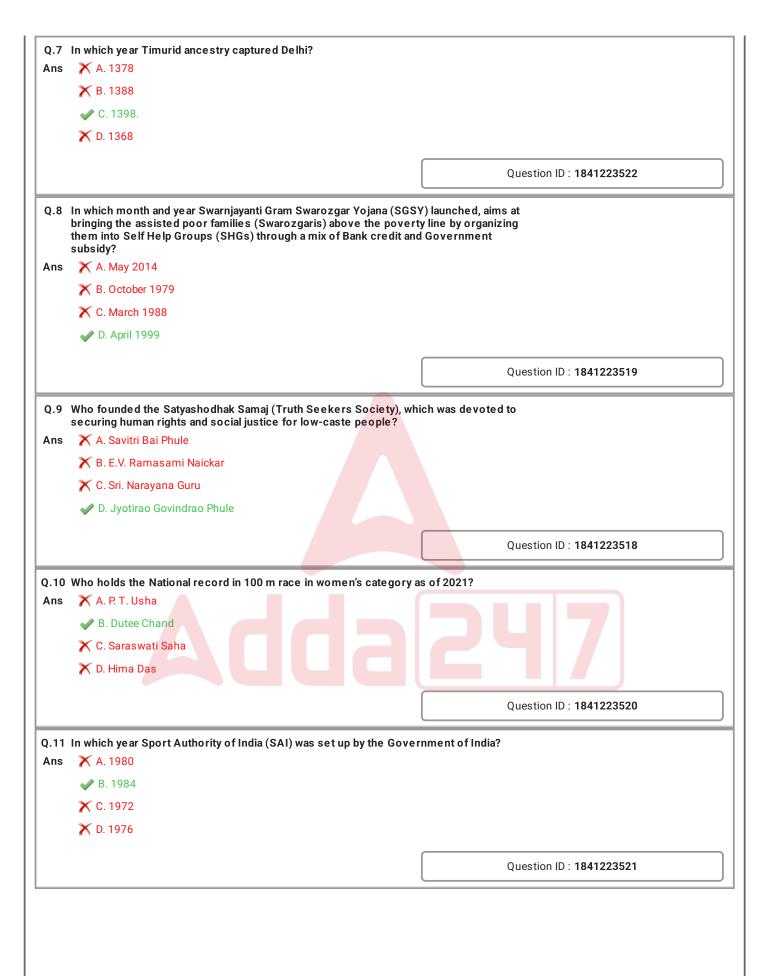
Ans X A. Debdeep Mukhopadhyay

X B. Saket Saurabh

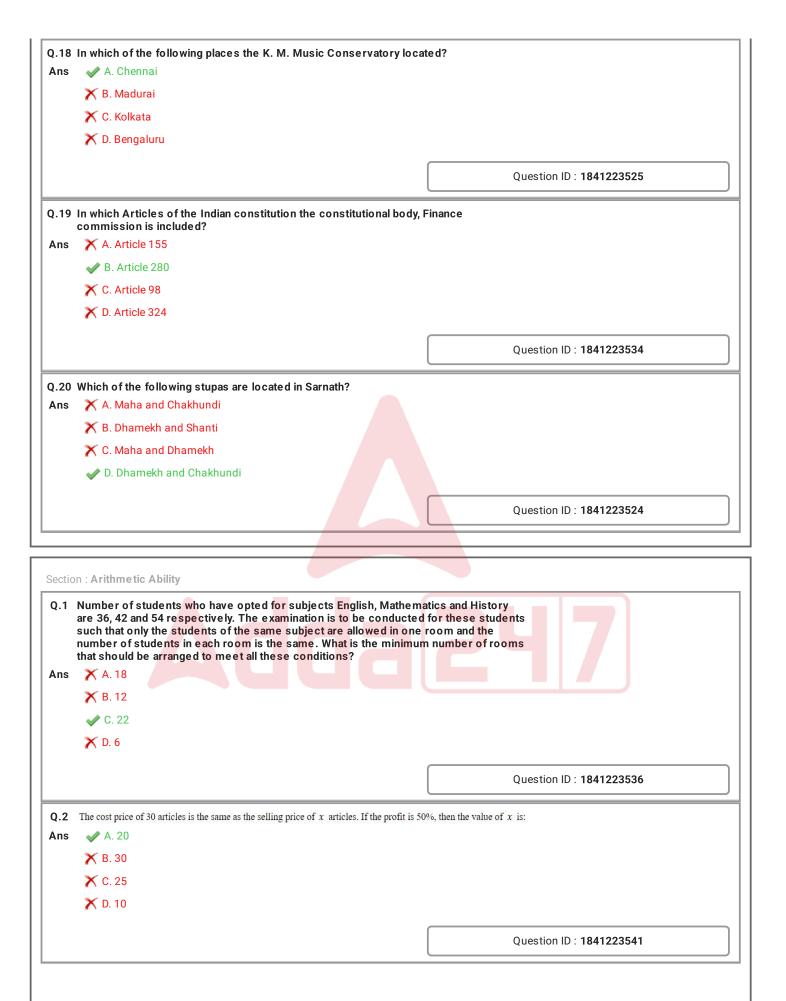
X C. Arun Kumar Shukla

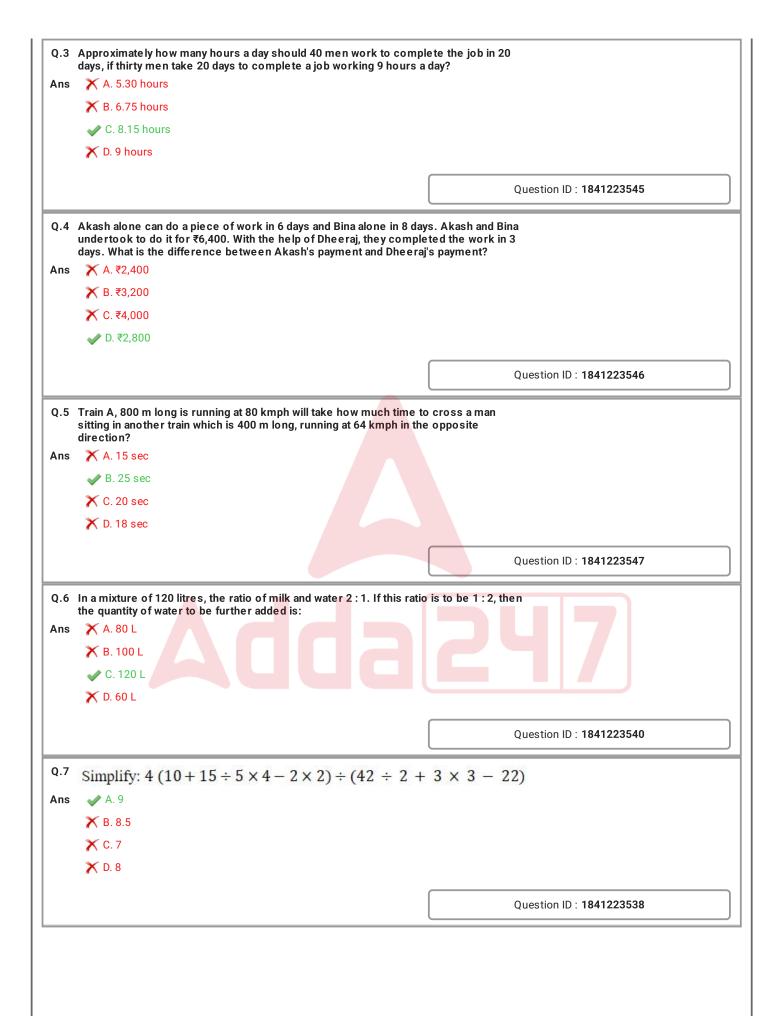
D. Hemant Kumar Pandey

| Q.2 | Which of the following features in the Indian constitution was borrow constitution of France? | ved from the |
|-----|--|---------------------------------|
| Ans | X A. Method of election of President | |
| | X B. Judicial review | |
| | ★ C. Fundamental duties | |
| | ✓ D. Concept of Republic | |
| | | |
| | | Question ID : 1841223533 |
| Q.3 | In which year the Congress and the Muslim League signed the histo and decided to work together for representative government in the | |
| Ans | ✓ A. 1916 | |
| | ★ B. 1915 | |
| | X C. 1919 | |
| | X D. 1920 | |
| | | Outstian ID : 1041003503 |
| | | Question ID : 1841223523 |
| Q.4 | Which of the following statements is CORRECT? | |
| Ans | X A. GPS has four segments. | |
| | X B. GPS has five segments. | |
| | ✓ C. GPS has three segments. | |
| | X D. GPS has two segments. | |
| | | |
| | | Question ID : 1841223517 |
| Q.5 | In which year the American astronaut, Neil Armstrong, landed on the first time? | e moon for the |
| Ans | X A. 1971 | |
| | ★ B. 1968 | |
| | ★ C. 1970 | JUI /I |
| | ✓ D. 1969 | |
| | | |
| | | Question ID : 1841223532 |
| Q.6 | Which of the following department / ministry has been allocated ₹18 under the Union Budget 2021-22? | ,264.89 crore |
| Ans | ✓ A. The Department of Atomic Energy | |
| | X B. The Ministry of Earth Sciences | |
| | C. The Ministry of Science and Technology | |
| | X D. The Department of Science and Technology | |
| | | 0 11 12 121222 |
| | | Question ID : 1841223527 |
| | | |
| | | |

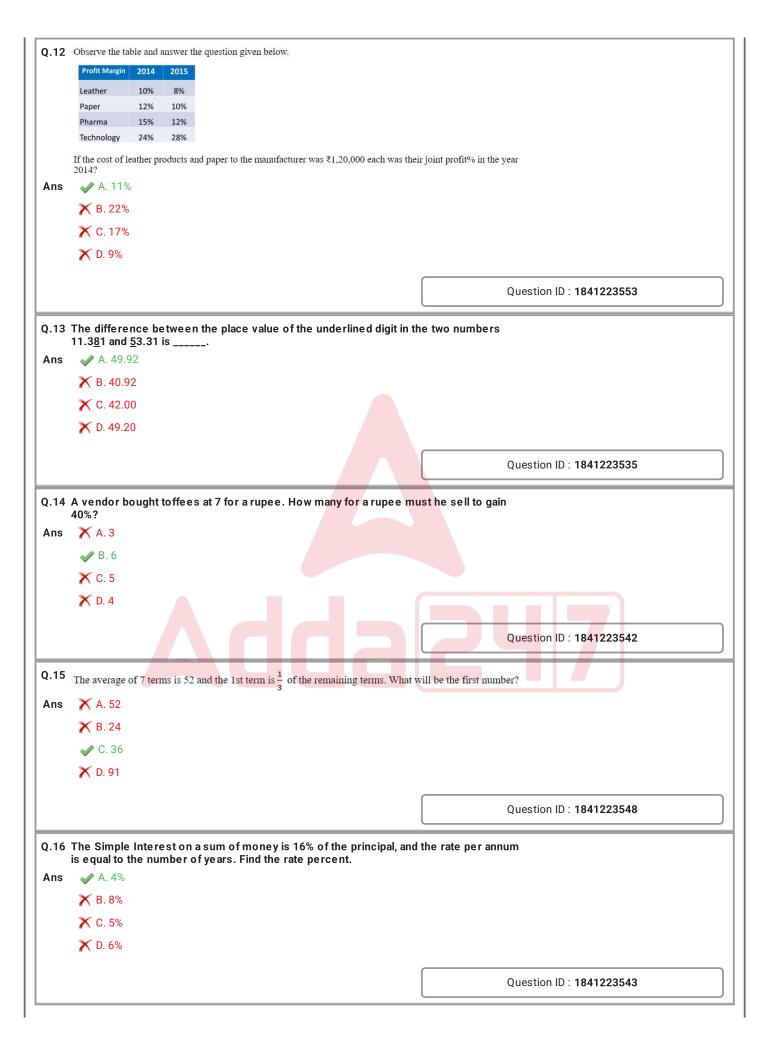


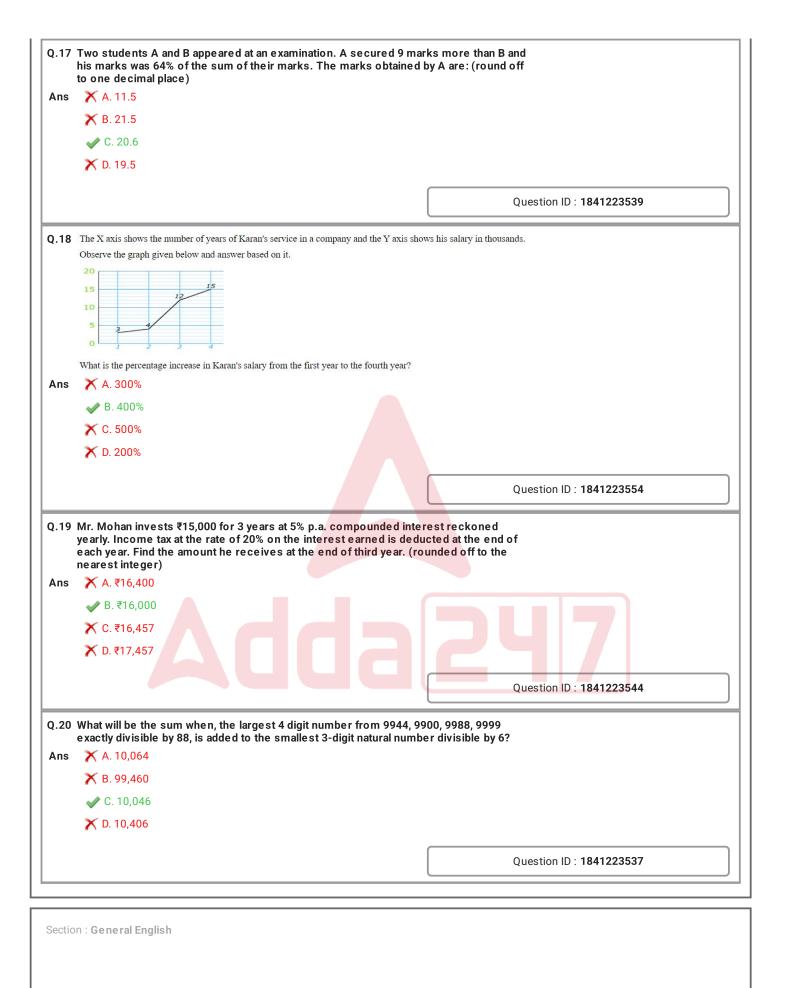
| X B. Fourth C. Third D. Eighth Question ID: 1841223531 Question ID: 1841223531 Question ID: 1841223531 Question ID: 1841223528 Question ID: 1841223529 Question ID: 1841223529 Question ID: 1841223529 Question ID: 1841223529 Question ID: 1841223530 Question ID: 1841223530 | Q.12 Ans | What is India's rank in coal production in the world as of 2020? A. Second | |
|---|-------------|---|---------------------------------|
| Question ID: 1841223531 Question ID: 1841223531 Question ID: 1841223531 Question ID: 1841223531 Question ID: 1841223528 Question ID: 1841223529 Question ID: 1841223526 Question ID: 1841223530 Question ID: 1841223536 Question ID: 1841223526 Question ID: 1841223526 | | | |
| Question ID: 1841223531 2.13 How many Scheduled Private Sector Banks are in India as of January 2022? Ans | | | |
| Question ID : 1841223531 Question ID : 1841223531 Question ID : 1841223531 Question ID : 1841223538 Question ID : 1841223528 Question ID : 1841223529 Question ID : 1841223526 | | | |
| 2.13 How many Scheduled Private Sector Banks are in India as of January 2022? Ans | | D. Lighti | |
| Ans | | | Question ID : 1841223531 |
| X B. 18 X C. 24 ▼ D. 22 Question ID: 1841223528 Question ID: 1841223529 Question ID: 1841223526 Question ID: 1841223526 | Q.13 | How many Scheduled Private Sector Banks are in India as of Jar | nuary 2022? |
| Question ID: 1841223528 Question ID: 1841223529 Question ID: 1841223520 Question ID: 1841223530 Question ID: 1841223530 Question ID: 1841223530 Question ID: 1841223526 | Ans | X A. 20 | |
| Question ID: 1841223528 Question ID: 1841223529 Question ID: 1841223526 Question ID: 1841223526 Question ID: 1841223526 | | ★ B. 18 | |
| Question ID: 1841223528 2.14 How many parallel ranges are in the longitudinal extent of Himalaya? Ans | | X C. 24 | |
| 2.14 How many parallel ranges are in the longitudinal extent of Himalaya? Ans | | ✓ D. 22 | |
| 2.14 How many parallel ranges are in the longitudinal extent of Himalaya? Ans | | | |
| Ans | | | Question ID : 1841223528 |
| | Q.14 | How many parallel ranges are in the longitudinal extent of Himala | aya? |
| Question ID: 1841223529 Question ID: 1841223530 Question ID: 1841223526 Question ID: 1841223526 Question ID: 1841223526 Question ID: 1841223526 | Ans | X A. Five | |
| Question ID: 1841223529 Question ID: 1841223529 Question ID: 1841223529 Question ID: 1841223529 Question ID: 1841223530 Question ID: 1841223526 Question ID: 1841223526 | | ✓ B. Three | |
| Question ID: 1841223529 Question ID: 1841223529 Question ID: 1841223529 Question ID: 1841223529 Question ID: 1841223530 Question ID: 1841223526 Question ID: 1841223526 | | ★ C. Six | |
| Q.15 In how many phases the Indian National Census 2011 has been conducted? Ans | | X D. Four | |
| Q.15 In how many phases the Indian National Census 2011 has been conducted? Ans | | | |
| Ans A. Three B. Four C. One D. Two Question ID: 1841223530 Question ID: 1841223530 Question ID: 1841223526 Question ID: 1841223526 Question ID: 1841223526 | | | Question ID : 1841223529 |
| Ans A. Three B. Four C. One D. Two Question ID: 1841223530 Question ID: 1841223530 Question ID: 1841223526 Question ID: 1841223526 Question ID: 1841223526 | 0.15 | In how many phases the Indian National Census 2011 has been o | conducted? |
| Question ID: 1841223530 | Ans | | |
| Question ID: 1841223530 Question ID: 1841223526 Question ID: 1841223526 | | ★ B. Four | |
| Question ID: 1841223530 Question ID: 1841223526 Question ID: 1841223526 | | X C. One | |
| Q.16 Which of the following Bihu is also known as Rangali Bihu in Assam? Ans | | ✓ D. Two | |
| Q.16 Which of the following Bihu is also known as Rangali Bihu in Assam? Ans | | | |
| Ans | | | Question ID : 1841223530 |
| Ans | O 16 | Which of the following Ribu is also known as Pangali Ribu in Assa | am? |
| | Ans | | airi: |
| C. Magh Bihu D. Kongali Bihu Question ID: 1841223526 Q.17 Which one is an immutable data type in Python? Ans X A. List B. Tuple C. Dictionary D. Set | | | |
| Question ID: 1841223526 Q.17 Which one is an immutable data type in Python? Ans X A. List B. Tuple C. Dictionary D. Set | | | |
| Q.17 Which one is an immutable data type in Python? Ans A. List B. Tuple C. Dictionary D. Set | | | |
| Q.17 Which one is an immutable data type in Python? Ans | | · (- · · · · · · · · · · · · · · · · · | |
| Ans A. List B. Tuple C. Dictionary D. Set | | | Question ID : 1841223526 |
| Ans A. List B. Tuple C. Dictionary D. Set | 0.17 | | |
| ✓ B. Tuple ✓ C. Dictionary ✓ D. Set | | | |
| ★ C. Dictionary★ D. Set | | | |
| X D. Set | | | |
| | | | |
| Question ID : 1841223516 | | 1 2.000 | |
| | | | Question ID : 1841223516 |





| • | ABCD is a square o inscribed in it with i | | | | |
|-------|--|---|------------------|---|--|
| Ans | X A. 600 cm ² | | | | |
| | \times B. 800 cm ² | | | | |
| | \checkmark C. 400 cm ² | | | | |
| | \nearrow D. 500 cm ² | | | | |
| | | | | Ougation ID : 1941232FF0 | |
| | | | | Question ID : 1841223550 | |
| Q.9 | | | | d C was 27 years and that of B and C 5 years | |
| Ans | ago was 20 years. A | A's age five | ye ars late | r is: | |
| ***** | ✓ B. 50 | | | | |
| | ★ C. 40 | | | | |
| | X D. 35 | | | | |
| | , , 2.00 | | | | |
| | | | | Question ID : 1841223549 | |
| . 10 | 128,110 10 10,0101 | 21 112 | | | |
|).10 | Observe the ta | ble and a | answer th | ne question giv <mark>en b</mark> elow. | |
| | Profit Margin | 2014 | 2015 | | |
| | Towns town | 100/ | 00/ | | |
| | Leather | 10% | 8% | | |
| | Paper | 12% | 10% | | |
| | | | | | |
| | Pharma | 15% | 12% | | |
| | Pharma Technology | 15% 24% | 12% 28% | | |
| | Technology | 24% | 28% | ant in magaza an dannasa in the mustice | |
| | Technology What is the year | 24% ar over y | 28% | ent increase or decrease in the profit? | |
| Ans | Technology What is the year A. 3% decrease | 24% ar over y | 28% | ent increase or decrease in the profit? | |
| Ans | Technology What is the year ✓ A. 3% decrease X B. 5% increase | 24% ar over y | 28% | ent increase or decrease in the profit? | |
| Ans | Technology What is the year ✓ A. 3% decrease X B. 5% increase X C. 3% increase | 24% ar over y | 28% | ent increase or decrease in the profit? | |
| Ans | Technology What is the year ✓ A. 3% decrease X B. 5% increase | 24% ar over y | 28% | ent increase or decrease in the profit? | |
| Ans | Technology What is the year ✓ A. 3% decrease X B. 5% increase X C. 3% increase | 24% ar over y | 28% | ent increase or decrease in the profit? Question ID: 1841223552 | |
| Ans | Technology What is the year ✓ A. 3% decrease X B. 5% increase X C. 3% increase | 24% ar over y | 28% | da 247 | |
| | Technology What is the year A. 3% decrease X B. 5% increase X C. 3% increase X D. 6% increase A hemispherical box | 24% ar over y | 28% year perc | Question ID : 1841223552 | |
| | Technology What is the year A. 3% decrease B. 5% increase C. 3% increase D. 6% increase A hemispherical becarred exactly 6 secured ex | 24% ar over y e owl of diam coops of ic am is serve | 28% vear perc | Question ID : 1841223552 | |
|).11 | Technology What is the year A. 3% decrease A. 3% decrease C. 3% increase D. 6% increase A hemispherical becarved exactly 6 second, then ice created A. 13 students | ar over y | 28% vear perc | Question ID: 1841223552 In is full of ice cream. Each student in a class is if the hemispherical scoop is having a radius of | |
| Q.11 | Technology What is the year A. 3% decrease A. 3% decrease B. 5% increase C. 3% increase D. 6% increase A hemispherical because exactly 6 secondary and the content of | 24% ar over y e owl of diam coops of ic am is serve | 28% vear perc | Question ID: 1841223552 In is full of ice cream. Each student in a class is if the hemispherical scoop is having a radius of | |
| Q.11 | Technology What is the year A. 3% decrease A. 3% decrease C. 3% increase C. 3% increase C. 3% increase A hemispherical because dexactly 6 secured exactly 6 | 24% ar over y e owl of diam coops of ic am is serve | 28% vear perc | Question ID: 1841223552 In is full of ice cream. Each student in a class is if the hemispherical scoop is having a radius of | |
| Q.11 | Technology What is the year A. 3% decrease A. 3% decrease B. 5% increase C. 3% increase D. 6% increase A hemispherical because exactly 6 secondary and the company and t | 24% ar over y e owl of diam coops of ic am is serve | 28% vear perc | Question ID: 1841223552 In is full of ice cream. Each student in a class is if the hemispherical scoop is having a radius of | |
| Q.11 | Technology What is the year A. 3% decrease A. 3% decrease C. 3% increase C. 3% increase C. 3% increase A hemispherical because dexactly 6 secured exactly 6 | 24% ar over y e owl of diam coops of ic am is serve | 28% vear perc | Question ID: 1841223552 In is full of ice cream. Each student in a class is if the hemispherical scoop is having a radius of | |





| Q.1 | Select the most appropriate option to fill in the blank. |
|-----|---|
| | The government will soon the scheme of free ration at the door for the people living below poverty line. |
| Ans | X A. perform |
| | ✓ B. implement |
| | X C. practice |
| | X D. fulfill |
| | 0 11 15 14111 |
| | Question ID : 1841223569 |
| Q.2 | Select the most appropriate option to fill in the blank. |
| | I don't know you would like my suggestion. But the is bad and you shouldn't go out at this time of the night. |
| Ans | X A. Weather; weather |
| | X B. Weather; whether |
| | ✓ C. Whether; weather |
| | X D. Whether; whether |
| | Outsetion ID - 1041093561 |
| | Question ID : 1841223561 |
| Q.3 | Select the most appropriate option to fill in the blank. |
| | The tiger growled at the herd of deer. |
| Ans | ✓ A. ferociously |
| | X B. ferociousness |
| | ★ C. ferocious |
| | X D. ferocity |
| | |
| | Question ID : 1841223556 |
| Q.4 | Select the most appropriate option to fill in the blank. |
| Ans | The captain the ship only after everybody was safely in the life boat. A. was leaving |
| | ✓ B. left |
| | X C. leaves |
| | X D. is leaving |
| | |
| | Question ID : 1841223557 |
| Q.5 | Select the most appropriate meaning of the given idiom. |
| | to eat a humble pie |
| Ans | ✓ A. to admit one's fault |
| | X B. to scold someone |
| | X C. to get irritated |
| | X D. to feel very hungry |
| | 0 .: 10 .104.1000550 |
| | Question ID : 1841223563 |

| Q.6 | Complete the following proverb. |
|------------|---|
| | All good things |
| Ans | X A. end fast |
| | X B. will eventually end |
| | C. do not last for ever |
| | ✓ D. must come to an end |
| | Question ID : 1841223562 |
| | Question ib . 1641223362 |
| Q.7 | Select the sentence part which has an error in spelling. If there is no error, select 'No error'. |
| | The Board of Directors discussed the balence sheet of the company. |
| Ans | X A. The Board of Directors |
| | ✓ B. discussed the balence sheet |
| | C. No error |
| | X D. of the company. |
| | Outputier ID : 1041002FCC |
| | Question ID : 1841223566 |
| Q.8 Ans | Select the sentence which is meaningful and grammatically correct. A. Anju takes her dog for a walk every morning. B. For a walk every morning her dog Anju takes. C. Anju takes for a walk every morning her dog. |
| | X D. Every morning for a walk Anju takes her dog. |
| | Question ID : 1841223567 |
| Q.9 | Select the most appropriate option to fill in the blank. Phoolan Devi was a robber of her time. A. famous B. notorious C. reputable D. popular |
| | Question ID: 1841223568 |
| Q.10 | Select the most appropriate option to fill in the blank. |
| Ans | The labourers hard since morning to finish this wall today. A. have been working B. work C. were working |
| | D. worked |
| | FY D. WOINCE |
| | Question ID : 1841223558 |
| | |

| Q.11 | Select the most appropriate synonym of the given word. | |
|------|---|--------------------------|
| | GREGARIUS | |
| Ans | X A. hostile | |
| | X B. introvert | |
| | C. sociable | |
| | X D. reserved | |
| | | |
| | | Question ID : 1841223560 |
| Q.12 | Select the most appropriate idiom to fill in the blank. | |
| Ans | My parent and I do not regarding my love for music. X A. pass the buck | |
| | X B. hit the roof | |
| | ✓ C. see eye to eye | |
| | X D. raise an eyebrow | |
| | | |
| | | Question ID : 1841223564 |
| 0 13 | Select the sentence part which has an error in spelling. If there is | no error select'No |
| 4.10 | error'. | ine error, ecceent ne |
| | The saint told the soljiers that their king was in the garden. | |
| Ans | ✓ A. the soljiers that their king | |
| | X B. The saint told | |
| | X C. No error | |
| | X D. was in the garden | |
| | | |
| | | Question ID : 1841223565 |
| Q.14 | Select the most appropriate option to fill in the blank. | |
| Ans | Please refrain drinking coffee for a week. ➤ A. of B. from | |
| | × C. for | |
| | X D. with | |
| | D. With | |
| | | Question ID : 1841223555 |
| Q.15 | Select the most appropriate synonym of the given word. | |
| | TRANQUIL | |
| Ans | ✓ A. peaceful | |
| | X B. nervous | |
| | X C. stormy | |
| | X D. excited | |
| | , S. Skottod | |
| | | Question ID : 1841223559 |
| | | |

Read the following passage and answer the questions given after it.

Ötzi's discovery ranks as one of the greatest archaeological finds of the 20th century. Ötzi the Iceman is the well-preserved, 5,300-year-old mummy that caused an international sensation when it was dug out of a glacier high in the Italian Alps in 1991. Since that time, the naturally mummified individual - whom the press named Ötzi because he was found in the mountains above the Ötztal Valley - has continued to attract intense public interest and professional scrutiny as the man's mummified remains, the clothes he wore and the implements he carried have been studied over the past few decades. "He is so important because, for the first time, we have the possibility of knowing a Copper Age individual who died in the same situation as he had lived," said Katharina Hersel, a spokesperson for the South Tyrol Museum of Archaeology in Bolzano, Italy, where Ötzi is housed.

Ötzi the Iceman was found by two German hikers who were making their way across the Tisenjoch Pass at an elevation of 10,530 feet (3,210 meters) above the Ötztal Valley in western Austria in September 1991. The hikers were skirting a glacier on the border of Austria and Italy when they noticed the upper part of a human body protruding from the ice. That summer had been particularly warm, Hersel said, and the high temperatures aided in exposing Ötzi's remains. The German hikers alerted the Austrian authorities, who, at first, thought the body was the victim of an unfortunate mountaineering accident. This assumption prompted a hasty attempt to extract the body from the ice the following day. The rescuers, none of them trained archaeologists, tried to dig Ötzi out of the ice using axes and jackhammers. In the process, parts of the mummy -including the left hip and thigh and a few of his tools, including his bow - were damaged. Bad weather scuttled this first attempt to free the body from the ice, so the authorities tried again the next day. The rescue attempt took longer than anticipated, but five days after Ötzi's discovery, the mummy was freed from the ice and fully exposed.

A helicopter carried the mummy off the mountain, and the iceman was transported to the Institute of Forensic Medicine at Innsbruck Medical University in Austria. There, Konrad Spindler, an archaeologist at the University of Innsbruck, examined the remains and announced that the mummy was not a mountaineer but was "at least 4,000 years old," Scientific American reported.

SubQuestion No: 16

Q.16 The central theme of the passage is:

Ans X A. mummification of Otzi, the Iceman

X B. importance of Otzi, the Iceman

C. discovery of Otzi, the Iceman

X D. preservation of Otzi, the Iceman

Read the following passage and answer the questions given after it.

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SubQuestion No: 17

- Q.17 The finding of Otzi is archeologically important because:
 - a. The body is well preserved.
 - b. It is a naturally mummified individual.
 - c. It is 5,300 years old.
 - d. It was found at an elevation of 10,530 feet.

Which of the above reasons are correct?

Ans

🛹 A. a, b and c

X B. a, b and d

X C. a, c and d

X D. b, c and d

Read the following passage and answer the questions given after it.

Ötzi's discovery ranks as one of the greatest archaeological finds of the 20th century. Ötzi the Iceman is the well-preserved, 5,300-year-old mummy that caused an international sensation when it was dug out of a glacier high in the Italian Alps in 1991. Since that time, the naturally mummified individual - whom the press named Ötzi because he was found in the mountains above the Ötztal Valley - has continued to attract intense public interest and professional scrutiny as the man's mummified remains, the clothes he wore and the implements he carried have been studied over the past few decades. "He is so important because, for the first time, we have the possibility of knowing a Copper Age individual who died in the same situation as he had lived," said Katharina Hersel, a spokesperson for the South Tyrol Museum of Archaeology in Bolzano, Italy, where Ötzi is housed.

Ötzi the Iceman was found by two German hikers who were making their way across the Tisenjoch Pass at an elevation of 10,530 feet (3,210 meters) above the Ötztal Valley in western Austria in September 1991. The hikers were skirting a glacier on the border of Austria and Italy when they noticed the upper part of a human body protruding from the ice. That summer had been particularly warm, Hersel said, and the high temperatures aided in exposing Ötzi's remains. The German hikers alerted the Austrian authorities, who, at first, thought the body was the victim of an unfortunate mountaineering accident. This assumption prompted a hasty attempt to extract the body from the ice the following day. The rescuers, none of them trained archaeologists, tried to dig Ötzi out of the ice using axes and jackhammers. In the process, parts of the mummy -including the left hip and thigh and a few of his tools, including his bow - were damaged. Bad weather scuttled this first attempt to free the body from the ice, so the authorities tried again the next day. The rescue attempt took longer than anticipated, but five days after Ötzi's discovery, the mummy was freed from the ice and fully exposed.

A helicopter carried the mummy off the mountain, and the iceman was transported to the Institute of Forensic Medicine at Innsbruck Medical University in Austria. There, Konrad Spindler, an archaeologist at the University of Innsbruck, examined the remains and announced that the mummy was not a mountaineer but was "at least 4,000 years old," Scientific American reported.

SubQuestion No: 18

Q.18 The body of Otzi and his tools were damaged mainly because:

X A, the bad weather caused delay in extracting the body

X B. he had been a victim of an accident

C. the untrained rescuers used jackhammers and axes

X D. the hikers tried to extract him out of the ice

Read the following passage and answer the questions given after it.

Ötzi's discovery ranks as one of the greatest archaeological finds of the 20th century. Ötzi the Iceman is the well-preserved, 5,300-year-old mummy that caused an international sensation when it was dug out of a glacier high in the Italian Alps in 1991. Since that time, the naturally mummified individual - whom the press named Ötzi because he was found in the mountains above the Ötztal Valley - has continued to attract intense public interest and professional scrutiny as the man's mummified remains, the clothes he wore and the implements he carried have been studied over the past few decades. "He is so important because, for the first time, we have the possibility of knowing a Copper Age individual who died in the same situation as he had lived," said Katharina Hersel, a spokesperson for the South Tyrol Museum of Archaeology in Bolzano, Italy, where Ötzi is housed.

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SubQuestion No: 19

Q.19 Which of the following statements is NOT true according to the passage?

Ans A. Otzi's mummified remains, the clothes he wore and the implements he carried have been studied by archaeologists.

X B. Otzi is important because the archeologists have a chance to study an individual who died in the same situation as he had lived.

X C. Otzi was found buried in a glacier on the Italian Alps.

D. Otzi, the Iceman belonged to the bronze age.

Read the following passage and answer the questions given after it.

Ötzi's discovery ranks as one of the greatest archaeological finds of the 20th century. Ötzi the Iceman is the well-preserved, 5,300-year-old mummy that caused an international sensation when it was dug out of a glacier high in the Italian Alps in 1991. Since that time, the naturally mummified individual - whom the press named Ötzi because he was found in the mountains above the Ötztal Valley - has continued to attract intense public interest and professional scrutiny as the man's mummified remains, the clothes he wore and the implements he carried have been studied over the past few decades. "He is so important because, for the first time, we have the possibility of knowing a Copper Age individual who died in the same situation as he had lived," said Katharina Hersel, a spokesperson for the South Tyrol Museum of Archaeology in Bolzano, Italy, where Ötzi is housed.

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SubQuestion No: 20

Q.20 The hikers who found Otzi were:

Ans

X A. Austrians

X B. Americans

C. Germans

X D. Italians

Question ID: 1841223573

Section: General Hindi

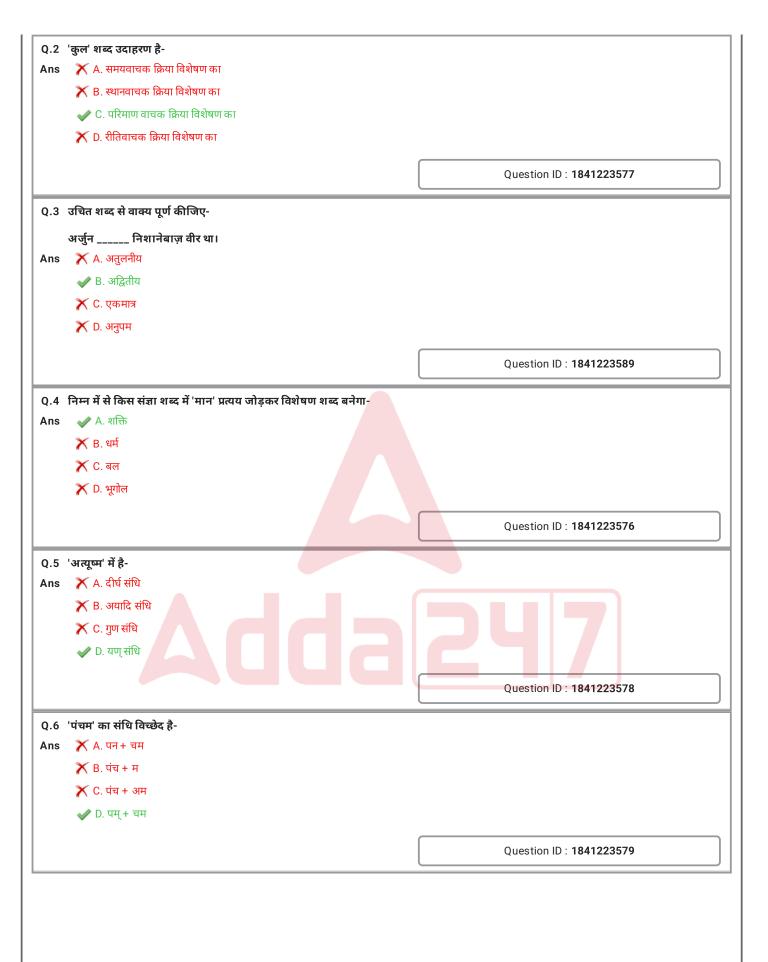
Q.1 निम्न वाक्यों में से संयुक्त वाक्य है-

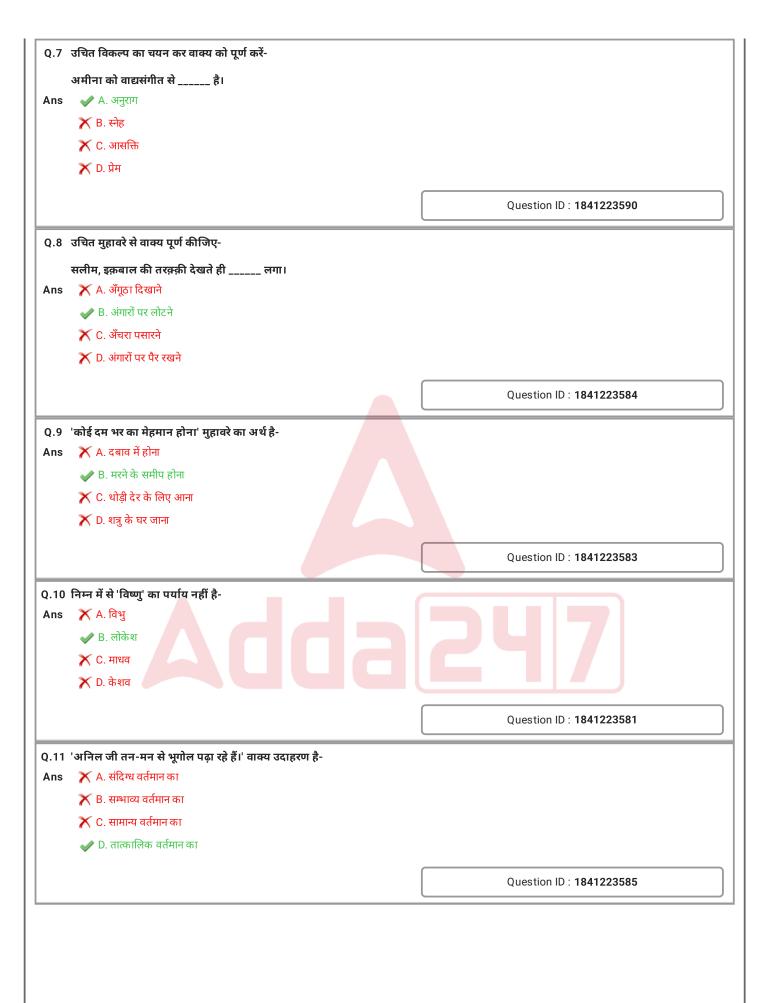
Ans 🔀 A. रात के बारह बजे मैंने पढ़ना बंद कर दिया।

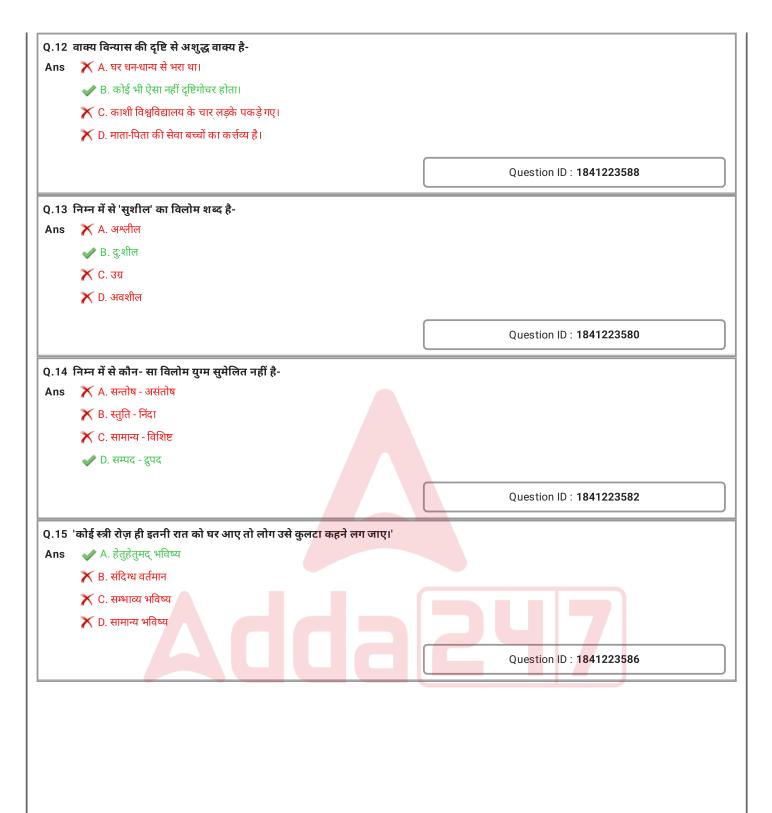
🥒 B. अकाल पड़ेगा और लोग मरेंगे।

🗙 C. मुझे अप्रिय सत्य बोलना उचित नहीं।

🗙 D. मैंने एक व्यक्ति को देखा जो बहुत दुबला-पतला था।







दिए गए गद्यांश के आधार पर प्रश्न के उत्तर दीजिए-

राजा शशांक की मृत्यु के बाद बंगाल में लगभग एक शताब्दी तक बड़ी अराजकतापूर्ण स्थित व्याप्त रही। शक्तिशाली केंद्रीय सत्ता के अभाव में अराजकतापूर्ण स्थिति से तंग आकर लोगों ने आठवीं शताब्दी के मध्य में गोपाल नामक किसी व्यक्ति को अपना शासक चुना, जो बंगाल के प्रसिद्ध पाल वंश का संस्थापक बना। उत्तर भारत में इस समय जहाँ शिक्तशाली राजवंशों का नितांत अभाव था वहीं इसके विपरीत दक्षिण भारत में प्रतापी राजवंशों का उदय इसी युग से प्रारंभ हुआ। 733 ई. में दांतिदुर्ग ने राष्ट्रकूट साम्राज्य का स्थापना की। आठवीं शताब्दी के प्रारंभ में कन्नौज पर नितांत शक्तिहीन आयुध शासकों का शासन था। इसके विपरीत पाल, प्रतिहार और राष्ट्रकूट उनकी शक्तिहीनता का लाभ उठाकर कन्नौज पर अपना आधिपत्य अथापित करना चाहते थे। कन्नौज पर आधिपत्य के लिए इन तीनों महाशक्तियों के मध्य संघर्ष को 'त्रिपक्षीय संघर्ष' कहा जाता है। यह संघर्ष बड़ी विचित्र एवं रोचक स्थितियों में लगभग एक शताब्दी तक चलता रहा और अंतत: गुर्जर-प्रतिहार कन्नौज पर आधिपत्य स्थापित करने में सफल हुए। इस त्रिपक्षीय संघर्ष का कारण कन्नौज नगर पर अधिकार करने की आकांक्षा मात्र नहीं था। कन्नौज वास्तव में इन तीनों महाशक्तियों की महत्त्वाकांक्षाओं का क्रीड़ा -स्थल था। कन्नौज कूटनीतिक और सामरिक दृष्टि से अब वहीं महत्त्व रखता था को मगध साम्राज्य में पाटलिपुत्र का था। कन्नौज अब उत्तर भारत की राजनीतिक धुरी का प्रतीक था। अत: समकालीन राजनीतिक महा शक्तियों द्वारा कन्नौज पर प्रभुत्व स्थापित करने की लालसा बड़ी स्वाभाविक थी।

SubQuestion No:16

Q.16 आठवीं शताब्दी के कन्नौज के विषय में सत्य नहीं है-

Ans X A. कन्नौज लगभग एक शताब्दी तक त्रिपक्षीय संघर्ष का कारण बना रहा।

🗙 B. आठवीं शताब्दी में कन्नौज भारत की राजनीतिक धुरी का प्रतीक था।

X C. वह तीन महाशक्तियों की महत्त्वाकांक्षा का क्रीडा-स्थल बन गया था।

🥓 D. इस युग में कन्नौज का वही महत्त्व था जो मगध साम्राज्य में प्रयाग का था।

Question ID: 1841223596

Comprehension:

दिए गए गद्यांश के आधार पर प्रश्न के उत्तर दीजिए-

राजा शशांक की मृत्यु के बाद बंगाल में लगभग एक शताब्दी तक बड़ी अराजकतापूर्ण स्थित व्याप्त रही। शक्तिशाली केंद्रीय सत्ता के अभाव में अराजकतापूर्ण स्थिति से तंग आकर लोगों ने आठवीं शताब्दी के मध्य में गोपाल नामक किसी व्यक्ति को अपना शासक चुना, जो बंगाल के प्रसिद्ध पाल वंश का संस्थापक बना। उत्तर भारत में इस समय जहाँ शिक्तिशाली राजवंशों का नितांत अभाव था वहीं इसके विपरीत दक्षिण भारत में प्रतापी राजवंशों का उदय इसी युग से प्रारंभ हुआ। 733 ई. में दांतिदुर्ग ने राष्ट्रकूट साम्राज्य का स्थापना की। आठवीं शताब्दी के प्रारंभ में कन्नौज पर नितांत शिक्तिहीन आयुध शासकों का शासन था। इसके विपरीत पाल, प्रतिहार और राष्ट्रकूट उनकी शिक्तिहीनता का लाभ उठाकर कन्नौज पर अपना आधिपत्य अथापित करना चाहते थे। कन्नौज पर अधिपत्य के लिए इन तीनों महाशक्तियों के मध्य संघर्ष को 'त्रिपक्षीय संघर्ष' कहा जाता है। यह संघर्ष बड़ी विचित्र एवं रोचक स्थितियों में लगभग एक शताब्दी तक चलता रहा और अंतत: गुर्जर-प्रतिहार कन्नौज पर आधिपत्य स्थापित करने में सफल हुए। इस त्रिपक्षीय संघर्ष का कारण कन्नौज नगर पर अधिकार करने की आकांक्षा मात्र नहीं था। कन्नौज वास्तव में इन तीनों महाशक्तियों की महत्त्वाकांक्षाओं का क्रीड़ा स्थल था। कन्नौज कूटनीतिक और सामरिक दृष्टि से अब वहीं महत्त्व रखता था को मगध साम्राज्य में पाटलिपुत्र का था। कन्नौज अब उत्तर भारत की राजनीतिक धुरी का प्रतीक था। अत: समकालीन राजनीतिक महा शक्तियों द्वारा कन्नौज पर प्रभुत्व स्थापित करने की लालसा बड़ी स्वाभाविक थी।

 ${\bf SubQuestion\ No:} 17$

Q.17 'सामरिक' का अर्थ है-

Ans 🔀 A. संस्कृति से संबंधित

\chi B. अर्थ से संबंधित

🚀 C. युद्ध से संबंधित

\chi D. समाज से संबंधित

दिए गए गद्यांश के आधार पर प्रश्न के उत्तर दीजिए-

राजा शशांक की मृत्यु के बाद बंगाल में लगभग एक शताब्दी तक बड़ी अराजकतापूर्ण स्थित व्याप्त रही। शक्तिशाली केंद्रीय सत्ता के अभाव में अराजकतापूर्ण स्थिति से तंग आकर लोगों ने आठवीं शताब्दी के मध्य में गोपाल नामक किसी व्यक्ति को अपना शासक चुना, जो बंगाल के प्रसिद्ध पाल वंश का संस्थापक बना। उत्तर भारत में इस समय जहाँ शिक्तशाली राजवंशों का नितांत अभाव था वहीं इसके विपरीत दक्षिण भारत में प्रतापी राजवंशों का उदय इसी युग से प्रारंभ हुआ। 733 ई. में दांतिदुर्ग ने राष्ट्रकूट साम्राज्य का स्थापना की। आठवीं शताब्दी के प्रारंभ में कन्नौज पर नितांत शक्तिहीन आयुध शासकों का शासन था। इसके विपरीत पाल, प्रतिहार और राष्ट्रकूट उनकी शक्तिहीनता का लाभ उठाकर कन्नौज पर अपना आधिपत्य अथापित करना चाहते थे। कन्नौज पर आधिपत्य के लिए इन तीनों महाशक्तियों के मध्य संघर्ष को 'त्रिपक्षीय संघर्ष' कहा जाता है। यह संघर्ष बड़ी विचित्र एवं रोचक स्थितियों में लगभग एक शताब्दी तक चलता रहा और अंतत: गुर्जर-प्रतिहार कन्नौज पर आधिपत्य स्थापित करने में सफल हुए। इस त्रिपक्षीय संघर्ष का कारण कन्नौज नगर पर अधिकार करने की आकांक्षा मात्र नहीं था। कन्नौज वास्तव में इन तीनों महाशक्तियों की महत्त्वाकांक्षाओं का क्रीड़ा -स्थल था। कन्नौज कूटनीतिक और सामिरेक दृष्टि से अब वहीं महत्त्व रखता था को मगध साम्राज्य में पाटलिपुत्र का था। कन्नौज अब उत्तर भारत की राजनीतिक धुरी का प्रतीक था। अत: समकालीन राजनीतिक महा शक्तियों द्वारा कन्नौज पर प्रभुत्व स्थापित करने की लालसा बड़ी स्वाभाविक थी।

SubQuestion No:18

Q.18 आठवीं शताब्दी के आरम्भ में कन्नौज के शासक थे-

Ans



🗙 B. पाल

🗙 C. प्रतिहार

🟋 D. राष्ट्रकूट

Question ID: 1841223593

Comprehension:

दिए गए गद्यांश के आधार पर प्रश्न के उत्तर दीजिए-

राजा शशांक की मृत्यु के बाद बंगाल में लगभग एक शताब्दी तक ब<mark>ड़ी अराजकतापूर्ण</mark> स्थित व्याप्त रही। शक्तिशाली केंद्रीय सत्ता के अभाव में अराजकतापूर्ण स्थिति से तंग आकर लोगों ने आठवीं शताब्दी के मध्य में गोपाल नामक किसी व्यक्ति को अपना शासक चुना, जो बंगाल के प्रसिद्ध पाल वंश का संस्थापक बना। उत्तर भारत में इस समय जहाँ शिक्तिशाली राजवंशों का नितांत अभाव था वहीं इसके विपरीत दक्षिण भारत में प्रतापी राजवंशों का उदय इसी युग से प्रारंभ हुआ। 733 ई. में दांतिदुर्ग ने राष्ट्रकूट साम्राज्य का स्थापना की। आठवीं शताब्दी के प्रारंभ में कन्नौज पर नितांत शक्तिहीन आयुध शासकों का शासन था। इसके विपरीत पाल, प्रतिहार और राष्ट्रकूट उनकी शक्तिहीनता का लाभ उठाकर कन्नौज पर अपना आधिपत्य अथापित करना चाहते थे। कन्नौज पर अधिपत्य के लिए इन तीनों महाशक्तियों के मध्य संघर्ष को 'त्रिपक्षीय संघर्ष' कहा जाता है। यह संघर्ष बड़ी विचित्र एवं रोचक स्थितियों में लगभग एक शताब्दी तक चलता रहा और अंतत: गुर्जर-प्रतिहार कन्नौज पर आधिपत्य स्थापित करने में सफल हुए। इस त्रिपक्षीय संघर्ष का कारण कन्नौज नगर पर अधिकार करने की आकांक्षा मात्र नहीं था। कन्नौज वास्तव में इन तीनों महाशक्तियों की महत्त्वाकांक्षाओं का क्रीड़ा स्थल था। कन्नौज कूटनीतिक और सामरिक दृष्टि से अब वहीं महत्त्व रखता था को मगध साम्राज्य में पाटलिपुत्र का था। कन्नौज अब उत्तर भारत की राजनीतिक धुरी का प्रतीक था। अत: समकालीन राजनीतिक महा शक्तियों द्वारा कन्नौज पर प्रभुत्व स्थापित करने की लालसा बड़ी स्वाभाविक थी।

SubQuestion No:19

Q.19 त्रिपक्षीय संघर्ष के विषय में असत्य है-

Ans 🔀 A. यह संघर्ष कन्नौज पर आधिपत्य को लेकर हुआ।

X B. यह त्रिपक्षीय संघर्ष लगभग एक शताब्दी तक चलता रहा।

✓ C. पाल, प्रतिहार और चालुक्य वंशों के मध्य यह संघर्ष हुआ।

💢 D. प्रतिहारों द्वारा कन्नौज पर विजय प्राप्त करने से यह संघर्ष समाप्त हुआ।

दिए गए गद्यांश के आधार पर प्रश्न के उत्तर दीजिए-

राजा शशांक की मृत्यु के बाद बंगाल में लगभग एक शताब्दी तक बड़ी अराजकतापूर्ण स्थिति व्याप्त रही। शक्तिशाली केंद्रीय सत्ता के अभाव में अराजकतापूर्ण स्थिति से तंग आकर लोगों ने आठवीं शताब्दी के मध्य में गोपाल नामक किसी व्यक्ति को अपना शासक चुना, जो बंगाल के प्रसिद्ध पाल वंश का संस्थापक बना। उत्तर भारत में इस समय जहाँ शिक्तशाली राजवंशों का नितांत अभाव था वहीं इसके विपरीत दक्षिण भारत में प्रतापी राजवंशों का उदय इसी युग से प्रारंभ हुआ। 733 ई. में दांतिदुर्ग ने राष्ट्रकूट साम्राज्य का स्थापना की। आठवीं शताब्दी के प्रारंभ में कन्नौज पर नितांत शक्तिहीन आयुध शासकों का शासन था। इसके विपरीत पाल, प्रतिहार और राष्ट्रकूट उनकी शक्तिहीनता का लाभ उठाकर कन्नौज पर अपना आधिपत्य अथापित करना चाहते थे। कन्नौज पर आधिपत्य के लिए इन तीनों महाशक्तियों के मध्य संघर्ष को 'त्रिपक्षीय संघर्ष' कहा जाता है। यह संघर्ष बड़ी विचित्र एवं रोचक स्थितियों में लगभग एक शताब्दी तक चलता रहा और अंतत: गुर्जर-प्रतिहार कन्नौज पर आधिपत्य स्थापित करने में सफल हुए। इस त्रिपक्षीय संघर्ष का कारण कन्नौज नगर पर अधिकार करने की आकांक्षा मात्र नहीं था। कन्नौज वास्तव में इन तीनों महाशक्तियों की महत्त्वाकांक्षाओं का क्रीड़ा स्थल था। कन्नौज कूटनीतिक और सामरिक दृष्टि से अब वहीं महत्त्व रखता था को मगध साम्राज्य में पाटलिपुत्र का था। कन्नौज अब उत्तर भारत की राजनीतिक धुरी का प्रतीक था। अत: समकालीन राजनीतिक महा शक्तियों द्वारा कन्नौज पर प्रभुत्व स्थापित करने की लालसा बड़ी स्वाभाविक थी।

SubQuestion No: 20

Q.20 निम्न में से जनता द्वारा चुना हुआ शासक था-

Ans



🟋 B. हर्ष

🗙 C. दांतिदुर्ग

🟋 D. शशांक

Question ID: 1841223594

Section: Discipline 1

Q.1 Calcuate the angle between the lines, $m - \sqrt{3}n - 5 = 0$ and $\sqrt{3}m - n + 6 = 0$.

Ans

✓ A. 30

X B. 60

X C. 50

X D. 45

Question ID : 1841223603

Q.2 Consider the below statements with respect to "Resistance of common types of Earth electrodes" and Identify the correct answer.

Statement A: A plate has a much lower resistance than a pipe, rod or strip of equal surface area.

Statement B: For higher current density requirements plate earthing may be preferred over pipe/rod earthing.

Ans

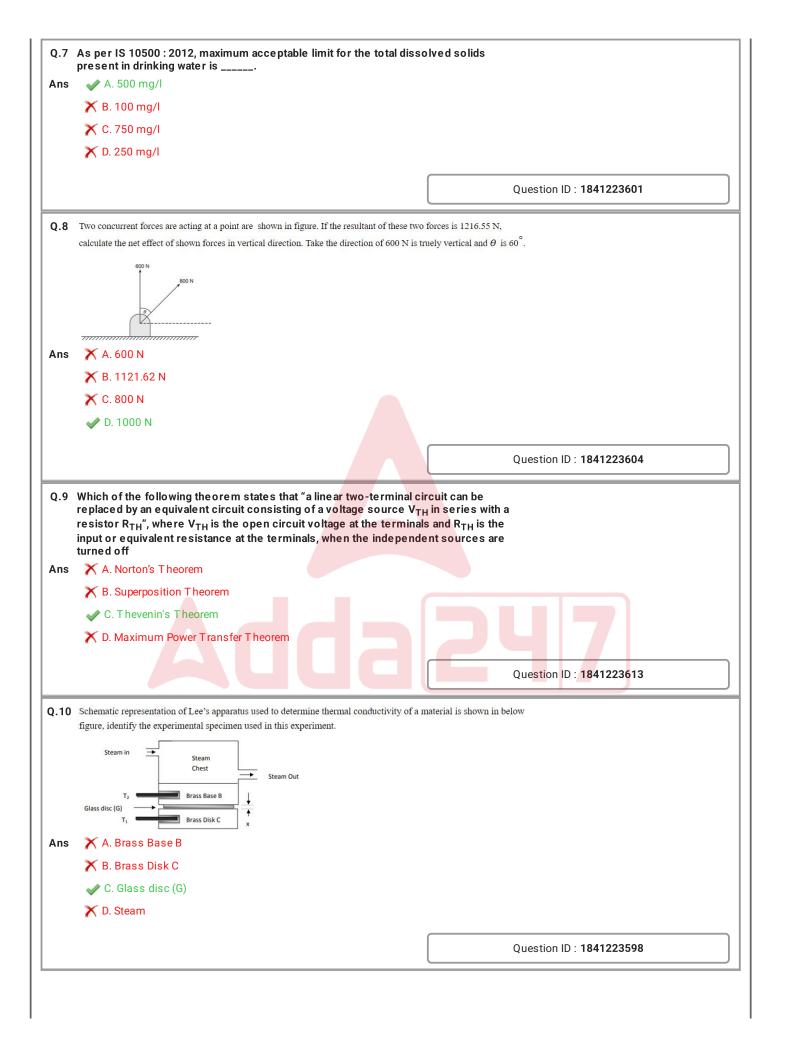
X A. Statement A is correct and B is incorrect

X B. Both satements are correct

C. Both statements are incorrect

✓ D. Statement B is correct and A is incorrect

| Q.3 | Two solutions of a substance (non electrolyte) with a different value are mixed, volume of first solution is 300 mL with 1.2 M and volume solution is 500 mL, Calculate the molarity of second solution if the mixture is 1.5? | ofsecond |
|-----|--|---|
| Ans | ★ A. 0.79 M | |
| | ★ B. 1.95 M | |
| | ✓ C. 1.68 M | |
| | ★ D. 2.42 M | |
| | | Question ID : 1841223599 |
| Q.4 | Solubility of atmospheric oxygen in fresh water ranges from | |
| Ans | at 35° C under 1 atmosperic pressure-measured in DO meter X A. 3 mg/l, 6.5 mg/l | |
| , | ➤ B. 1 mg/l, 5 mg/l | |
| | ✓ C. 14.6 mg/l, 7 mg/l | |
| | ➤ D. 25 mg/l, 15.5 mg/l | |
| | A B. 20 mg/l, 10.0 mg/l | |
| | | Question ID : 1841223600 |
| | | |
| Ans | Statement B: Power doesnot depend on time. ✓ A. Statement A is correct and B is incorrect ✓ B. Both satements are correct ✓ C. Both statements are incorrect ✓ D. Statement B is correct and A is incorrect | |
| | | Question ID : 1841223610 |
| Q.6 | Consider the below statements with respect to analysis of coplanar force system and Identify the correct answer. Statement A: If the resultant force of a force system is directed upw vertical, then the net effect of force system in horizontal direction is Statement B: If the resultant force of a force system is truly vertical, effect of force system in vertical direction is equal to magnitude of resultant force. | ards and truly sequal to zero. then the net |
| Ans | X A. Both statements are incorrect | |
| | ✓ B. Both satements are correct | |
| | ✗ C. Statement A is correct and B is incorrect | |
| | X D. Statement B is correct and A is incorrect | |
| | | Question ID : 1841223605 |
| | | |



Q.11 Consider the below statements with respect to "Power transmission devices used to transmit power from one shaft to another" and Identify the correct answer.

Statement A: Belt drives are used where exact velocity ratio is not required. Statement B: The chain drive is considered as positive drive as no slip is observed during power transmission.

Ans X A. Both statements are incorrect

X B. Statement B is correct and A is incorrect

C. Both satements are correct

D. Statement A is correct and B is incorrect

Question ID: 1841223615

Q.12 Consider the below statements with respect to dry corrosion of metals and identify correct answer.

Statement A: Dry corrosion occurs usually in the presence of gases and vapours Statement B: Dry corrosion occurs mainly at high temperatures in the absence of moisture.

Ans X A. Both statements are incorrect

B. Both satements are correct

X C. Statement B is correct and A is incorrect

X D. Statement A is correct and B is incorrect

Question ID: 1841223602

Q.13 Consider the below statements with respect to 'Ohm law applicable for conductors' and Identify the correct answer.

Statement A: It does not hold true for nonlinear devises such as semiconductors and zener diodes.

Statement B: It is not applicable to non metallic conductors, such a silicon carbide.

Ans A. Both satements are correct

X B. Statement A is correct and B is incorrect

X C. Statement B is correct and A is incorrect

X D. Both statements are incorrect

Question ID: 1841223612

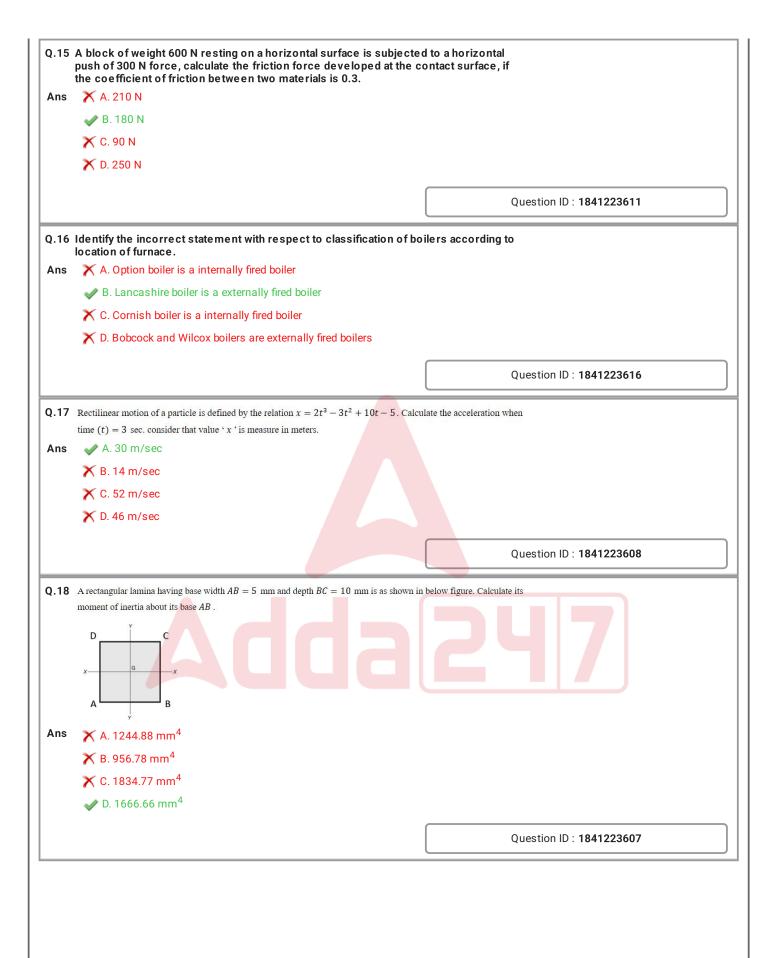
Q.14 Coulomb's law states that:

Ans A. the force of attraction or repulsion acting along a straight line between two electric charges is directly proportional to the sum of the charges and inversely to the distance between them.

✓ B. the force of attraction or repulsion acting along a straight line between two electric charges is directly proportional to the product of the charges and inversely to the square of the distance between them.

C. the force of attraction or repulsion acting along a straight line between two electric charges is directly proportional to the square of the product of charges and inversely to the distance between them.

X D. the force of attraction or repulsion acting along a straight line between two electric charges is inversely proportional to the product of the charges and directly to the square of the distance between them.



Q.19 Which of the following is the correct expression for the calculation of centrifugal force (F) experienced by an object during its curvilinear motion. Where, w = Weight of revolving object, v = velocity at radius 'r' on body, g = acceleration due to gravity, r = perpendicular distance from axis of rotation to centre

of gravity of revolving object.

Ans

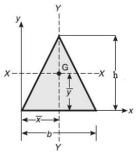
$$\mathbf{X}$$
 A. $F = \frac{v^2}{gr}$

$$\mathbf{X}$$
 B. $F = \frac{wv}{gr^2}$

$$\mathbf{X}$$
 D. $F = \frac{wv^2}{gr^2}$

Question ID: 1841223609

 ${f Q.20}$ A triangular lamina with base width $b=30\,$ mm and height $h=50\,$ mm is as shown in below figure. The location of centroid measured with respect to its apex is at a distance of _____mm.



Ans

- X A. 41.32 mm
- X B. 25.00 mm
- X C. 16.66 mm
- D. 33.33 mm

Question ID: 1841223606

Section: Discipline 2

Q.1 Arbitrary value given by Slitcher for Radius of influence for Unconfined aquifer is:

Ans

X A. 75 m

X B. 600 m

C. 150 m

X D. 300 m

| Pa Pa following is not the product of hydration of calcium Aluminoferrite um Decahydrate cium Silicate um Hydroxide oncrete sample 0.45 water cement ratio wa | Question ID : 1841223629 Fordinary Portland cement? Question ID : 1841223635 |
|---|---|
| following is not the product of hydration of calcium Aluminoferrite um Decahydrate cium Silicate um Hydroxide | ordinary Portland cement? |
| following is not the product of hydration of calcium Aluminoferrite um Decahydrate cium Silicate um Hydroxide | ordinary Portland cement? |
| following is not the product of hydration of calcium Aluminoferrite um Decahydrate cium Silicate um Hydroxide | ordinary Portland cement? |
| calcium Aluminoferrite um Decahydrate cium Silicate um Hydroxide | ordinary Portland cement? |
| calcium Aluminoferrite um Decahydrate cium Silicate um Hydroxide | ordinary Portland cement? |
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| anarata cample 0.45 water coment ratio w | |
| r cement ratio is increased and other varib e of concrete? | |
| | |
| | |
| | urdened and freeh concrete |
| ge of water certain ratio accorde affect the ha | induction and incomposition |
| | Question ID : 1841223636 |
| following data item is not broken down into | smaller units is? |
| data | |
| | |
| | |
| entry | |
| | Question ID : 1841223633 |
| | |
| g g | ability of concrete decreases gth of concrete increases ge of water cement ratio doesnot affect the ha e following data item is not broken down into data mentary data item base management entry |

| Q.7 | "Dormitories" belongs to which subgroup, Under Classification by National Building code of india. | ı of Group A buildings |
|------------|---|----------------------------|
| ns | X A. Sub-group A-4 | |
| | ✓ B. Sub-group A-3 | |
| | ★ C. Sub-group A-5 | |
| | ➤ D. Sub-group A-1 | |
| | | |
| | | Question ID : 1841223618 |
| Q.8 | In what type of scaffolding the working platform is supported o contrivances like ladders, tripods mounted on wheels? | n movable |
| Ans | X A. Patented Scaffolding | |
| | ✗ B. Needle Scaffolding | |
| | ✓ C. Trestle Scaffolding | |
| | X D. Suspended Scaffolding | |
| | | |
| | | Question ID : 1841223622 |
| Q.9 Ans | ✓ A. Irrotational Flow | he flow is called as: |
| | X B. Turbulent Flow | |
| | ★ C. Translational Flow | |
| | ➤ D. Laminar Flow | |
| | | Ourstins ID - 10 41000000 |
| | | Question ID : 1841223630 |
| Q.10 | When a fluid is at rest, rate of increase of pressure in a vertica | l direction is equal to |
| A | the weight density at that point is called as: | |
| Ans | X A. Hydro Dynamic Law X B. Pressure Dynamic Law | |
| | | |
| | ✓ C. Hydro Static LawX D. Pressure Static Law | |
| | D. Plessure Static Law | |
| | | Question ID : 1841223628 |
| | | |
| Q.11 | Calculate the Specific Weight of a liquid in $\mbox{N/m}^3,$ if the weight o volume of 0.5 litre. | f said liquid in 8 N for a |
| Ans | ✓ A. 4000 | |
| | ★ B. 8000 | |
| | ★ C. 2000 | |
| | X D. 16000 | |
| | | |
| | | Question ID : 1841223627 |

| Q.12 | The inner curve of an arched masonry is called as | |
|-------------|--|--------------------------|
| Ans | X A. Arcade | |
| | X B. Base line | |
| | X C. Voussiors | |
| | ✓ D. Intrados | |
| | | Question ID : 1841223621 |
| Q.13 | What operation the ALU of computer performs? | |
| Ans | ✓ A. Arithmetic | |
| | X B. Logarithmic | |
| | ★ C. Geometric | |
| | X D. Biometric | |
| | | |
| | | Question ID : 1841223632 |
| Q.14 | The type of closer used in masonry work obtained by cutting a tria brick such that half a header and half a stretcher are obtained on the faces is: | |
| Ans | X A. Mitred closer | |
| | ➤ B. Bevelled closer | |
| | ✓ C. King closer | |
| | X D. Queen closer | |
| | | |
| | | Question ID : 1841223619 |
| Q.15 Ans | One stroke in Internal Combustion (IC) engines is equal to A. 0.5 times the crank radius | |
| | X B. 1 times the crank radius | |
| | ✓ C. 2 times the crank radius | |
| | X D. 4 times the crank radius | |
| | | |
| | | Question ID : 1841223617 |
| Q.16 | The Gross command area of an Irrigation canal is 60000 hectares Cultivatable Command area. The canal Intensity of Irrigation for Ra and for Kharif season of 30%. Then the Crop Ratio will be: | |
| Ans | X A. 2.667 | |
| | ★ B. 1.333 | |
| | ★ C. 1.986 | |
| | ✓ D. 0.500 | |
| | | 0 11 10 11 11 11 |
| | | Question ID : 1841223625 |
| | | |

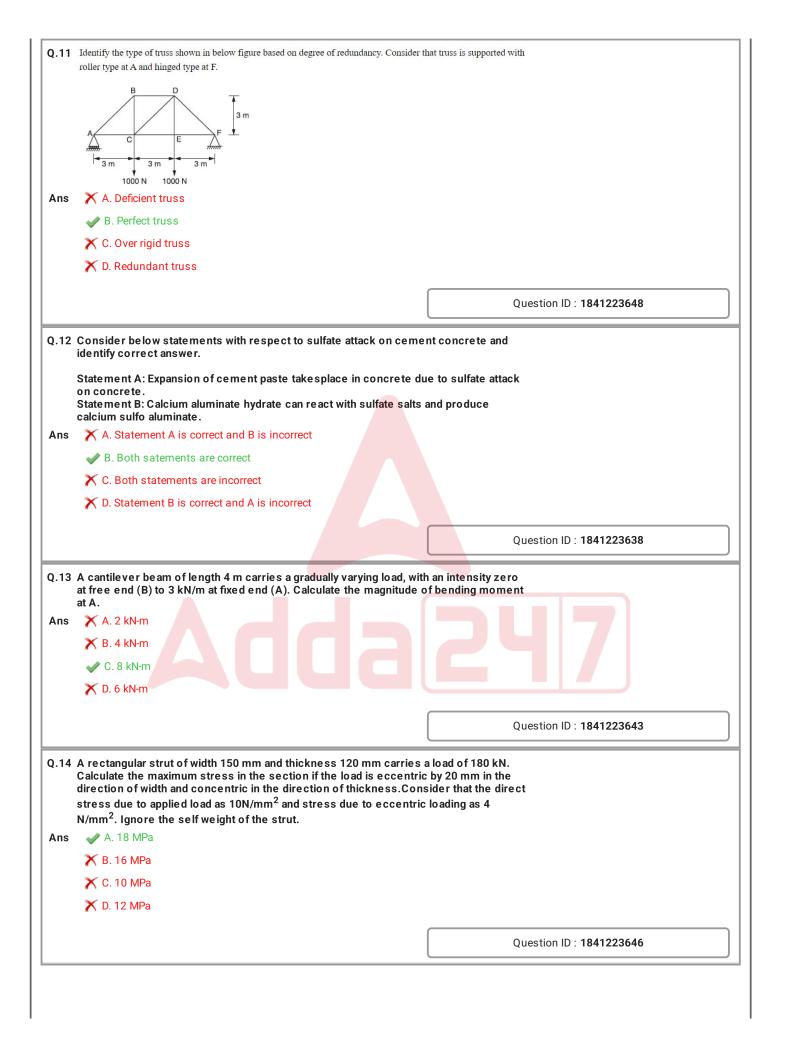
Q.17 Identify the correct statement regarding most economical rectangular channel. A. Hydraulic depth is half the depth of flow X B. Width is half the depth of flow X C. Width is 3/4th the depth of flow X D. Hydraulic depth is 3/4th the depth of flow Question ID: 1841223631 Q.18 Mhich of the following method of Irrigation is most suitable method for Steep land /Terrain? Ans X A. Check Flooding X B. Basin Flooding X C. Border Flooding D. Free Flooding Question ID: 1841223623 Q.19 Identify the Dicken's formula used for estimating the Flood Discharge (Q). ✓ A. Q=CA^{3/4}, where A is the catchment area and C is flood coefficient. \times B. Q = 123A^{1/2}, where A is the catchment area. \times C. Q = CA^{5/6}, where A is the catchment area and C is flood coefficient. \times D. Q = CA^{2/3}, where A is the catchment area and C is flood coefficient. Question ID: 1841223624 Q.20 In the chemical method for underpinning foundations, which of the following solution is injected in water after pipes are driven? A. Sodium Silicate Ans X B. Calcium Silicate X C. Sulphate X D. Magnesium Silicate Question ID: 1841223620 Section: Discipline 3 Q.1 Which among the following factor increases the rate of demand in the consumption of Ans X A. Stable community X B. Increased water rates C. High pressure in the system

Question ID: 1841223649

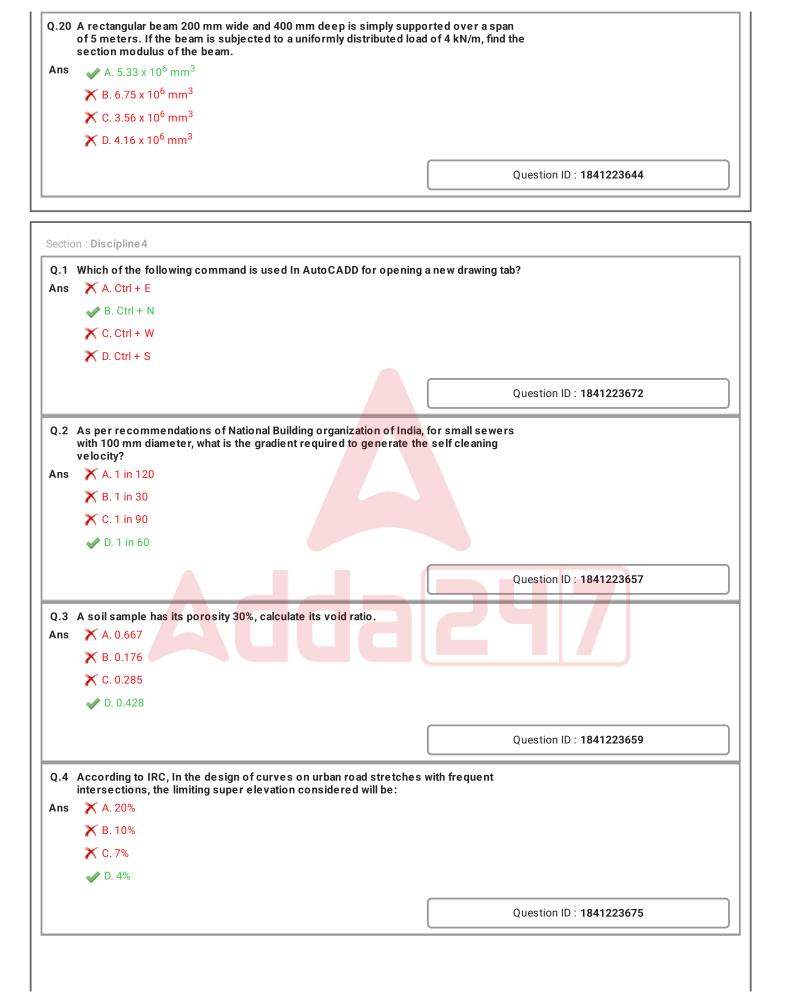
X D. Intermittent supply

| ۱ns | X A. 500 mg/l | |
|-----|---|--|
| | ★ B. 600 mg/l | |
| | ✓ C. 400 mg/l | |
| | X D. 200 mg/l | |
| | | |
| | Question ID : 1841223652 | |
| Q.3 | Schmutzdecke is a surface coating formed in which type of filter in filtration process? | |
| Ans | X A. Mixed Media Filter | |
| | ✓ B. Slow Sand Filter | |
| | ★ C. Dual Media Filter | |
| | X D. Rapid Sand Filter | |
| | | |
| | Question ID : 1841223654 | |
| Q.4 | Calculate the bulk modulus of a material, whose young's modulus is 120 Gpa and poisson's ratio 0.25. | |
| Ans | ★ A. 100 Gpa | |
| | ★ B. 60 Gpa | |
| | ✓ C. 80 Gpa | |
| | ✗ D. 40 Gpa | |
| | | |
| | Question ID : 1841223642 | |
| Q.5 | Identify the correct statement with respect to various types of admixtures used in making concrete. | |
| Ans | A. Addition of Superplasticizers in making concrete decreases the workability of concrete for a given water cement ratio. | |
| | B. Use of retarders in making concrete allows the concrete to increase the rate of early | |
| | strength development in concrete | |
| | C. Accelerating admixtures are added to allow the concrete to be plastic and workable for a longer time than concrete without accelerators. | |
| | ✓ D. Addition of Superplasticizers in making concrete decreases the water cement ratio | |
| | required to attain a particular degree of workability. | |
| | Question ID : 1841223641 | |
| | | |
| Q.6 | Socket and spigot are absent in which of the following joint used in the joints of Sewer pipes. | |
| Ans | X A. Tyton Joint | |
| | ✓ B. Viking Johnson Coupling Joint | |
| | ★ C. Expansion Joint | |
| | X D. Socket and Spigot Joint | |
| | | |
| | Question ID : 1841223651 | |

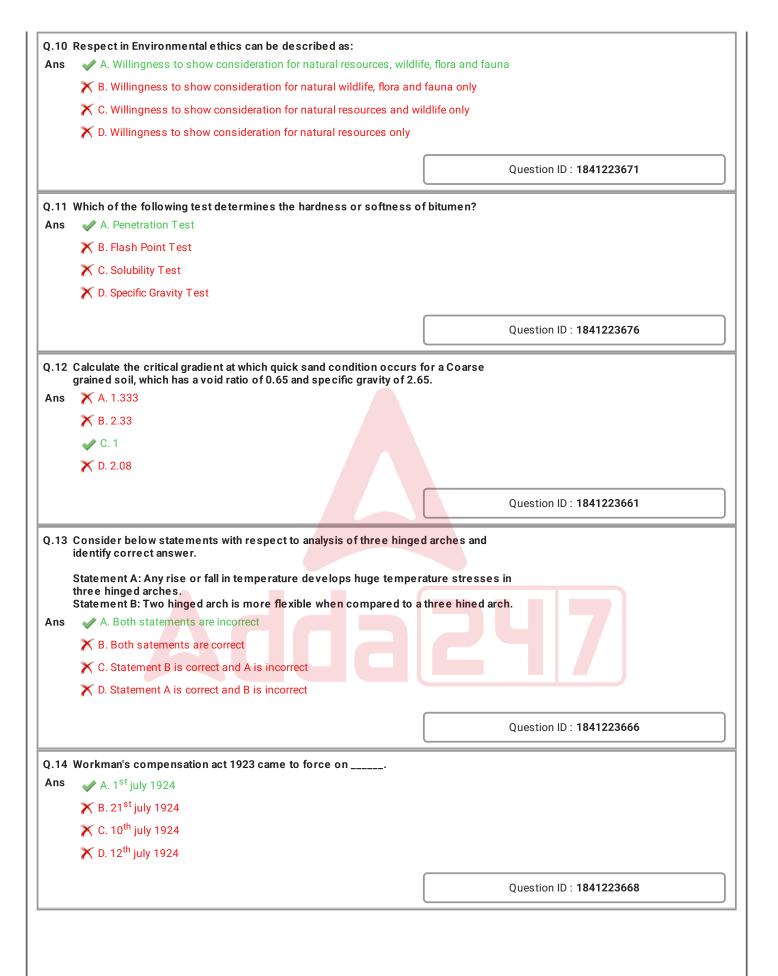
| Q.7 | A city has a supply of 15000 cubic meters of water per day is treated with a chlorine dosage of 0.5 ppm. For this purpose, the requirement of 25% bleaching powder per day would be. |
|------|---|
| Ans | X A. 45 kg |
| | ✓ B. 30 kg |
| | X C. 15 kg |
| | ★ D. 90 kg |
| | |
| | Question ID : 1841223655 |
| Q.8 | Which of the following in not the natural light weight aggregate used in making light weight concrete? |
| Ans | ✓ A. Perlite |
| | X B. Scoria |
| | ★ C. Diatomite |
| | X D. Pumice |
| | |
| | Question ID : 1841223639 |
| Ans | Consider below statements with respect to shear stress distribution in T sections and identify correct answer. Statement A: Shear stress developed in any T section will always be maximum at the junction of flange and web. Statement B: Shear stress developed in a T section will be maximum at its neutral axis. A. Statement A is correct and B is incorrect B. Statement B is correct and A is incorrect C. Both statements are incorrect D. Both satements are correct |
| Q.10 | Consider below statements with respect to workability of concrete and identify correct answer. Statement A: For a given quantity of water and paste, smaller size of coarse aggregates will give higher workability. Statement B: Lower aggregate cement ratio make the concrete mix cohesive and fatty to give better workability A. Both satements are correct B. Statement B is correct and A is incorrect C. Both statements are incorrect D. Statement A is correct and B is incorrect |
| | Question ID : 1841223640 |
| | |



| Q.15 | In the design of a sedimentation tank, a flow of 5 MLD occurs. If rate is to be 2 liters/day/cm ² , calculate the surface area of basin | |
|------|--|---|
| Ans | X A. 25000 | |
| | ★ B. 250 | |
| | ✓ C. 2500 | |
| | X D. 25 | |
| | | |
| | | Question ID : 1841223653 |
| Q.16 | The most suitable type of Distribution system in which main pipe around the area i.e., peripherally for a town or area having well proads is? | e lines are provided planned streets and |
| Ans | X A. Reticulation System | |
| | X B. Grid-Iron System | |
| | ✓ C. Circular System | |
| | 🗙 D. Dead End System | |
| | | |
| | | Question ID : 1841223656 |
| Q.18 | ★ B. 30πkW ★ C. 40πkW ★ D. 25πkW Which of the following method is more suitable for transportation highrise construction projects and fast too? | Question ID: 1841223647 |
| | X D. Dumpers | Question ID: 1841223637 |
| Q.19 | An Impermeable Geologic formation which neither contains wa | nter nor transmits water |
| Ans | | |
| | ★ B. Aquitard | |
| | ★ C. Aquifer | |
| | # # 1 T T | |
| | ◆ D. Aquifuge | |
| | ✓ D. Aquifuge | |



Q.5 According to IS soil classification, Silty soil has: X A. Particles Larger than 75 micron Sieve and exhibits larger strength when air dried Ans 💢 B. Particles smaller than 75 micron Sieve and exhibits larger strength when air dried C. Particles smaller than 75 micron Sieve and exhibits little or no strength when air dried X D. Particles Larger than 75 micron Sieve and exhibits little or no strength when air dried Question ID: 1841223660 Q.6 Calculate the distribution factor for the member BA shown in below figure, consider that EI is constant through out its length ABC. Ans X A. 0.2 X B. 0.35 ✓ C. 0.47 X D. 0.58 Question ID: 1841223665 Q.7 According to Industrial dispute act 1947, no employer carrying on any public utility service shall strike or lock-out any of his workmen: X A. Within 48 days of giving such notice X B. Within 25 days of giving such notice C. Within 14 days of giving such notice X D. Within 20 days of giving such notice Question ID: 1841223669 Q.8 Which of the following shortcut is used in AutoCADD for trimming geometry? X A. TM Ans ✓ B. TR X C. T 🗙 D. TI Question ID: 1841223673 Q.9 According to IS 18001: 2007 code book, the Occupational health and safety, principle 1 Refers to: Ans A. Commitment and Policy X B. Management review 💢 C. Implementation and operation 🗙 D. Planning Question ID: 1841223667



| Which of the following test is known as Quick shear test? | |
|--|---|
| X A. Drained test | |
| ✓ B. Undrained test | |
| X C. Unconsolidated drained test | |
| X D. Consolidated drained test | |
| | Question ID : 1841223663 |
| Consider a beam AB with fixed end supports at both of its ends, the of support reactions which can develop in the said case is beam is subjected to an inclined force of magnitude P kN. | |
| ৵ A. 6 | |
| ★ B. 3 | |
| X C. 5 | |
| ★ D. 4 | |
| | Question ID : 1841223664 |
| Identify the external issue in the process of understanding the co | nte xt of an |
| organization according to ISO 9004 : 2018. | |
| | |
| | |
| ★ C. Innovation | |
| ✓ D. Natural Environment | |
| | Question ID : 1841223670 |
| What is the shape of front view if a circular su <mark>rface</mark> plane is making both Horizontal and vertical plane? | 30 degrees with |
| 🗙 A. Oval | |
| X B. Line | |
| ✓ C. Ellipse | |
| X D. Circle | |
| | |
| | Question ID : 1841223674 |
| The most uniform soil deposit formed after transportation of soil i | is: |
| X A. Shore Deposit | |
| ➤ B. Delta Deposit | |
| C. Wind Laid Deposit | |
| X D. Glacial Deposit | |
| | Question ID : 1841223658 |
| | ★ A. Drained test ★ B. Undrained test ★ C. Unconsolidated drained test ★ D. Consolidated drained test ★ D. A. 6 ★ B. 3 ★ C. 5 ★ D. 4 ★ D. A. Resources ★ B. Size and Complexity ★ C. Innovation ★ D. Natural Environment ★ D. Natural Environment ★ B. Line ★ C. Ellipse ★ D. Circle ★ D. Circle The most uniform soil deposit formed after transportation of soil in A. Shore Deposit ★ B. Delta Deposit ★ C. Wind Laid Deposit |

Q.20 Identify the Hough Compression index. (C_c) equation for precompressed soil, where, e_o is in-situ void ratio.

Ans

$$C_c = 0.15 (e_o - 0.27)$$

$$\times$$
 B. $C_c = 0.2 (e_o - 0.27)$

$$\sim C_c = 0.3 (e_o - 0.27)$$

$$C_c = 0.25 (e_o - 0.27)$$

Question ID: 1841223662

Section: Discipline 5

Q.1 To calculate the compressive strength of compression member, Imperfection factor considered for Buckling 'class d' is _____.

Ans X A. 0.21

X B. 0.49

X C. 0.34

✓ D. 0.76

Question ID: 1841223691

Q.2 Consider below statements with respect to facing points of turnouts in railway crossings and identify correct answer.

Statement A: Trains pass over the Crossing first and then they pass over Switches. Statement B: Trains pass over the switches first and then they pass over crossing.

Ans A. Statement B is correct and A is incorrect

X B. Statement A is correct and B is incorrect

X C. Both satements are correct

X D. Both statements are incorrect

Question ID: 1841223679

Q.3 Minimum thickness specified by IRC-78-2000 for well steining in bridge foundation is

ns 💢 A. 600 mm

X B. 300 mm

✓ C. 500 mm

X D. 400 mm

Question ID: 1841223680

| Q.4 | In a bolted connection, the ratio of net tensile area at root of thread shank area of bolt may be taken as as per IS 1367 (Part-1) or proof table | s to nominal plain in the absence of |
|------|---|---|
| Ans | X A. 0.88 | |
| | ★ B. 0.87 | |
| | ★ C. 0.68 | |
| | ✓ D. 0.78 | |
| | | |
| | | Question ID : 1841223688 |
| Q.5 | Quantity of differents items of work in a two roomed building shown in below figure is to be method. The number of joints to be considered for the computation is | estimated using centre line |
| | A AOO M BOOM 6m × 6m SS SS OOD. | |
| Ans | ★ A. 3 | |
| | ✓ B. 2 | |
| | ★ C.1 | |
| | X D. 4 | |
| | | Question ID : 1841223694 |
| | | Question ID . 1841223694 |
| Q.6 | What is the Sleeper density used in Indian railways for the main trac | ks? (Where |
| Ans | M is Rail length in meters) ✓ A. M + 4 to M + 7 | |
| Alls | X B. M + 2 to M + 4 | |
| | X C. M + 5 to M + 10 | |
| | ➤ D. M + 3 to M + 6 | |
| | A B. W. C. C. W. C. | |
| | | Question ID : 1841223678 |
| Q.7 | The ductility factor considered for common structural steels exhibit | |
| | specified ductility, while calculating effective net area in case of desmembers will be | sign of tension |
| Ans | X A. 2 | |
| | X B. 0 | |
| | ✓ C. 1 | |
| | X D. 3 | |
| | | |
| | | Question ID : 1841223689 |
| | | |
| | | |
| | | |

| Q.8 | According to IS 800 - 2007, the effective length of prismatic compression member of unsup against rotation and translation at both ends will be | ported length L is restrained |
|------|---|---------------------------------|
| Ans | ✓ A. 0.65L | |
| | ★ B. 1.2L | |
| | ★ C. 2L | |
| | ★ D. 0.8L | |
| | | |
| | | Question ID : 1841223690 |
| 0.9 | Identify the silicious rock based on chemical classification of Rocl | (\$. |
| Ans | X A. Marble | |
| | ✓ B. Gneiss | |
| | X C. Laterite | |
| | X D. Dolomite | |
| | | |
| | | Question ID : 1841223681 |
| Q.10 | While conducting tension test on cement, load on the Briquette sl | nould be applied at: |
| Ans | X A. 0.13 times from both the edges | |
| | X B. One third from both the edges | |
| | C. The centre | |
| | ➤ D. Two third from both edges | |
| | | |
| | | Question ID : 1841223682 |
| Q.11 | A building requires 9 RCC columns of size 0.2 m breadth, 0.2 m th | |
| | height. Estimate the quantity of steel reinforcement required, if th reinforcement to be provided is 1.5% by their gross volume. | e steel |
| Ans | | |
| | ✓ B. 1.695 quintal | |
| | ★ C. 1.897 quintal | |
| | ★ D. 2.469 quintal | |
| | | |
| | | Question ID : 1841223695 |
| Q.12 | In which of the following case the lime slakes relatively in slow ma | nner during Slaking |
| Ano | of lime? | |
| Ans | ✓ A. Limes from fine grained stones and Dense lumpy lime ✗ B. Limes from fine grained stones and Pulverized lime | |
| | X C. Limes from Coarse grained stones and Pense lumpy lime | |
| | | |
| | X D. Limes from Coarse grained stones and lumpy lime | |
| | | Question ID : 1841223683 |
| | | |
| | | |
| | | |
| | | |

| | to arrive the cost? | |
|-------------|--|---------------------------------|
| Ans | X A. Preliminary estimate | |
| | X B. Cube rate estimate | |
| | ★ C. Plinth area estimate | |
| | ✓ D. Detailed estimate | |
| | | Ougation ID : 1941222402 |
| | | Question ID : 1841223692 |
| Q.14 | According to IS-2062 for E 165 (Fe 290) grade of steel, the me percentage is | ninimum elongation |
| Ans | | |
| | ★ B. 72 | |
| | ✓ C. 23 | |
| | ★ D. 30 | |
| | | |
| | | Question ID : 1841223686 |
| Q.15 | Consider below statements with respect to terms used in vacorrect answer. | aluation and identify |
| | Statement A: The value of a property at the end of the utility dismantled is known as scrap value. Statement B: The value of property or structure reduced due date in style" is known as obsolescence. | |
| | | |
| Ans | X A. Both satements are correct | |
| Ans | ✗ A. Both satements are correct✗ B. Statement A is correct and B is incorrect | |
| Ans | | |
| Ans | X B. Statement A is correct and B is incorrect | |
| Ans | ➤ B. Statement A is correct and B is incorrect C. Statement B is correct and A is incorrect | |
| Ans | ➤ B. Statement A is correct and B is incorrect C. Statement B is correct and A is incorrect | Question ID: 1841223696 |
| Q.16 | ➤ B. Statement A is correct and B is incorrect ✓ C. Statement B is correct and A is incorrect ➤ D. Both statements are incorrect What Is the maximum permissible speed for group D Indian Frailway specification? | |
| | ★ B. Statement A is correct and B is incorrect ★ C. Statement B is correct and A is incorrect ★ D. Both statements are incorrect What Is the maximum permissible speed for group D Indian Frailway specification? ★ A. 130 kmph | |
| Q.16 | ➤ B. Statement A is correct and B is incorrect ✓ C. Statement B is correct and A is incorrect ➤ D. Both statements are incorrect What Is the maximum permissible speed for group D Indian Frailway specification? ➤ A. 130 kmph ➤ B. 160 kmph | |
| Q.16 | ★ B. Statement A is correct and B is incorrect ★ C. Statement B is correct and A is incorrect ★ D. Both statements are incorrect What Is the maximum permissible speed for group D Indian Frailway specification? ★ A. 130 kmph ★ B. 160 kmph ★ C. 120 kmph | |
| Q.16 | ➤ B. Statement A is correct and B is incorrect ✓ C. Statement B is correct and A is incorrect ➤ D. Both statements are incorrect What Is the maximum permissible speed for group D Indian Frailway specification? ➤ A. 130 kmph ➤ B. 160 kmph | |
| Q.16 | ★ B. Statement A is correct and B is incorrect ★ C. Statement B is correct and A is incorrect ★ D. Both statements are incorrect What Is the maximum permissible speed for group D Indian Frailway specification? ★ A. 130 kmph ★ B. 160 kmph ★ C. 120 kmph | |
| Q.16 | ★ B. Statement A is correct and B is incorrect ★ C. Statement B is correct and A is incorrect ★ D. Both statements are incorrect What Is the maximum permissible speed for group D Indian Frailway specification? ★ A. 130 kmph ★ B. 160 kmph ★ C. 120 kmph | Railways as per Indian |
| Q.16 Ans | ★ B. Statement A is correct and B is incorrect ★ C. Statement B is correct and A is incorrect ★ D. Both statements are incorrect What Is the maximum permissible speed for group D Indian Frailway specification? ★ A. 130 kmph ★ B. 160 kmph ★ C. 120 kmph | Question ID: 1841223677 |
| Q.16 Ans | ★ B. Statement A is correct and B is incorrect ★ C. Statement B is correct and A is incorrect ★ D. Both statements are incorrect What Is the maximum permissible speed for group D Indian Frailway specification? ★ A. 130 kmph ★ B. 160 kmph ★ C. 120 kmph ★ D. 100 kmph Which of the following is the correct unit of measurement for the specific and the | Question ID: 1841223677 |
| Q.16 Ans | ★ B. Statement A is correct and B is incorrect ★ C. Statement B is correct and A is incorrect ★ D. Both statements are incorrect What Is the maximum permissible speed for group D Indian Frailway specification? ★ A. 130 kmph ★ B. 160 kmph ★ C. 120 kmph ★ D. 100 kmph Which of the following is the correct unit of measurement fo boulder"? | Question ID: 1841223677 |
| Q.16 Ans | ★ B. Statement A is correct and B is incorrect ★ C. Statement B is correct and A is incorrect ★ D. Both statements are incorrect What Is the maximum permissible speed for group D Indian Frailway specification? ★ A. 130 kmph ★ B. 160 kmph ★ C. 120 kmph ★ D. 100 kmph Which of the following is the correct unit of measurement foboulder"? ★ A. Cubic meter | Question ID: 1841223677 |
| Q.16 Ans | ★ B. Statement A is correct and B is incorrect ★ C. Statement B is correct and A is incorrect ★ D. Both statements are incorrect What Is the maximum permissible speed for group D Indian Frailway specification? ★ A. 130 kmph ★ B. 160 kmph ★ C. 120 kmph ★ D. 100 kmph Which of the following is the correct unit of measurement fo boulder"? ★ A. Cubic meter ★ B. Numbers | Question ID: 1841223677 |
| Q.16 Ans | ★ B. Statement A is correct and B is incorrect ★ C. Statement B is correct and A is incorrect ★ D. Both statements are incorrect What Is the maximum permissible speed for group D Indian Frailway specification? ★ A. 130 kmph ★ B. 160 kmph ★ C. 120 kmph ★ D. 100 kmph Which of the following is the correct unit of measurement foboulder"? ★ A. Cubic meter ★ B. Numbers ★ C. Square meter | Question ID: 1841223677 |

