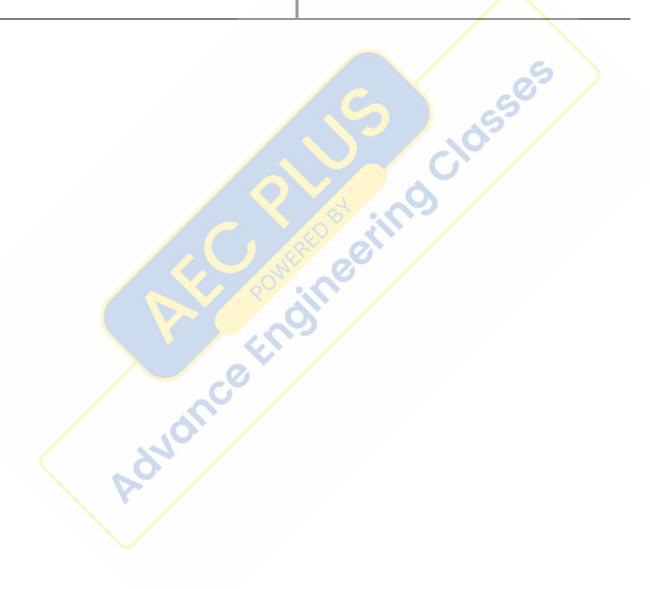
DSSSB JE & Section Officer

Previous Year Paper (Civil) 28 June 2022 Shift 2



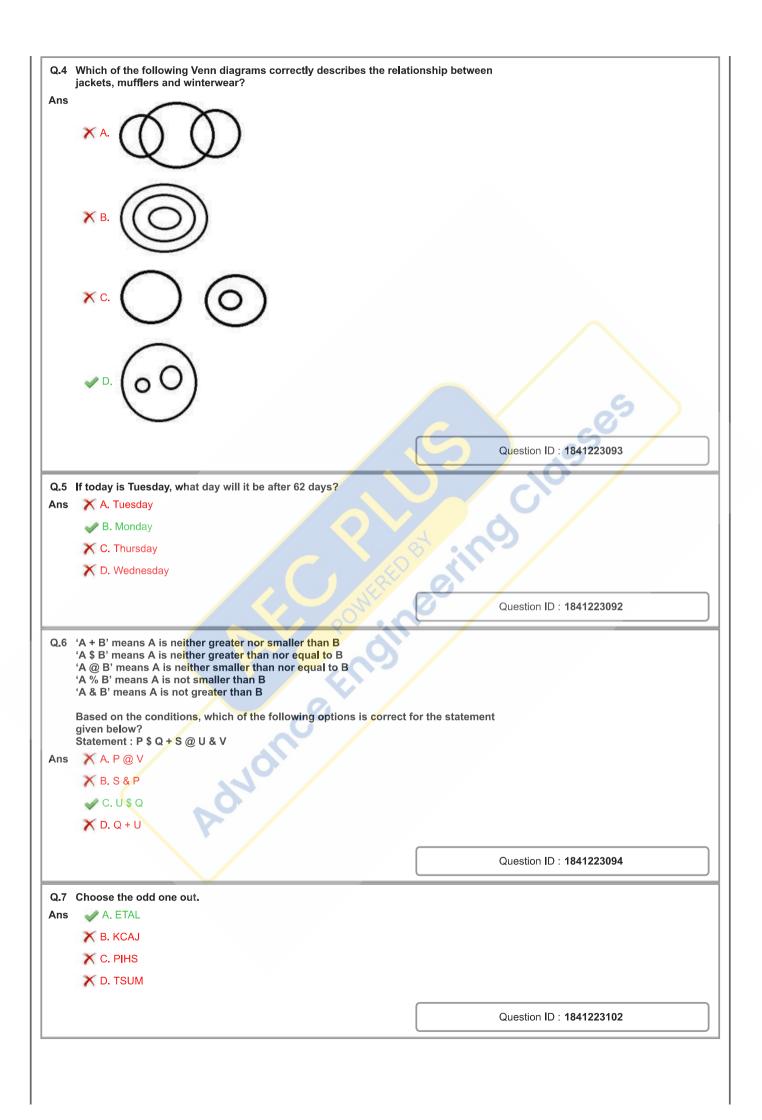


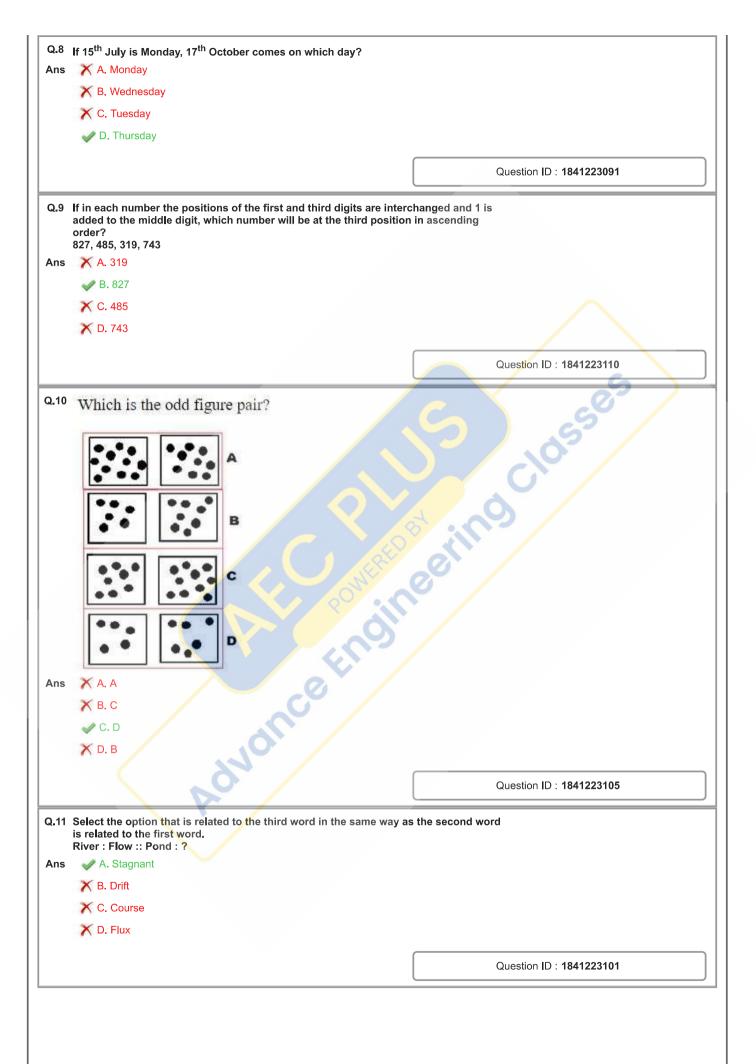
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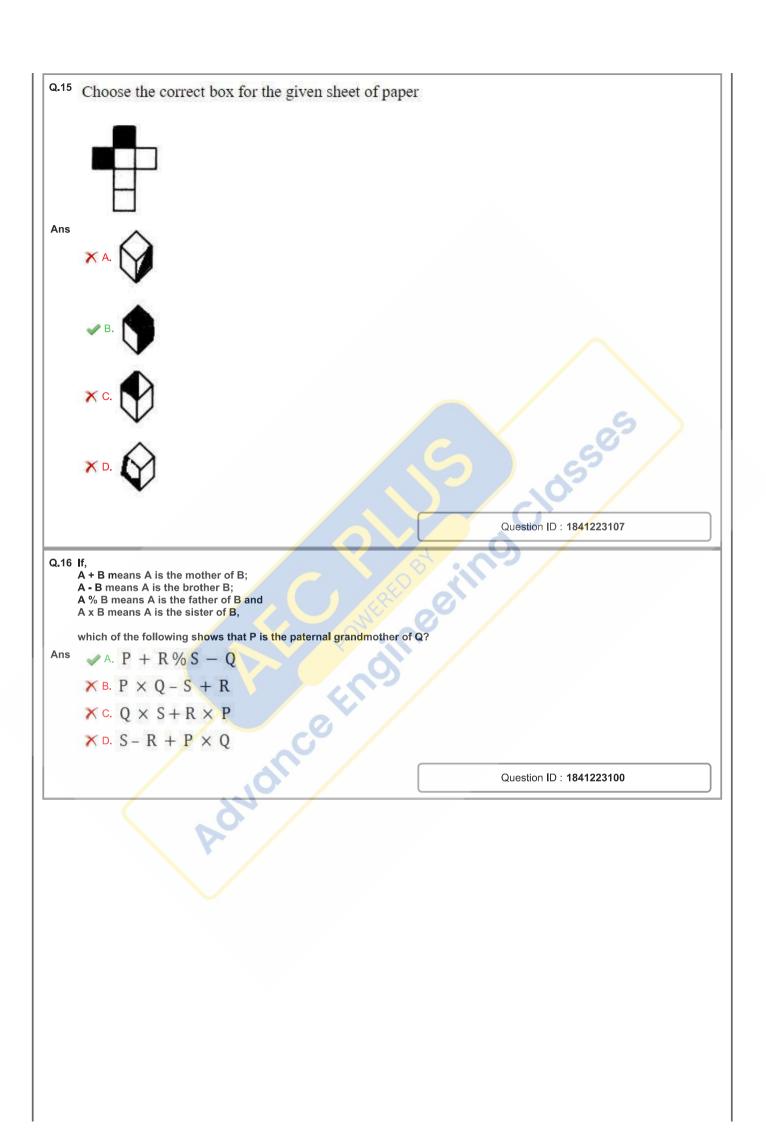
| Participant ID | |
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| Participant Name | |
| Test Center Name | |
| Test Date | 28/06/2022 |
| Test Time | 12:30 PM - 2:30 PM |
| Subject | Junior Engineer (Civil) or Section Officer (Civil) |

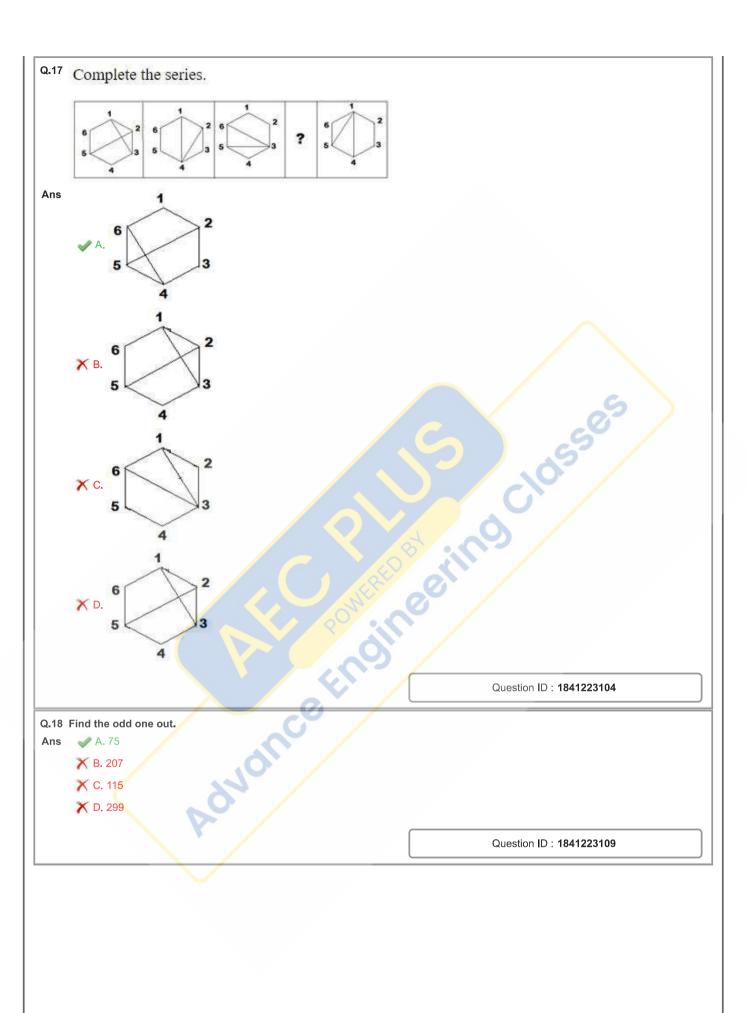
Section: Mental Ability Find the next number in the series. 165, 120, 85, 60, ? X A. 40 Ans X B. 50 √ C. 45 X D. 55 Question ID: 1841223108 Q.2 Two statements are given followed by three conclusions. The given statements are to be considered true. Decide which of the given conclusions logically follows from the given statements disregarding commonly known facts. Statement I: All teachers are truthful. ceknoinee Statement II: All truthful are just. Conclusion I: Some truthful are teachers. Conclusion II: No truthful is a teacher. Conclusion III: Some just are teachers. X A. Conclusion II and III follow X B. Conclusion I and II follow C. Conclusion I and III follow X D. Only conclusion I follows Question ID: 1841223103 Q.3 Which option will complete the series? GAF, GEF, GIF, GOF, ? X A. HAG X B. GAH X C. FUG JD. GUF Question ID: 1841223095

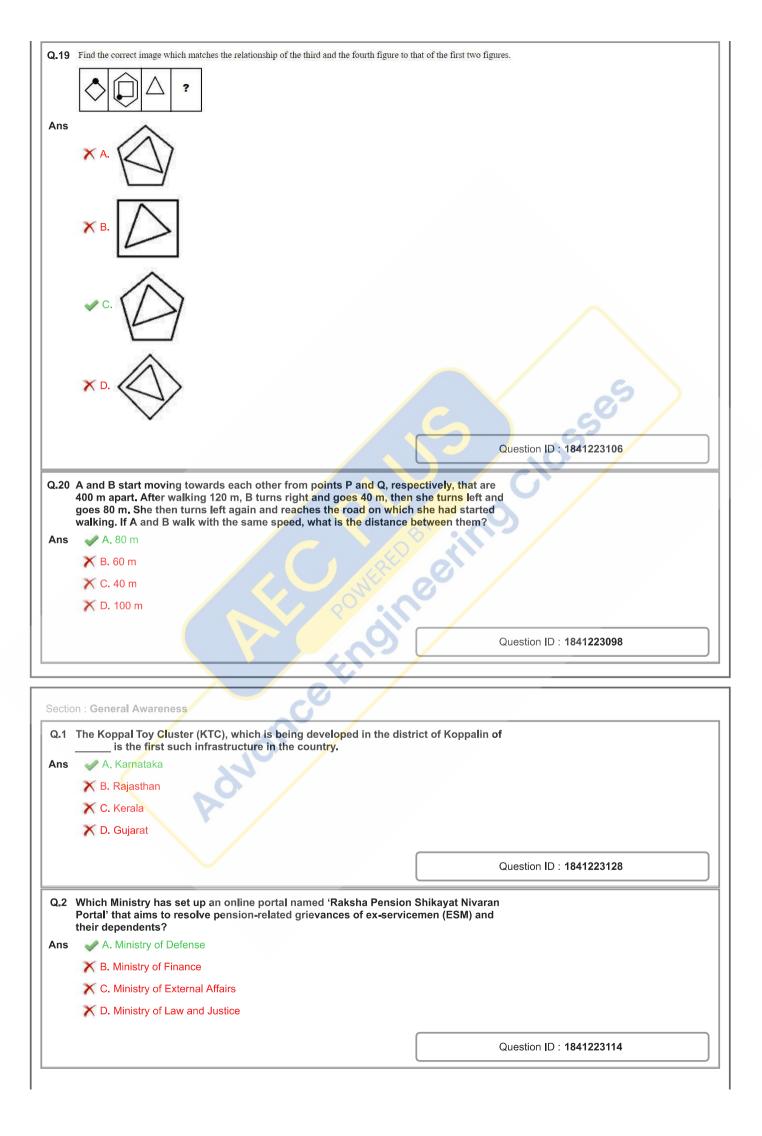




Q.12 In the word 'STRING', how many pairs of the letters have the same number of letters between them in the word as in the English Alphabet? Ans X A. 4 X C. 3 X D. 1 Question ID: 1841223096 Q.13 In a certain code PEACEFUL is written as QDBBFEVK. How will you code COMMOTION? X A. DOOPLSNGO X B. BMMKORIMO X C. BLKKPSJNP D. DNNLPSJNO Question ID: 1841223097 Q.14 If, A + B means that A is the mother of B A - B means A is the sister of B A x B means A is the father of B A ÷ B means A is the brother of B Which of the following options mean that R is the grandmother of S? Ans \checkmark A. R + P × Q ÷ S \times B. Q \times R - P + S \times c. R - P ÷ Q \times S \times D. P + R - Q ÷ S Question ID: 1841223099





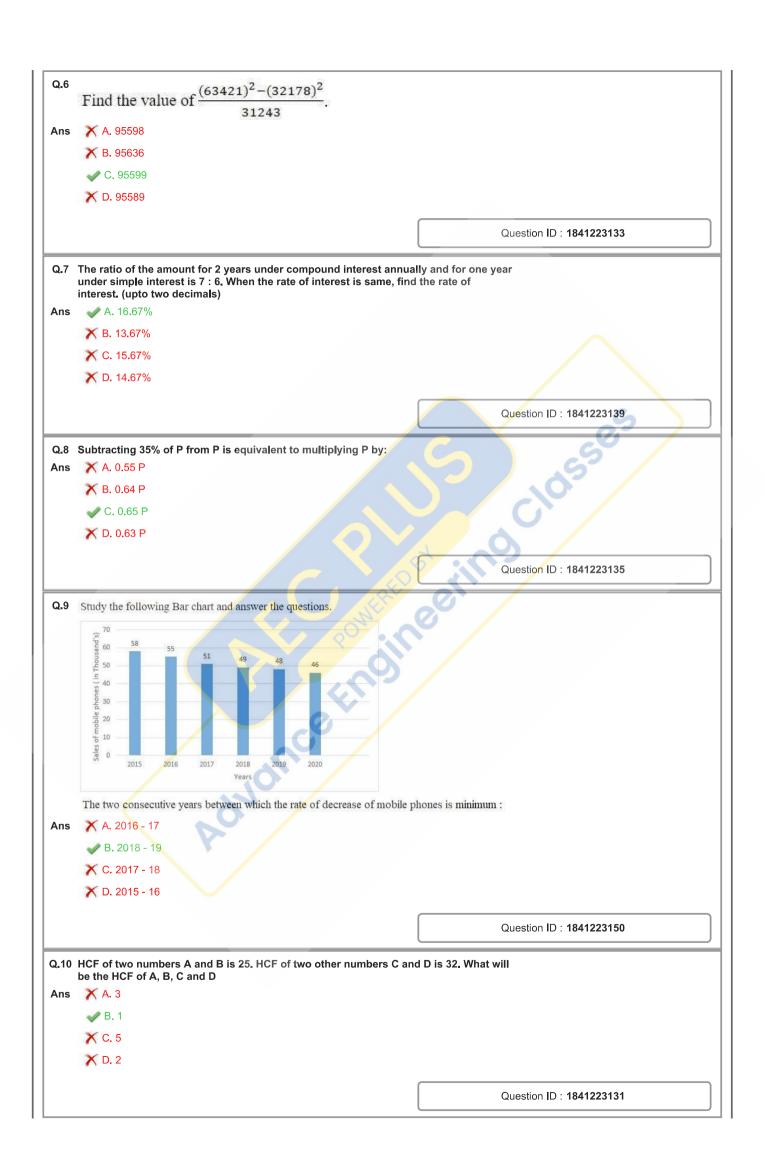


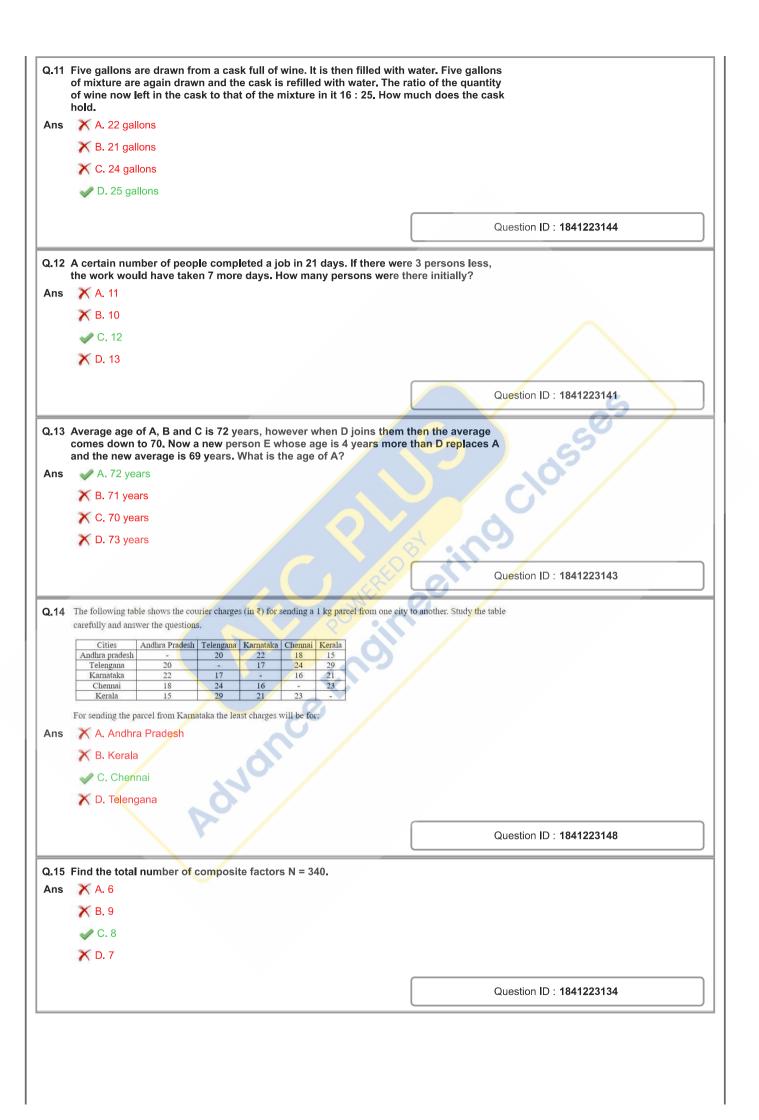
| | 2.3 One of the oldest Buddhist monuments in India, the Great Stupa at Sanchi was originally built in the 3rd century BCE by which king? | | |
|------------|--|--|--|
| Ans | ★ A. Krishnadevaraya ▶ B. Ashoka | | |
| | | | |
| | X C. Shah Jahan | | |
| | X D. Prithviraj Chauhan | | |
| | | 0 11 10 101100101 | |
| | | Question ID : 1841223121 | |
| Q.4 | Chalo, Wancho and Pasi Kongki are the folk dances of which of th | e following state? | |
| Ans | X A. Mizoram | | |
| | X B. Assam | | |
| | X C. Odisha | | |
| | ✓ D. Arunachal Pradesh | | |
| | | | |
| | | Question ID : 1841223123 | |
| Q.5 | Which of the following war songs are sung in Nagaland? | | |
| Ans | | 5 5505 | |
| | X B. Alha | 60 | |
| | X C. Baul | 53 | |
| | ✓ D. Hereileu | 10. | |
| | | | |
| | | Out of the ID + 4044000400 | |
| Q.6 | TCS partnered with whom to become the new title sponsor and off technology consulting partner of the Toronto Waterfront Marathon 2026? | | |
| Q.6 Ans | technology consulting partner of the Toronto Waterfront Marathon 2026? | icial IT services and | |
| | technology consulting partner of the Toronto Waterfront Marathon 2026? **A. UK Running Series* **B. Canada Running Series* | icial IT services and | |
| | technology consulting partner of the Toronto Waterfront Marathon 2026? X A. UK Running Series B. Canada Running Series C. US Running Series | icial IT services and | |
| | technology consulting partner of the Toronto Waterfront Marathon 2026? X A. UK Running Series B. Canada Running Series C. US Running Series | icial IT services and | |
| Ans | technology consulting partner of the Toronto Waterfront Marathon 2026? X A. UK Running Series B. Canada Running Series C. US Running Series | Question ID : 1841223118 | |
| Ans | technology consulting partner of the Toronto Waterfront Marathon 2026? X A. UK Running Series B. Canada Running Series C. US Running Series D. Australia Running Series The government of which state has signed Bollywood actor Sanjay ambassador on the occasion of the golden jubilee celebrations, m | Question ID : 1841223118 | |
| Ans | technology consulting partner of the Toronto Waterfront Marathon 2026? X A. UK Running Series B. Canada Running Series C. US Running Series D. Australia Running Series The government of which state has signed Bollywood actor Sanjay ambassador on the occasion of the golden jubilee celebrations, m of the naming of the state? | Question ID : 1841223118 | |
| Ans | technology consulting partner of the Toronto Waterfront Marathon 2026? X A. UK Running Series B. Canada Running Series C. US Running Series D. Australia Running Series The government of which state has signed Bollywood actor Sanjay ambassador on the occasion of the golden jubilee celebrations, m of the naming of the state? A. Himachal Pradesh | Question ID : 1841223118 | |
| Ans | technology consulting partner of the Toronto Waterfront Marathon 2026? X A. UK Running Series B. Canada Running Series C. US Running Series D. Australia Running Series The government of which state has signed Bollywood actor Sanjay ambassador on the occasion of the golden jubilee celebrations, m of the naming of the state? A. Himachal Pradesh B. Arunanchal Pradesh | Question ID : 1841223118 | |
| Ans | technology consulting partner of the Toronto Waterfront Marathon 2026? X A. UK Running Series B. Canada Running Series C. US Running Series D. Australia Running Series The government of which state has signed Bollywood actor Sanjay ambassador on the occasion of the golden jubilee celebrations, m of the naming of the state? X A. Himachal Pradesh B. Arunanchal Pradesh C. Kerala | Question ID : 1841223118 | |
| Ans | technology consulting partner of the Toronto Waterfront Marathon 2026? X A. UK Running Series B. Canada Running Series C. US Running Series D. Australia Running Series The government of which state has signed Bollywood actor Sanjay ambassador on the occasion of the golden jubilee celebrations, m of the naming of the state? X A. Himachal Pradesh B. Arunanchal Pradesh C. Kerala | Question ID : 1841223118 | |
| Q.7 | technology consulting partner of the Toronto Waterfront Marathon 2026? X A. UK Running Series B. Canada Running Series C. US Running Series D. Australia Running Series The government of which state has signed Bollywood actor Sanjay ambassador on the occasion of the golden jubilee celebrations, m of the naming of the state? X A. Himachal Pradesh B. Arunanchal Pradesh C. Kerala | Question ID : 1841223118 Question ID : 1841223118 Question ID : 1841223116 | |
| Q.7 | technology consulting partner of the Toronto Waterfront Marathon 2026? X A. UK Running Series B. Canada Running Series C. US Running Series D. Australia Running Series The government of which state has signed Bollywood actor Sanjay ambassador on the occasion of the golden jubilee celebrations, mof the naming of the state? X A. Himachal Pradesh B. Arunanchal Pradesh C. Kerala D. Karmataka | Question ID : 1841223118 Question ID : 1841223118 Question ID : 1841223116 | |
| Q.7 Ans | technology consulting partner of the Toronto Waterfront Marathon 2026? X A. UK Running Series B. Canada Running Series C. US Running Series D. Australia Running Series The government of which state has signed Bollywood actor Sanjay ambassador on the occasion of the golden jubilee celebrations, m of the naming of the state? A. Himachal Pradesh B. Arunanchal Pradesh C. Kerala D. Karnataka | Question ID : 1841223118 Question ID : 1841223118 Question ID : 1841223116 | |
| Q.7 Ans | technology consulting partner of the Toronto Waterfront Marathon 2026? X A. UK Running Series B. Canada Running Series C. US Running Series D. Australia Running Series The government of which state has signed Bollywood actor Sanjay ambassador on the occasion of the golden jubilee celebrations, m of the naming of the state? X A. Himachal Pradesh B. Arunanchal Pradesh C. Kerala D. Karnataka Which of the following is a scientific device that is used to measur of flow of a fluid that is flowing in a pipe? X A. Tachometer | Question ID : 1841223118 Question ID : 1841223118 Question ID : 1841223116 | |
| Q.7 Ans | technology consulting partner of the Toronto Waterfront Marathon 2026? X A. UK Running Series B. Canada Running Series C. US Running Series D. Australia Running Series The government of which state has signed Bollywood actor Sanjay ambassador on the occasion of the golden jubilee celebrations, mof the naming of the state? A. Himachal Pradesh B. Arunanchal Pradesh C. Kerala D. Karnataka Which of the following is a scientific device that is used to measur of flow of a fluid that is flowing in a pipe? A. Tachometer B. Telemeter | Question ID : 1841223118 Question ID : 1841223118 Question ID : 1841223116 | |
| Q.7 Ans | technology consulting partner of the Toronto Waterfront Marathon 2026? X A. UK Running Series B. Canada Running Series C. US Running Series D. Australia Running Series D. Australia Running Series A. Himachal Pradesh B. Arunanchal Pradesh C. Kerala D. Karnataka Which of the following is a scientific device that is used to measur of flow of a fluid that is flowing in a pipe? A. Tachometer B. Telemeter C. Venturimeter | Question ID : 1841223118 Question ID : 1841223118 Question ID : 1841223116 | |

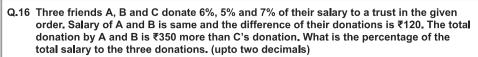
| Q.9 | Which microfinance institution has an extensive network of branches throughout 22 states in India and offers microloans to women entrepreneurs from low-income households for income generation activities? | |
|-------------|--|---|
| Ans | X A. Bandhan Financial Services Limited | |
| | X B. Arohan Financial Services Limited | |
| | C. Asirvad Microfinance Limited | |
| | X D. Cashpor Micro Credit | |
| | | |
| | | Question ID : 1841223125 |
| 0.10 | Big Dipper, the Great Bear or the Saptarshi is an example of | |
| Ans | A. Asteroids | 2 |
| | X B. Planets | |
| | ✓ C. Constellations | |
| | X D. Meteoroids | |
| | The state of the s | |
| | | Question ID : 1841223129 |
| | | |
| Q.11 | Jallikattu is celebrated in the Indian state of Tamil Nadu as a part o on which day? | f Pongal celebration |
| Ans | X A. Pongolo Pongal | Co Co |
| | X B. Kannum Pongal - Fourth day | 150 |
| | ✓ C. Maattu Pongal day - Third day | |
| | X D. Bhogi - First day | |
| | | |
| | | Question ID : 1841223124 |
| | jurisdiction of Ministry of Finance, Government of India which was | established in |
| Ans | ✓ A. 1948 ★ B. 1950 ★ C. 1952 | established in |
| Ans | ✓ A. 1948 ➤ B. 1950 | established in |
| Ans | ✓ A. 1948 ★ B. 1950 ★ C. 1952 | Question ID : 1841223126 |
| | ✓ A. 1948 ★ B. 1950 ★ C. 1952 ★ D. 1945 | Question ID: 1841223126 |
| | ✓ A. 1948 ★ B. 1950 ★ C. 1952 | Question ID : 1841223126 |
| | A. 1948 ** B. 1950 ** C. 1952 ** D. 1945 Which state Government has decided to conduct a large-scale surthe impact of the COVID-19 pandemic on the psychological and em | Question ID : 1841223126 |
| Q.13 | A. 1948 X B. 1950 X C. 1952 X D. 1945 Which state Government has decided to conduct a large-scale surthe impact of the COVID-19 pandemic on the psychological and emof school children? | Question ID : 1841223126 |
| Q.13 | A. 1948 X B. 1950 X C. 1952 X D. 1945 Which state Government has decided to conduct a large-scale surthe impact of the COVID-19 pandemic on the psychological and emof school children? X A. Karnataka | Question ID : 1841223126 |
| Q.13 | A. 1948 ** B. 1950 ** C. 1952 ** D. 1945 Which state Government has decided to conduct a large-scale surthe impact of the COVID-19 pandemic on the psychological and en of school children? ** A. Karnataka ** B. Gujarat | Question ID : 1841223126 |
| Q.13 | A. 1948 X B. 1950 X C. 1952 X D. 1945 Which state Government has decided to conduct a large-scale surthe impact of the COVID-19 pandemic on the psychological and en of school children? X A. Karnataka X B. Gujarat X C. Maharashtra | Question ID : 1841223126 vey, to understand notional behaviour |
| Q.13 | A. 1948 X B. 1950 X C. 1952 X D. 1945 Which state Government has decided to conduct a large-scale surthe impact of the COVID-19 pandemic on the psychological and en of school children? X A. Karnataka X B. Gujarat X C. Maharashtra | Question ID : 1841223126 |
| Q.13 | A. 1948 X B. 1950 X C. 1952 X D. 1945 Which state Government has decided to conduct a large-scale surthe impact of the COVID-19 pandemic on the psychological and en of school children? X A. Karnataka X B. Gujarat X C. Maharashtra | Question ID : 1841223126 Vey, to understand notional behaviour Question ID : 1841223115 |
| Q.13 | A. 1948 ** B. 1950 ** C. 1952 ** D. 1945 Which state Government has decided to conduct a large-scale surthe impact of the COVID-19 pandemic on the psychological and en of school children? ** A. Karnataka ** B. Gujarat ** C. Maharashtra ** D. Delhi As per India's National Health Profile 2019, life expectancy in India | Question ID : 1841223126 Vey, to understand notional behaviour Question ID : 1841223115 |
| Q.13 Ans | A. 1948 X B. 1950 X C. 1952 X D. 1945 Which state Government has decided to conduct a large-scale surful the impact of the COVID-19 pandemic on the psychological and enforcement of school children? X A. Karnataka X B. Gujarat X C. Maharashtra D. Delhi As per India's National Health Profile 2019, life expectancy in India in 2012 - 16 and it is for males in the same period. | Question ID : 1841223126 Vey, to understand notional behaviour Question ID : 1841223115 |
| Q.13 Ans | A. 1948 X B. 1950 X C. 1952 X D. 1945 Which state Government has decided to conduct a large-scale surthe impact of the COVID-19 pandemic on the psychological and en of school children? X A. Karnataka X B. Gujarat X C. Maharashtra D. Delhi As per India's National Health Profile 2019, life expectancy in India in 2012 - 16 and it is for males in the same period. A. 67.4 | Question ID : 1841223126 Vey, to understand notional behaviour Question ID : 1841223115 |
| Q.13 Ans | A. 1948 X B. 1950 X C. 1952 X D. 1945 Which state Government has decided to conduct a large-scale surful the impact of the COVID-19 pandemic on the psychological and enterprise of school children? X A. Karnataka X B. Gujarat X C. Maharashtra D. Delhi As per India's National Health Profile 2019, life expectancy in India in 2012 - 16 and it is for males in the same period. A. 67.4 X B. 77.3 | Question ID : 1841223126 Vey, to understand notional behaviour Question ID : 1841223115 |
| Q.13 Ans | A. 1948 X B. 1950 X C. 1952 X D. 1945 Which state Government has decided to conduct a large-scale surthe impact of the COVID-19 pandemic on the psychological and en of school children? X A. Karnataka X B. Gujarat X C. Maharashtra D. Delhi As per India's National Health Profile 2019, life expectancy in India in 2012 - 16 and it is for males in the same period. A. 67.4 X B. 77.3 X C. 75 4 | Question ID : 1841223126 Vey, to understand notional behaviour Question ID : 1841223115 |

| Q.15 | The Indian Space Research Organisation has signed an agreemen smart devices maker to strengthen the research and development messaging service? | |
|------|---|--------------------------|
| Ans | X A. Lenovo | |
| | ✓ B. Oppo | |
| | X C. Xiaomi | |
| | X D. Huawei | |
| | | |
| | | Question ID : 1841223112 |
| Q.16 | Who served from 1809 to 1814 in the Revenue Department of the E also worked as a personal Diwan to Woodforde and Digby? | ast India Company |
| Ans | ✓ A. Raja Ram Mohan Roy | |
| | X B. Jyotiba Phule | |
| | X C. Bal Gangadhar Tilak | |
| | X D. Chandrashekhar Azad | |
| | B. Onandradiokida / Zad | |
| | | Question ID : 1841223120 |
| Q.17 | Warren Hastings established the Calcutta Madrassa in which year Mohammedan law? | for the teaching of |
| Ans | X A. 1813 | 65 |
| | ★ B. 1872 | |
| | ✓ C. 1780 | |
| | X D. 1742 | |
| | | |
| | | Question ID : 1841223119 |
| Q.18 | The Indian Space Research Organisation (ISRO) has signed foreign satellites during 2021-2023. | _for launching |
| Ans | ✓ A. six agreements with four countries | |
| | X B. three agreements with two countries | |
| | C. seven agreements with five countries | |
| | D. four agreements with four countries | |
| | A British agreements with real countries | |
| | | Question ID : 1841223113 |
| Q.19 | | men's Ice Hockey |
| Ans | Championship in Himachal Pradesh. A. 5 th | |
| 70 | | |
| | B. 9 th | |
| | ★ C. 6 th | |
| | ★ D. 8 th | |
| | | Question ID : 1841223117 |
| | | QUESTION IS: 1041225117 |
| Q.20 | The 7 th edition of the four-day India International Science Festival, from December 10 to 13, 2021. | (IISF) was held in |
| Ans | X A. Assam | |
| | X B. Sikkim | |
| | ✓ C. Goa | |
| | X D. Meghalaya | |
| | , D. Meghalaya | |
| | | |
| | | Question ID : 1841223111 |

| Section | Section : Arithmetic Ability | | |
|---------|---|--------------------------|--|
| Q.1 | 1 In a maternity Centre 6% of all the child birth result is twins. What is the approximate percentage of twins out of total children born. (upto one decimal) | | |
| Ans | | | |
| | ★ B. 8.3 | | |
| | ★ C. 9.3 | | |
| | X D. 10.3 | | |
| | | Question ID : 1841223136 | |
| | | | |
| Q.2 | The effective annual rate of interest corresponding to a compound in annum payable half yearly is: | nterest of 10% per | |
| Ans | X A. 9.25% | | |
| | ✓ B. 10.25% | | |
| | X C. 12.25% | | |
| | X D. 11.25% | | |
| | | 2/1 12 11111111 | |
| | | Question ID : 1841223138 | |
| Q.3 | Ravi can do three-fifth of the work in 9 days and Rakesh can finish t days. How long would they take to finish it together? | ne remaining in 14 | |
| Ans | ✓ A. 10.5 days | 100 | |
| | X B. 11 days | | |
| | ★ C. 11.5 days | | |
| | ➤ D. 10 days | 09 | |
| | | Question ID : 1841223142 | |
| Q.4 | What is the remainder when 1312 × 1313 × 1315 | s divided by 9 | |
| Ans | X A. 3 | 3.1144 5) 5. | |
| | X B. 0 | | |
| | ✓ C. 2 | | |
| | X D. 1 | | |
| | 60 | | |
| | | Question ID : 1841223132 | |
| Q.5 | A square is inscribed in a circle which is inscribed in an equilateral | riangle. If one side | |
| | of the triangle is 6 cm. Find the area of the square. | | |
| Ans | X A. 4 cm ² | | |
| | X B. 5 cm ² | | |
| | X C. 7 cm ² | | |
| | ✓ D. 6 cm ² | | |
| | | Question ID : 1841223146 | |
| | | | |
| | | | |







Ans X A. 4.02

X B. 4.15

✓ C. 6.05

X D. 3.46

Question ID: 1841223137

Q.17 A toy consists of a base that is the section of a sphere and a conical top. The volume of the conical top $36~\pi~cm^2$ and its height is 12 cm. The total height of the toy is 20 cm. The volume of the sphere from which the base has been extracted is:

Ans X A. 125π

X B, 127π

X C. 127.4π

D. 126.4π

Question ID : 1841223147

Q.18 The three sides of a triangle measure 5 cm, 12 cm and 13 cm respectively. A rectangle equal in area to the triangle has a length of 10 cm. The perimeter of the rectangle is

Ans X A, 24 cm

X C. 23 cm

X D. 25 cm

Question ID: 1841223145

Q.19 Study the following Bar chart and answer the questions.



The percentage increase or decrease in sales from 2019 to 2020 was:

Ans X A. 4.36

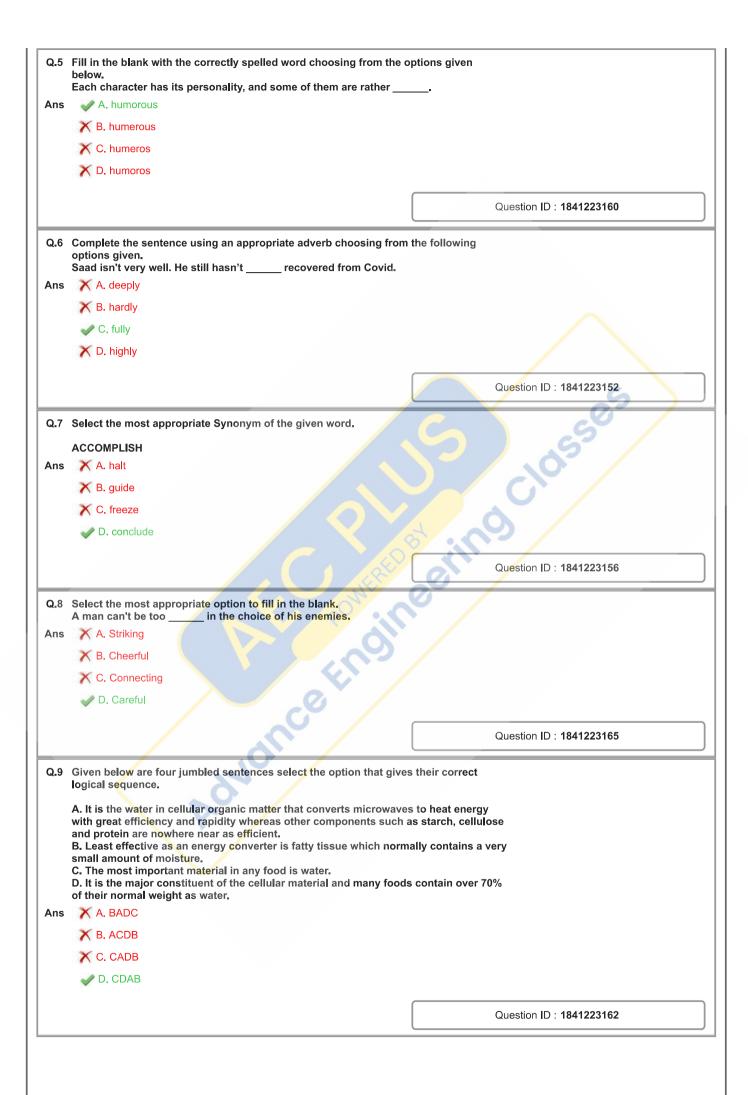
X B. 4.25

X C. 4.52

D. 4.34

| Ans | X A. 3 | |
|-------|---|----------------------------|
| | ★ B. 5 | |
| | ★ C. 4 | |
| | ✓ D. 6 | |
| | | |
| | | Question ID : 1841223140 |
| | | |
| | | |
| ectic | on : General English | |
|).1 | Select the most appropriate Antonym of the given word. | |
| | DAZZLE | |
| ns | X A. roam | |
| | ✓ B. dim | |
| | X C. blabber | |
| | X D. shoot | 6 |
| | | Question ID : 1841223155 |
| | | Question ID . 104 1223 133 |
| 2.2 | Complete the sentence using an appropriate preposition choosis | ng from the following |
| | options given the storm comes the calm. | |
| ns | ✓ A. after | 0' |
| | X B. above | |
| | X C. on | Ø () |
| | X D. across | |
| | | 60, |
| | | Question ID : 1841223153 |
| 2.3 | Complete the sentence using an appropriate preposition choosi | ng from the following |
| -, | options given. I have been learning the violin I was seven. | |
| ns | A F | |
| | X B. As X C. If D. Since | |
| | X C. If | |
| | D. Since | |
| | D. Onloc | |
| | 79 | Question ID : 1841223151 |
| _ | | |
| Q.4 | Fill in the blank with the correctly spelled word choosing from th below. | |
| | After observing the man and woman treating each other, we mad were married. | de an that they |
| ns | ✓ A. inference | |
| | | |
| | X B. inferance | |
| | X B. inferance X C. infarance | |
| | X C. infarance | |
| | | |

Q.20 x men can do a piece of work in 6 days. The same work can be done by (x + 3) men in 4 days. Find the value of x.



| Q.10 | Select the most appropriate option to fill in the blank. I like the little peddler has a crooked nose. | |
|------|---|--|
| Ans | X A. Which | |
| | X B. When | |
| | C. Who | |
| | X D. What | |
| | | |
| | | Question ID : 1841223164 |
| Q.11 | Given below are four jumbled sentences select the option that gives logical sequence. | their correct |
| | A. The domestic pressure cooker is usually constructed of heavy ga and the pressure is regulated by weights placed upon a release valve. B. A common practice in pressure cooking is to allow a copious flow the release valve before capping it with weights. C. A safety valve is always fitted to prevent pressure inadvertently be the safe and specified level for the vessel construction. D. This ensures that all air is removed before the cooking process safe and specified level for the vessel construction. | ve. w of steam from puilding up beyond |
| Ans | X A. BADC | |
| | ★ B. ADBC | |
| | X C. CDAB | (2) |
| | ✓ D. ACBD | 5 |
| | | Outstire ID : 4044000400 |
| | | Question ID : 1841223163 |
| Q.12 | Put the verbs in brackets into correct or more suitable verb form (fu choosing from the options given below. Mr. Mehta (give) another lecture at the same time next week. | ture tense) |
| Ans | X A. will gave | |
| | ✓ B. will be giving | |
| | X C. gave | |
| | X D. will gives | |
| | | 0 17 17 10 1000 |
| | | Question ID : 1841223154 |
| Q.13 | Select the most appropriate meaning which best expresses the mealidiom in the bold. He is ready to DISPOSE OFF his car for Rs.1,50,000. | ning of the given |
| Ans | X A. lend | |
| | X B. ruin | |
| | ✓ C. sell | |
| | X A. lend X B. ruin C. sell D. destroy | |
| | Co. | 0 10 |
| | | Question ID : 1841223158 |
| Q.14 | Read the sentence and select the homophone which will correctly c sentence. | omplete the |
| | Fools rush in angels fear to Tread. | |
| Ans | ✓ A. Where | |
| | X B. Were | |
| | C. Weir | |
| | X D. Wire | |
| | | Question ID : 1841223157 |
| | | QuestiUll ID . 1041223137 |
| | | |

Q.15 Select the most appropriate meaning which best expresses the meaning of the given Idiom.

I have HIT UPON a good plan to get rid of him.

Ans

A. Found

X B. Created

X C. Curated

X D. Lost

Question ID: 1841223159

Comprehension:

Read the following passage and answer the questions given below.

FEEDING THE PRETERM BABY

Studies conducted at Sooriya Hospital, Chennai in 2017 on premature babies showed that swabbing the insides of cheeks with colostrum several times a day helps to bring down the incidence of hospital-acquired infections and speeds up overall recovery.

The preterm babies are best fed with unprocessed human milk obtained from their mothers. It has been shown that milk of mothers delivering prematurely has higher protein chloride and sodium content which is suitable for the nutritional needs of low-birth-weight babies. Antimicrobial property of breast milk is of great importance to the preterm baby and the incidence of infectious sepsis and meningitis are greatly reduced. If the baby does not gain weight satisfactorily with breast milk alone, dietary supplements like vegetable oils (corn oil, groundnut oil) may be used which increase the caloric value without increasing its volume. The advantages of feeding breast milk to preterm babies are availability of easily digestible protein and fat and feeding tolerance. Factors in human milk may stimulate GI growth, motility and maturation. Enzymes naturally present in human milk help in the absorption and utilization of nutrients.

The decision whether the baby is to be breast fed or through a gavage is guided by maturity, birth weight and general condition of the baby. The infant can be started with expressed mother's milk. Bolus, intermittent, naso-gastric tube feeds every 2 hours in small babies and every 3 hours in larger babies can be done. Initial volume used will be as low as 1 - 2 ml for feeding infants of 1000g or less or as much as 4 - 5 ml per feed for an infant of 1500 g. If oral feed is tolerated, then increase the volume of feeding by 1ml/day in smaller infants or by as much as 3 - 5 ml in the larger infants. Feeding must be reduced, withheld or even omitted entirely when there is gastric retention or abdominal distention. Ultimately the volume of intake should be 150 – 170 ml/kg/day and calorie value 110 -120 ml/kg/day. If the rate of weight gain is low, the calorie intake is increased by adding vegetable oil (coconut oil or peanut oil, 0.5 ml every other meal). Most infants begin to gain more rapidly as their postnatal weight approaches 1400-1500 g and their caloric intake increases.

SubQuestion No: 16

Q.16 Fill in the blanks with correct word (from the passage) choosing from the options given below.

Enzymes naturally prese<mark>nt in human milk hel</mark>p in the _____ and ____ of nutrients.

Anc

X A. Reduction and Retention

X B. Sodium and Protein

C. Absorption and Utilisation

X D. Sepsis and Meningitis

Read the following passage and answer the questions given below.

FEEDING THE PRETERM BABY

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SubQuestion No: 17

Q.17 Which quality of the breast milk reduces the higher chances of infectious sepsis and meningitis in the preterm babies?

dydince Engly

Ans X A. Antibacterial

X B. Hypoglycaemic

X C. Anti-inflammatory

D. Antimicrobial

Read the following passage and answer the questions given below.

FEEDING THE PRETERM BABY

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SubQuestion No: 18

Q.18 What does the caloric value of infants range from?

Ans

X A. 130-160 ml/kg/day

X B. 150-170 ml/kg/day

X C. 1400-1500 g

D. 110-120 ml/kg/day

Read the following passage and answer the questions given below.

FEEDING THE PRETERM BABY

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SubQuestion No: 19

Q.19 Mother's milk contains higher content of _______

Δns

X A. Calcium Chloride and Zinc

X B. Magnesium Chloride and Sodium

C. Protein Chloride and Sodium

X D. Sodium Chloride and Nickel

Read the following passage and answer the questions given below.

FEEDING THE PRETERM BARY

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SubQuestion No: 20

Q.20 Select the appropriate meaning of the word.
MOTILITY

Ans 🦷

X A. Drift

X B. Lethal

C. Portability

X D. Morse

Question ID: 1841223171

Section: General Hindi

Q.1 'कटु सत्य कहना' के अर्थ में निम्न में से किस मुहावरे का प्रयोग होता है-

Ans

💢 A. खरी-खोटी सुनाना

🗶 в. उठा न रखना

\chi c. एक आँख से देखना

🥒 D. खरी-खरी सुनाना

Question ID: 1841223180

Q.2 'अनल' पर्याय है-

Ans

🟋 A. जल का

🥓 B. अग्नि का

🗶 C. बादल का

🗶 D. वायु का

| | 'इतनी गर्मी पड़े तो सारे ग्लेशियर ही पिघल जाएँ।' वाक्य उदाहरण है- | |
|--------|---|--------------------------|
| Ans | 🗶 A. सामान्य भविष्य का | |
| | 🗡 B. संभाव्य भविष्य का | |
| | ✓ C. हेतुहेतुमद्भविष्य का | |
| | 🗶 D. संभाव्य वर्तमान का | |
| | | Question ID : 1841223184 |
| | | Question 15 . 1041220104 |
| Q.4 | 'श्रावण' में है- | |
| Ans | 🗶 A. दीर्घ संधि | |
| | 🗶 B. यण् संधि | |
| | ✓ C. अयादि संधि | |
| | 🗶 D. गुण संधि | |
| | | |
| | | Question ID : 1841223175 |
| Q.5 | 'चुपड़ी और दो-दो' लोकोक्ति का अर्थ है- | |
| Ans | 🗙 A. थोड़ा-थोड़ा जमा करके अमीर हो जाओगे। | 9 |
| | 🗙 B. थोड़ी वस्तु से बड़ा काम नहीं हो सकता। | G GSeS |
| | X C. किसी को कष्ट देकर मौज करना। | |
| | ✓ D. उत्तम वस्तु और वह भी इतनी ज़्यादा। | |
| | B. St. 1 and and an extended | |
| | | Question ID : 1841223182 |
| 0.6 | 'अकरम ने रोटी खायी।' वाक्य में कारक है- | |
| Ans | X A. अपादान कारक | Celins |
| 7 1110 |) B. कर्ता कारक | |
| | X C. सम्बंध कारक | 0 |
| | X D. करण कारक | 70 |
| | D. करण कारक | |
| | | Question ID : 1841223172 |
| | | |
| | अमावस्या का विलोम है- ※ A. कुह् ✓ B. पूर्णिमा ※ C. प्रकाश ※ D. चाँदनी | |
| Ans | X A. कुहू | |
| | ✓ B. पूर्णिमा | |
| | 🗶 C. प्रकाश | |
| | 🗶 D. चाँ <mark>द</mark> नी | |
| | 100 | Question ID : 1841223178 |
| | | Question ID . 1041225170 |
| Q.8 | 'लता मंगेशकर गीत गा <mark>रही</mark> हैं।' वाक् <mark>य</mark> उदाहरण है- | |
| Ans | 🗙 A. संदिग्ध वर्तमान का | |
| | 🗙 в. सामान्य वर्तमान का | |
| | 🗶 C. सम्भाव्य वर्तमान का | |
| | 🧪 D. तात्कालिक वर्तमान का | |
| | | |
| | | Question ID : 1841223183 |

| Q.9 | निम्न शब्दों में से गुणवाचक विशेषण का उदाहरण नहीं है- | |
|-------|--|--------------------------|
| Ans | ৵ A. दूना | |
| | ※ B. दुष्ट | |
| | 🗶 C. सतही | |
| | 🗶 D. सुडौल | |
| | | 0 10 |
| | | Question ID : 1841223174 |
| Q.10 | निम्न में से तुलनावाचक क्रियाविशेषण शब्द है- | |
| Ans | - | |
| | ৵ B. उतना | |
| | 🗙 C. किंचित | |
| | 🗙 D. यथाक्रम | |
| | | |
| | | Question ID : 1841223173 |
| Q 11 | यर्तोचित शब्द ये विकासभाव श्रों | |
| Q.11 | सर्वोचित शब्द से रिक्त स्थान भरें- सेठ जी ने करोड़ों रुपये का किया। | 6 |
| Ans | ✔ A. अर्जन | 5 , 5505 |
| | 🗙 B. अर्जुन | 65 |
| | 🗶 C. अंजन | 100 |
| | 🗶 D. अर्चन | |
| | | |
| | | Question ID : 1841223186 |
| Q.12 | निम्न में से गंगा का पर्यायवाची शब्द है- | |
| Ans | | |
| | ✓ B. सुरसरित | C. C. |
| | X C. आगार | |
| | X D. €FI | |
| | | |
| | | Question ID : 1841223177 |
| 0.12 | निम्न में से कौन-सा विलोम युग्म सुमेलित नहीं है- ★ A. आय - व्यय ★ B. अवनत – उन्नत ◆ C. अथ - प्रारम्भ ★ D. आशा – निराशा | |
| Ans | 🗡 A. आय - व्यय | |
| 71110 | X B. अवनत – उन्नत | |
| | ✓ C. अथ - प्रारम्भ | |
| | 🗙 D. आशा – निराशा | |
| | 🗡 छ. जासा – गरासा | |
| | | Question ID : 1841223179 |
| | | |
| | 'चापलूसी करने' के अर्थ में निम्न में से किस मुहावरे का प्रयोग होगा- | |
| Ans | | |
| | ✓ B. जूते चाटना | |
| | 🗶 C. कान भरना | |
| | 💢 D. ज़मीन आसमान एक करना | |
| | | Question ID : 1841223181 |
| | | |

Q.15 वाक्य विन्यास की दृष्टि से शुद्ध वाक्य है-

Ans

🧪 A. अयोध्या के राजा दशरथ के पुत्र राम ने रावण को मारा।

🗶 B. रावण को मारा अयोध्या के राजा दशरथ के पुत्र राम ने।

🗶 C. राम अयोध्या के राजा दशरथ के पुत्र ने रावण को मारा।

🗶 D. दशरथ अयोध्या के राजा के पुत्र राम ने रावण को मारा।

Question ID: 1841223185

Comprehension:

दिए गए गद्यांश के आधार पर प्रश्न के उत्तर दीजिए।

हिंदी क्षेत्र में पुनर्जागरण की विंगारी औपनिवेशिक शोषण और दमन के प्रति असंतोष से फूटी, जिसका प्रतिफलन 1857 का औपनिवेशिक शासन से विद्रोह था। इतिहासकारों ने स्वीकार किया है कि यद्यपि इस विद्रोह के ज़िहर नेता ब्रिटिश शासन से असंतुष्ट भारतीय सामंत थे, पर उन्हें किसानों, सैनिकों, साधु-संतों और मुल्ला-मौलवियों का प्रत्यक्ष — अप्रत्यक्ष दोनों प्रकार का समर्थन प्राप्त था। यह विद्रोह अमानुषिक निर्दयता के साथ कुचल दिया गया, पर उसकी चिंगारी दमन की राख के नीचे बची रह गयी। इस राजनीतिक विद्रोह के साथ ही बंगाल का सामाजिक पुनर्जागरण हिंदी क्षेत्र में पहुँचा। बंगाल नवजागरण के एक प्रमुख नेता केशवचंद्र सेन ने पंजाब को और आर्य समाज के संस्थापक स्वामी दयानंद सरस्वती ने हिंदी क्षेत्र को सामाजिक जागरण-आंदोलन के किए चुना। ठीक इसी समय सर सैयद अहमद और अब्दुल्ला साहब आदि ने मुस्लिम समाज में 'नयी रौशनी' फैलाने का आंदोलन शुरू किया। दुर्भाग्य की बात यह हुई कि अंग्रेज़ हिंदुओं-मुसलमानों की उस एकता को, जो 1857 के विद्रोह के समय पैदा हुई थी, अपनी कूटनीतिक चालों से भंग करने में सफल हो गये। 1885 में जब इण्डियन नेशनल कांग्रेस की स्थापना हुई, तब तक हिंदू और मुस्लिम समाज की फाँक चिंता जनक रूप ले चुकी थी। यह हिंदी-उर्दू क्षेत्र की सबसे दुर्भाग्यपूर्ण नियति थी।

SubQuestion No: 16

Q.16 हिंदी-उर्दू क्षेत्र के लिए सबसे दुर्भाग्यपूर्ण नियति निम्न में से थी।

Ans

✓ A. हिंदू-मुस्लिम एकता को तोड़ने में अंग्रेज़ों को सफलता प्राप्त होना

X B. 1857 के विद्रोह के पश्चात् सरकारी दमन

🗶 C. सर सैयद अहमद द्वारा मुस्लिम समाज के उत्थान के लिए कार्य

💢 D. सामाजिक पुनरुत्थान आंदोलन

Question ID: 1841223191

Comprehension:

दिए गए गद्यांश के आधार पर प्रश्न के उत्तर दीजिए।

हिंदी क्षेत्र में पुनर्जागरण की चिंगारी औपनिवेशिक शोषण और दमन के प्रति असंतोष से फूटी, जिसका प्रतिफलन 1857 का औपनिवेशिक शासन से विद्रोह था। इतिहासकारों ने स्वीकार किया है कि यद्यपि इस विद्रोह के ज़ाहिर नेता ब्रिटिश शासन से असंतुष्ट भारतीय सामंत थे, पर उन्हें किसानों, सैनिकों, साधु-संतों और मुल्ला-मौलवियों का प्रत्यक्ष — अप्रत्यक्ष दोनों प्रकार का समर्थन प्राप्त था। यह विद्रोह अमानुषिक निर्दयता के साथ कुचल दिया गया, पर उसकी चिंगारी दमन की राख के नीचे बची रह गयी। इस राजनीतिक विद्रोह के साथ ही बंगाल का सामाजिक पुनर्जागरण हिंदी क्षेत्र में पहुँचा। बंगाल नवजागरण के एक प्रमुख नेता केशवचंद्र सेन ने पंजाब को और आर्य समाज के संस्थापक स्वामी दयानंद सरस्वती ने हिंदी क्षेत्र को सामाजिक जागरण-आंदोलन के किए चुना। ठीक इसी समय सर सैयद अहमद और अब्दुल्ला साहब आदि ने मुस्लिम समाज में 'नयी रौशनी' फैलाने का आंदोलन शुरू किया। दुर्भाग्य की बात यह हुई कि अंग्रेज़ हिंदुओं-मुसलमानों की उस एकता को, जो 1857 के विद्रोह के समय पैदा हुई थी, अपनी कूटनीतिक चालों से भंग करने में सफल हो गये। 1885 में जब इण्डियन नेशनल कांग्रेस की स्थापना हुई, तब तक हिंदू और मुस्लिम समाज की फाँक चिंता जनक रूप ले चुकी थी। यह हिंदी-उर्दू क्षेत्र की सबसे दुर्भाग्यपूर्ण नियति थी।

SubQuestion No: 17

Q.17 हिंदी क्षेत्र में पुनर्जागरण के उद्भव का निम्न में से क्या कारण था?

Ans

🗶 В. हिंदू-मुस्लिम एकता

🗶 C. इण्डियन नेशनल कांग्रेस की स्थापना

💢 D. 1857 का विद्रोह

दिए गए गद्यांश के आधार पर प्रश्न के उत्तर दीजिए।

हिंदी क्षेत्र में पुनर्जागरण की चिंगारी औपनिवेशिक शोषण और दमन के प्रति असंतोष से फूटी, जिसका प्रतिफलन 1857 का औपनिवेशिक शासन से विद्रोह था। इतिहासकारों ने स्वीकार किया है कि यद्यपि इस विद्रोह के ज़ाहिर नेता ब्रिटिश शासन से असंतुष्ट भारतीय सामंत थे, पर उन्हें किसानों, सैनिकों, साधु-संतों और मुल्ला-मौलवियों का प्रत्यक्ष — अप्रत्यक्ष दोनों प्रकार का समर्थन प्राप्त था। यह विद्रोह अमानुषिक निर्दयता के साथ कुचल दिया गया, पर उसकी चिंगारी दमन की राख के नीचे बची रह गयी। इस राजनीतिक विद्रोह के साथ ही बंगाल का सामाजिक पुनर्जागरण हिंदी क्षेत्र में पहुँचा। बंगाल नवजागरण के एक प्रमुख नेता केशवचंद्र सेन ने पंजाब को और आर्य समाज के संस्थापक स्वामी दयानंद सरस्वती ने हिंदी क्षेत्र को सामाजिक जागरण-आंदोलन के किए चुना। ठीक इसी समय सर सैयद अहमद और अब्दुल्ला साहब आदि ने मुस्लिम समाज में 'नयी रौशनी' फैलाने का आंदोलन शुरू किया। दुर्भाग्य की बात यह हुई कि अंग्रेज़ हिंदुओं-मुसलमानों की उस एकता को, जो 1857 के विद्रोह के समय पैदा हुई थी, अपनी कूटनीतिक चालों से भंग करने में सफल हो गये। 1885 में जब इण्डियन नेशनल कांग्रेस की स्थापना हुई, तब तक हिंदू और मुस्लिम समाज की फाँक चिंता जनक रूप ले चुकी थी। यह हिंदी-उर्दू क्षेत्र की सबसे दुर्भाग्यपूर्ण नियति थी।

SubQuestion No: 18

Q.18 इण्डियन नेशनल कांग्रेस की स्थापना कब हुई?

Ans

A. 1885

X B. 1957

X C. 1985

X D. 1857

Question ID: 1841223189

Comprehension:

दिए गए गद्यांश के आधार पर प्रश्न के उत्तर दीजिए।

हिंदी क्षेत्र में पुनर्जागरण की चिंगारी औपनिवेशिक शोषण और दमन के प्रति असंतोष से फूटी, जिसका प्रतिफलन 1857 का औपनिवेशिक शासन से विद्रोह था। इतिहासकारों ने स्वीकार किया है कि यद्यपि इस विद्रोह के ज़ाहिर नेता ब्रिटिश शासन से असंतुष्ट भारतीय सामंत थे, पर उन्हें किसानों, सैनिकों, साधु-संतों और मुल्ला-मौलवियों का प्रत्यक्ष — अप्रत्यक्ष दोनों प्रकार का समर्थन प्राप्त था। यह विद्रोह अमानुषिक निर्दयता के साथ कुचल दिया गया, पर उसकी चिंगारी दमन की राख के नीचे बची रह गयी। इस राजनीतिक विद्रोह के साथ ही बंगाल का सामाजिक पुनर्जागरण हिंदी क्षेत्र में पहुँचा। बंगाल नवजागरण के एक प्रमुख नेता केशवचंद्र सेन ने पंजाब को और आर्य समाज के संस्थापक स्वामी दयानंद सरस्वती ने हिंदी क्षेत्र को सामाजिक जागरण-आंदोलन के किए चुना। ठीक इसी समय सर सैयद अहमद और अब्दुल्ला साहब आदि ने मुस्लिम समाज में 'नयी रौशानी' फैलाने का आंदोलन शुरू किया। दुर्भाग्य की बात यह हुई कि अंग्रेज़ हिंदुओं-मुसलमानों की उस एकता को, जो 1857 के विद्रोह के समय पैदा हुई थी, अपनी कूटनीतिक चालों से भंग करने में सफल हो गये। 1885 में जब इण्डियन नेशनल कांग्रेस की स्थापना हुई, तब तक हिंदू और मुस्लिम समाज की फाँक चिंता जनक रूप ले चुकी थी। यह हिंदी-उर्दू क्षेत्र की सबसे दुर्भाग्यपूर्ण नियति थी।

SubQuestion No : 19

Q.19 निम्न में से कौन-सा शब्द युग्म अन्य से भिन्न है?

Ans

💢 A. जागरण - आंदोलन

🗙 В. हिंदू - मुसलमान

🥒 C. प्रत्यक्ष - अप्रत्यक्ष

\chi D. मुल्ला - मौलवी

दिए गए गद्यांश के आधार पर प्रश्न के उत्तर दीजिए।

हिंदी क्षेत्र में पुनर्जागरण की चिंगारी औपनिवेशिक शोषण और दमन के प्रति असंतोष से फूटी, जिसका प्रतिफलन 1857 का औपनिवेशिक शासन से विद्रोह था। इतिहासकारों ने स्वीकार किया है कि यद्यपि इस विद्रोह के ज़ाहिर नेता ब्रिटिश शासन से असंतुष्ट भारतीय सामंत थे, पर उन्हें किसानों, सैनिकों, साधु-संतों और मुल्ला-मौलवियों का प्रत्यक्ष — अप्रत्यक्ष दोनों प्रकार का समर्थन प्राप्त था। यह विद्रोह अमानुषिक निर्दयता के साथ कुचल दिया गया, पर उसकी चिंगारी दमन की राख के नीचे बची रह गयी। इस राजनीतिक विद्रोह के साथ ही बंगाल का सामाजिक पुनर्जागरण हिंदी क्षेत्र में पहुँचा। बंगाल नवजागरण के एक प्रमुख नेता केशवचंद्र सेन ने पंजाब को और आर्य समाज के संस्थापक स्वामी दयानंद सरस्वती ने हिंदी क्षेत्र को सामाजिक जागरण-आंदोलन के किए चुना। ठीक इसी समय सर सैयद अहमद और अब्दुल्ला साहब आदि ने मुस्लिम समाज में 'नयी रौशनी' फैलाने का आंदोलन शुरू किया। दुर्भाग्य की बात यह हुई कि अंग्रेज़ हिंदुओं-मुसलमानों की उस एकता को, जो 1857 के विद्रोह के समय पैदा हुई थी, अपनी कूटनीतिक चालों से भंग करने में सफल हो गये। 1885 में जब इण्डियन नेशनल कांग्रेस की स्थापना हुई, तब तक हिंदू और मुस्लिम समाज की फाँक चिंता जनक रूप ले चुकी थी। यह हिंदी-उर्दू क्षेत्र की सबसे दुर्भाग्यपूर्ण नियति थी।

SubQuestion No: 20

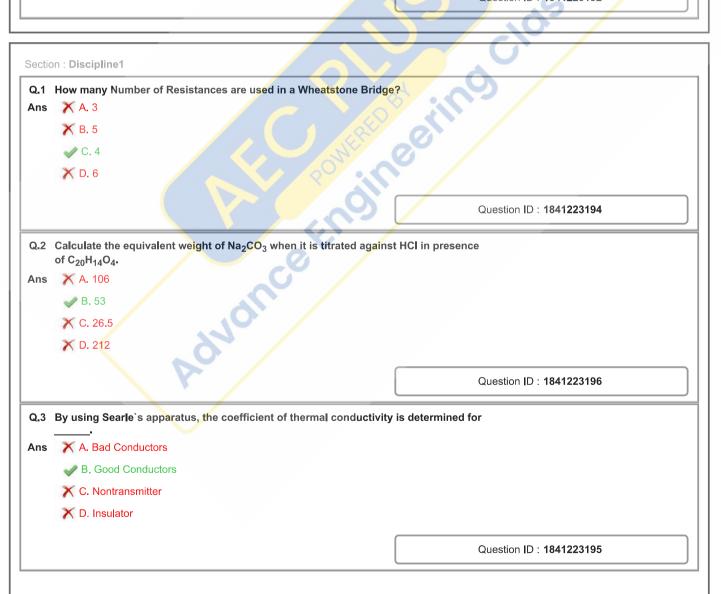
Q.20 हिंदी क्षेत्र में पुनर्जागरण के संदर्भ में असत्य है-

Ans \chi A. सर सैयद और अब्दुल्ला साहब जैसे सुधारकों ने मुस्लिम समाज में नयी रौशनी फैलाई।

🗶 B. पुनर्जागरण का प्रतिफलन 1857 के विद्रोह के रूप में हुआ।

✓ C. केशवचंद्र सेन ने बंगाल को और स्वामी दयानंद सरस्वती ने पंजाब को सामाजिक जागरण-आंदोलन के लिए चुना।

💢 D. हिंदी क्षेत्र में पुनर्जागरण बंगाल के सामाजिक पुनर्जागरण का ही प्रसार था।



| Q.4 | According to Varignon's Theorem , what is r_1 in the below | w shown figure. |
|------------|--|---|
| Ans | A. Perpendicular distance between F ₁ and O'. **Note: The properties of the proper | |
| | TO A THE RESIDENCE OF THE PARTY | |
| | | Question ID : 1841223202 |
| Q.5 | Ohm's law is not applicable for non-metallic conductor like | 5 |
| Ans | X A. Silver X B. Copper | 60- |
| | C. Silicon carbide | 55 |
| | X D. Tin | |
| | | Question ID : 1841223209 |
| | | QUESTION ID: 1841223209 |
| | | GOSTON IS . IOTIEDED |
| Q.6 | Thevenin's Theorem states that, any linear active Double terminal novoltage and resistance sources can be replaced by a | |
| | voltage and resistance sources can be replaced by aVoltage with resistance. | etwork containing |
| Q.6 Ans | voltage and resistance sources can be replaced by aVoltage with resistance. X A. Single, Parallel, Single | etwork containing |
| | voltage and resistance sources can be replaced by aVoltage with resistance. X A. Single, Parallel, Single X B. Single, Parallel, Two | etwork containing |
| | voltage and resistance sources can be replaced by aVoltage with resistance. X A. Single, Parallel, Single | etwork containing |
| | voltage and resistance sources can be replaced by aVoltage with resistance. X A. Single, Parallel, Single X B. Single, Parallel, Two C. Single, Series, Single | etwork containing source in |
| | voltage and resistance sources can be replaced by aVoltage with resistance. X A. Single, Parallel, Single X B. Single, Parallel, Two C. Single, Series, Single | etwork containing |
| Ans | voltage and resistance sources can be replaced by a | Question ID : 1841223210 Detween two les of charges and |
| Ans | voltage and resistance sources can be replaced by a | Question ID : 1841223210 Detween two les of charges and |
| Ans | voltage and resistance sources can be replaced by a | Question ID : 1841223210 Detween two les of charges and |
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| Ans | voltage and resistance sources can be replaced by a | Question ID : 1841223210 Detween two les of charges and is stated in |
| Ans | voltage and resistance sources can be replaced by a | Question ID : 1841223210 Detween two les of charges and |

| | The centre of gravity of a semicircle of radius r is located at a distance | or from the axis passing through the |
|-------------|--|--|
| Ans | diameter. | |
| | \times A. $\frac{4r}{\pi}$ \times B. $\frac{2r}{3\pi}$ | |
| | π | |
| | \times B. $\frac{2r}{r}$ | |
| | 3π | |
| | 4r | |
| | \sqrt{C} . $\frac{3\pi}{3\pi}$ | |
| | \checkmark C. $\frac{4r}{3\pi}$ \checkmark D. $\frac{r}{3\pi}$ | |
| | \times D. $\frac{1}{3\pi}$ | |
| | (000,000) | |
| | | Question ID : 1841223203 |
| Q. 9 | Among the two series given : Series 1 : 1, 2, 4, 8,; P th term of both series are equal. Identify the value of | and Series 2 : 256, 128,; the P?" |
| Ans | X A. 3 | |
| | X B. 4 | 6 |
| | X C. 6 | |
| | ✓ D. 5 | -69 |
| | | |
| | | Question ID : 1841223198 |
| | Y D. Major of the element | |
| | ✗ B. Major of the element✗ C. Matrices of the element✓ D. Minor of the element | NERED & CHILL |
| 1 | C. Matrices of the element D. Minor of the element | Question ID : 1841223199 |
| Q.11 | C. Matrices of the element D. Minor of the element | Question ID : 1841223199 |
| | C. Matrices of the element D. Minor of the element | Question ID : 1841223199 |
| | C. Matrices of the element D. Minor of the element | Question ID : 1841223199 |
| | C. Matrices of the element D. Minor of the element | Question ID : 1841223199 |
| Q.11 Ans | C. Matrices of the element D. Minor of the element | Question ID : 1841223199 |
| | C. Matrices of the element D. Minor of the element 1 Watt = Joule / second A. 10 B. 1 C. 100 | Question ID : 1841223199 Question ID : 1841223207 |

Q.12 According to theorem of parallel axis, which of the following equation is correct

(Where I AB = Moment of inertia of the area about an axis AB, parallel to the centroidal axis.

I G = Moment of Inertia of the area about the centroidal axis passing through centriodG

a = Area of the section, and

h = Prependicular distance between centrodal axis and the axis passing through AB.)

Ans

- X A. $I_G = I_{AB} \times ah^2$
- \times B. $I_{AB} = I_G ah^2$
- \checkmark C. $I_{AB} = I_G + ah^2$
- \times D. $I_G = I_{AB} + ah^2$

Question ID: 1841223204

Q.13 _____ states, "Every body continues in a state of rest or uniform motion in a straight line unless it is compelled to change that state by some external force acting on it."

Ans

- X A. Newton's Second Law of Motion
- X B. Newton's Law of Gravitation
- C. Newton's First Law of Motion
- X D. Newton's Third Law of Motion

Question ID: 1841223205

Q.14 The velocity ratio of two pulleys connected by an open or crossed belt is:

Ans

- X A. directly proportional to their diameters
- B. inversely proportional to their diameters
- X C. inversely proportional to the square of their diameters
- X D. directly proportional to the square of their diameters

Question ID : 1841223212

Q.15 For the motion of a body of mass m along a circular path of radius r, with a uniform speed v, the expression for centrifugal force is given by:

Ans

$$\times$$
 A. $\frac{mV}{r}$

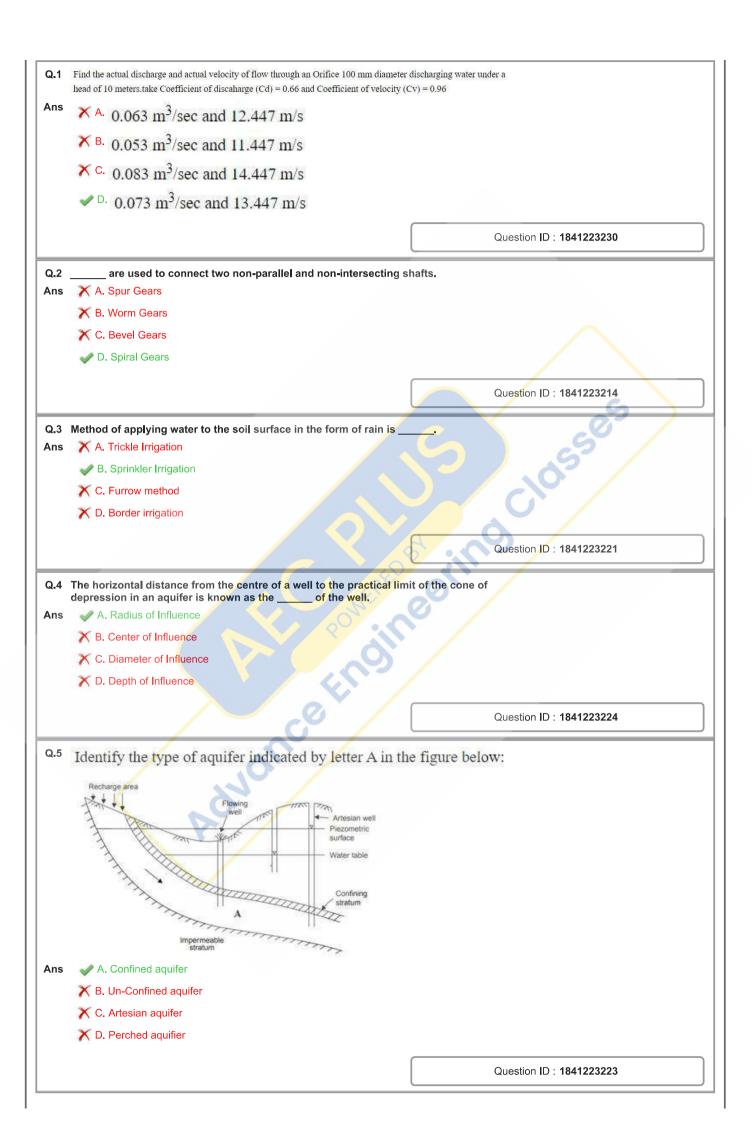
$$\nearrow$$
 B. $\frac{mV^2}{r}$

$$\times$$
 c. $\frac{m^2V}{r}$

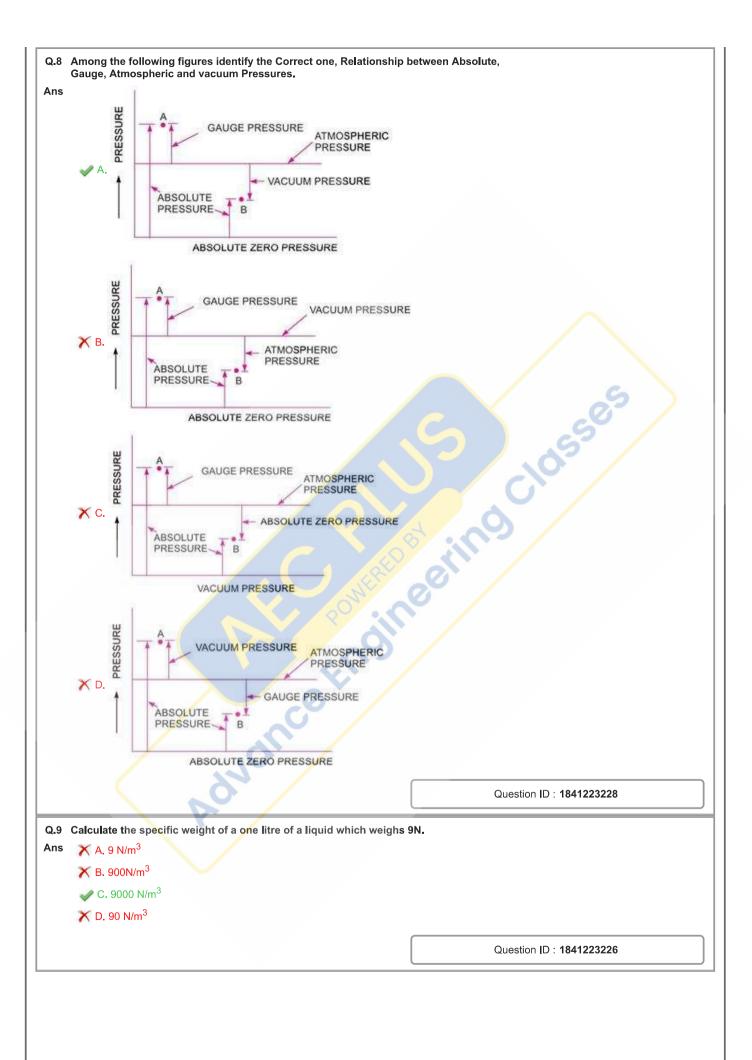
$$\times$$
 D. $\frac{mV^2}{r^2}$

| Q.16 | .16 A body of weight 200 Newtons is placed on a rough horizontal plane. Determine the co-efficient of friction if a horizontal force of 120 Newtons just causes the body to slide over the horizontal plane. | |
|------|--|--------------------------|
| Ans | | |
| | ★ B. 1.2 | |
| | X C. 1.6 | |
| | X D. 1.0 | |
| | | |
| | | Question ID: 1841223208 |
| Q.17 | The rate of discharge of seepage water through a porous med space perpendicular to the direction of flow is known as | |
| Ans | X A. Spectral Velocity | |
| | X B. Critical Velocity | |
| | X C. Discharge Velocity | |
| | ✓ D. Seepage Velocity | |
| | | |
| | | Question ID : 1841223211 |
| 0.18 | is determined by using the law of parallelogram of for | cos hotucon two forces |
| Q.18 | acting at a point in plane | ces, between two forces |
| Ans | X A. Displacement | 65 |
| | X B. Moment of Inertia | 10, |
| | X C. Load | |
| | ✓ D. Resultant Force | À / |
| | | |
| | | Question ID : 1841223201 |
| Q.19 | If the rows and columns of a matrix are interchanged, then it i | s called as |
| Ans | ✓ A. Transpose of a Matrix | 0 |
| | X B. Orthogonal Matrix | |
| | C. Skew Symmetric Matrix | |
| | X D. Triangular Matrix | |
| | | |
| | | Question ID : 1841223200 |
| | | |
| Q.20 | According to IS: 1680 – 1982, The concentration of total dissortant water should be for Boilers operating up to 2.0 MN/m ² | |
| Ans | X A. 4500 mg/l | |
| | ✓ B. 3500 mg/l | |
| | ★ C. 6500 mg/l | |
| | X D. 5500 mg/l | |
| | A B. Good High | |
| | | Question ID : 1841223197 |
| | | |

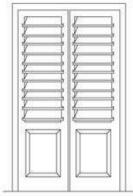
Section : Discipline2



| | When mixed with . Anhvdrou | us cement compounds react with each other to |
|------|-------------------------------------|---|
| | form hydrated compounds. | |
| Ans | ✓ A. Water | |
| | X B. Petrol | |
| | X C. Kersone | |
| | X D. Mercury | |
| | | |
| | | Question ID : 1841223232 |
| 0.7 | According to Pascals law. The inter | nsity of pressure for a fluid at rest is in all |
| G(:/ | directions. | isity of pressure for a fluid at rest is in all |
| Ans | X A. Zero | |
| | ✓ B. Equal | |
| | X C. Higher | |
| | X D. Lesser | |
| | | |
| | | Question ID : 1841223227 |
| | | 6 |
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| | Adv. | dince Etholine |



Q.10 Identify the door type shown in the below figure.



Ans X A. Flush Doors

X B. Ledged Doors

C. Louvered Doors

X D. Glazed Doors

Question ID : 1841223218

Q.11 Intensity of irrigation is defined as the percentage of CCA, which is proposed to be annually irrigated. What is meant by CCA in the above definition?

Ans X A. Crop Command Area

X B. Culturable Common Area

C. Culturable Command Area

X D. Crop Common Area

Question ID: 1841223222

Q.12 According to Indian standarads, Shallow foundations are laid normally to depth of

A no.

A. 3 meters

X B. 4.5 meters

X C. 7.5 meters

X D. 6 meters

Question ID: 1841223215

Q.13 What is the chezys formula for steady and uniform flow in rigid boundary open channels?

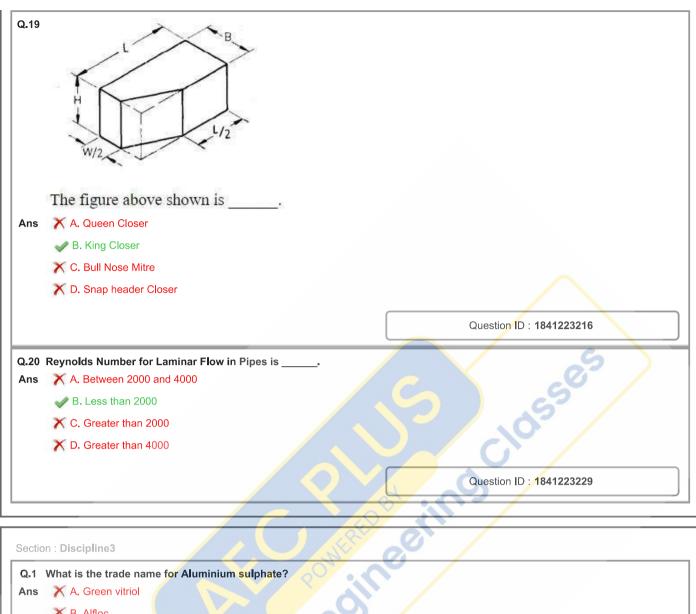
Ans

$$\times$$
 A $U = C \sqrt{RS}$

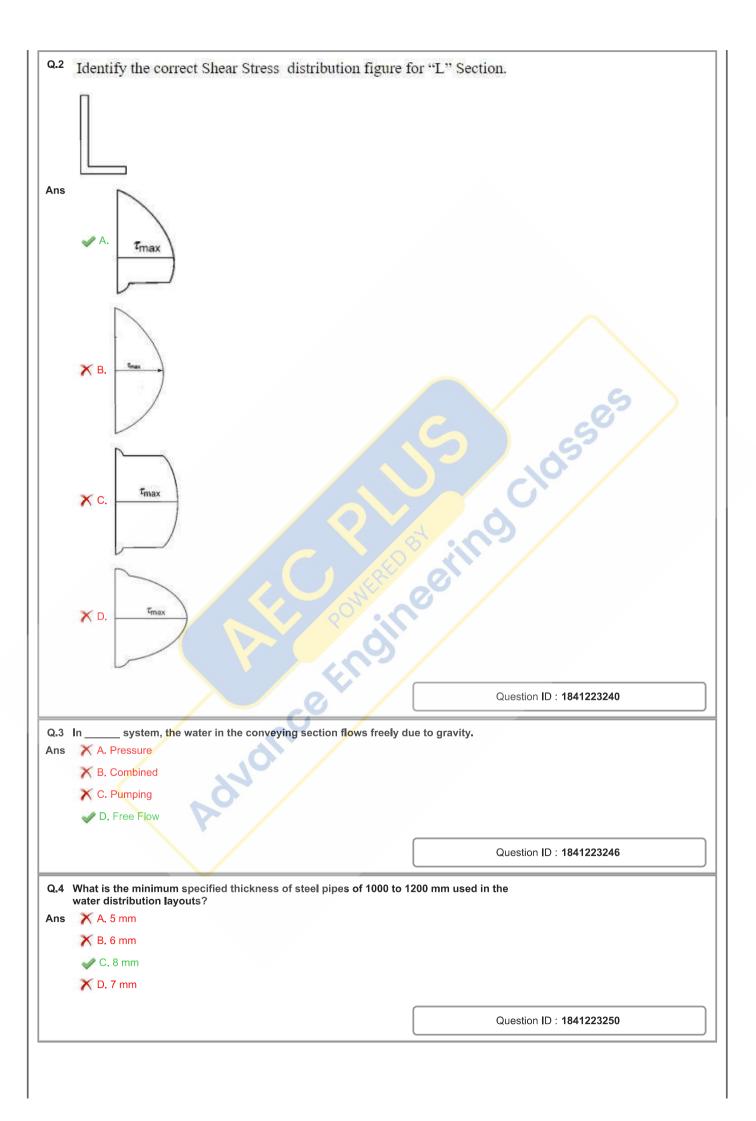
$$\times$$
 c. $\frac{U}{u_*} = 5.75 \log \left(\frac{u_*R}{v}\right) + 3.25$

$$\times$$
 D. $\frac{U}{u_*} = 5.75 \log (R/k_s) + 6.25$

| | longitudinal horizontal members parallel to the wall use | ed in scaffolding is called as: | |
|--------------|--|---|--|
| Ans | X A. Putlogs | | |
| | B. Stringers | | |
| | X C. Planks | | |
| | X D. Standards | | |
| | | Question ID : 1841223219 | |
| D.15 | The minimum width of tread without nosing shall be | for residential buildings. | |
| Ans | X A. 150 mm | | |
| | X B. 350 mm | | |
| | ✓ C. 250 mm | | |
| | X D. 450 mm | | |
| | | | |
| | | Question ID : 1841223220 | |
| | | | |
| | Usual allowance for camber in the intrados in the flat at | rch is | |
| Ans | X A. 1 / 50 of the span | | |
| | B. 1 / 100 of the span | 505 | |
| | X C. 1 / 200 of the span | 65 | |
| | X D. 1 / 150 of the span | 10, | |
| | | Question ID : 1841223217 | |
| | | QUESTION ID . TO TIEDETT | |
| 2.17 | Specifications for vicat apparatus used to find of intial | setting time of cement is | |
| Ans | ✓ A. IS 5513 (1996) | | |
| | X B. IS 5514 (1996) | | |
| | X C. IS 5512 (1996) | 20 | |
| | X D. IS 5511 (1996) | | |
| | B. 10 3311 (1330) | | |
| | | Question ID : 1841223231 | |
| | | | |
| Q.1 8 | are the devices used to engage or disengage two rotati and when desired. | ng ma <mark>ch</mark> ine components as | |
| | and when desired, | | |
| Ans | A. Clutches | | |
| Ans | A. Clutches **B. Brake | | |
| Ans | ✓ A. Clutches✗ B. Brake✗ C. Shaft | | |
| Ans | A. Clutches X B. Brake X C. Shaft X D. Crank | | |
| Ans | X B. Brake | | |



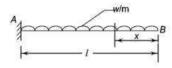




| Q.5 | Unit for Torque is | |
|------|---|---------------------------------|
| Ans | \checkmark A. $N-m$ | |
| | × B. N/m | |
| | \times c. $N-m^2$ | |
| | × D. N/m ² | |
| | | |
| | | Question ID : 1841223241 |
| | COD stands for: | |
| Ans | X A. Chlorine Oxygen Demand | |
| | X B. Calcium Oxygen Demand | |
| | C. Clean Oxygen Demand | |
| | ✓ D. Chemical Oxygen Demand | |
| | | Question ID : 1841223252 |
| | | |
| Q.7 | According to IS: 2386 (Part I) – 1963, to conduct Sieve analysis, the of the sample of 20 mm size aggregate to be taken is: | e minimum weight |
| Ans | ★ A. 5 kg | C C C |
| | ★ B. 10 kg | 55 |
| | X C. 1 kg | 10 |
| | ✓ D. 25 kg | () / |
| | | Question ID : 1841223233 |
| | | Question ID . 1641223233 |
| Q.8 | Among the following which is NOT a out put device. | |
| Ans | X A. Printer | |
| | X B. Plotter | |
| | X C. Monitor | |
| | ✓ D. Key board | |
| | | Question ID : 1841223244 |
| Q.9 | An admixture which delays the setting of cement paste is | |
| Ans | An admixture which delays the setting of cement paste is X A. Accelerator | |
| | ✓ B. Retarder | |
| | C. Water Reducing Admixture | |
| | X D. Air-Entraining Admixtures | |
| | | |
| | | Question ID : 1841223237 |
| Q.10 | As per Indian standards 10262 - 2009, maximum water Content requ concrete with 10 mm nominal maximum size aggregate is | ired to prepare |
| Ans | ✓ A. 208 kgs/m ³ | |
| | | |
| | × B. 186 kgs/m ³ | |
| | × c. 165 kgs/m ³ | |
| | ➤ D. 224 kgs/m ³ | |
| | | Question ID : 1841223234 |
| | | 23333715 . 131122247 |

| Q.11 | According to CPHEEO, to avoid erosion due to sand and on the sewer, the maximum velocity should not exceed | |
|------|--|---|
| Ans | ✓ A. 3.0 m/S | |
| | ★ B. 4.5 m/S | |
| | X C. 6.0 m/S | |
| | X D. 1.5 m/S | |
| | | |
| | | Question ID : 1841223251 |
| Q.12 | is used for delay in the setting time of concrete. | |
| Ans | X A. Air-Entraining Admixtures | |
| | X B. Accelerator | |
| | X C. Water Reducing Admixture | |
| | ✓ D. Retarder | |
| | | |
| | | Question ID : 1841223235 |
| 0.13 | Ratio of Lateral strain to longitudinal strain is | |
| Ans | X A. Volumetric Strain | |
| | X B. Slenderness Ratio | |
| | X C. Radius of Gyration | 5 35505 |
| | D. Poisson's Ratio | |
| | D. FOISSOITS Ratio | |
| | | Question ID : 1841223238 |
| | | |
| Q.14 | The treatment by which the disease producing bacteria an | nd oth <mark>er micro-</mark> organisms |
| Ans | present in water are killed is known as A. Sedimentation | |
| | ✓ B. Disinfection | |
| | C. Water Softening | |
| | | |
| | X D. Filtrartion | 0 |
| | | Question ID : 1841223249 |
| | | |
| Q.15 | The quantity of water required to be stored in the reservoi | r for equalising fluctuating |
| Anc | demand against constant supply is known as: A. The Fire Storage | |
| Ans | | |
| | B. The Balancing Storage | |
| | C. The Breakdown Storage | |
| | X D. The Total Reservoir Storage | |
| | • | Question ID : 1841223245 |
| | | |

Q.16 For the below given figure, find out the Shear Force and Bending Moment at X.



- Ans \times A. wx^2 , $-wx^2/2$
 - \times B. wx², -wx/2
 - × c. wx, -wx/2
 - ✓ D. wx, -wx²/2

Question ID: 1841223239

Q.17 pH value for drinking water is: _____

- **Ans** X A. 4.5 to 6.5
 - X B. 8.5 to 10.5
 - X C. 10.5 to 12.5
 - D. 6.5 to 8.5

Question ID: 1841223247

Q.18 _ shape of aggregate gives good workability.

Ans

- A. Rounded
 - X B. Angular
 - X C. Flaky
 - X D. Elongated

Question ID: 1841223236

Q.19 As per Euler's theory on columns, the Critical Load for Columns with Hinged Ends is

Ans

$$\times$$
 A. $P_{\rm cr} = \frac{2\pi^2 EI}{I^2}$

$$\times$$
 c. $P_{\rm cr} = \frac{\pi^2 EI}{4l^2}$

$$P_{\rm cr} = \frac{\pi^2 EI}{I^2}$$

Question ID: 1841223242

Q.20 Among the following, which method is "NOT" used for anlaysing Truss.

Ans X A. Method of Sections

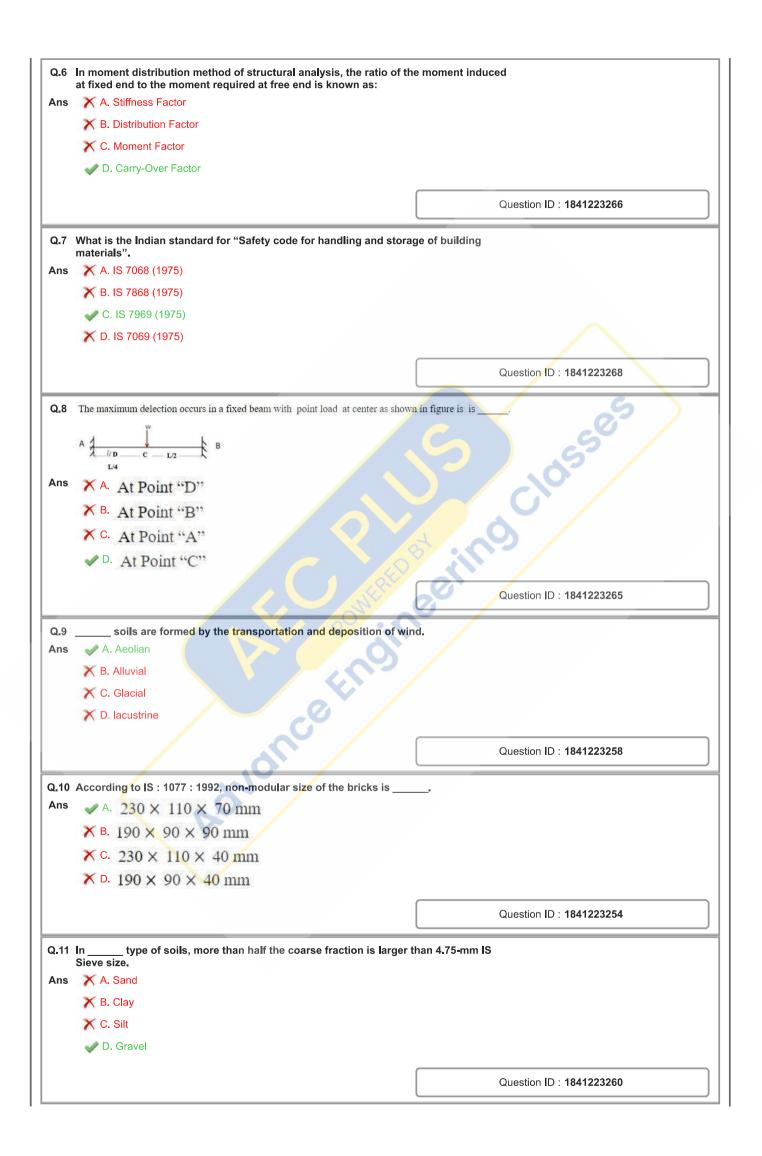
X B. Method of Joints

C. Macaulay`s Method

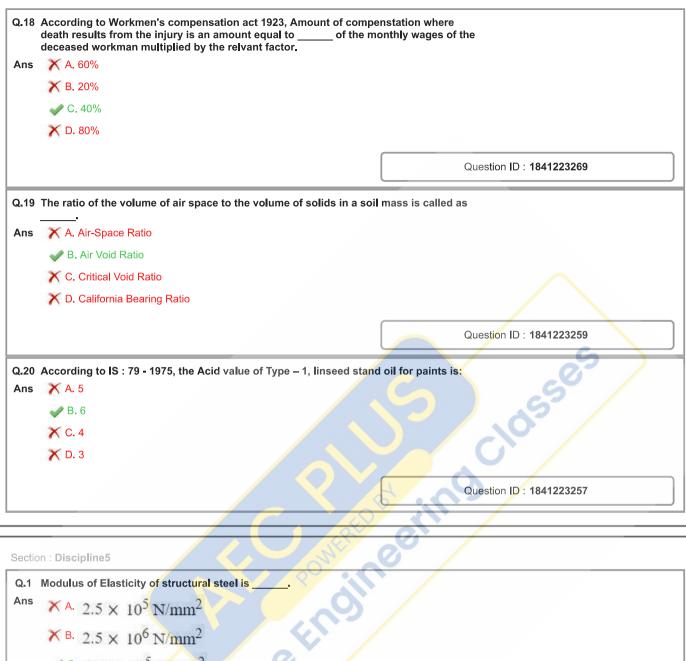
X D. Graphical Method

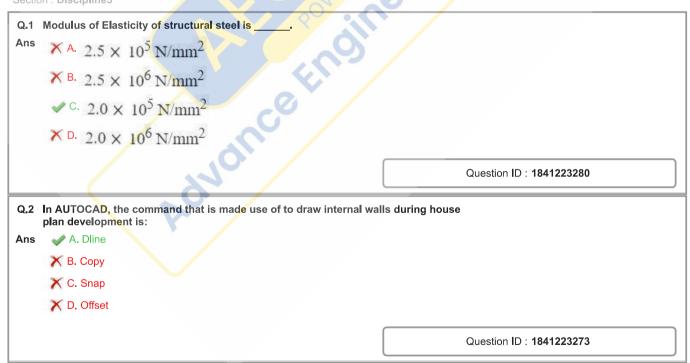
Question ID: 1841223243

| Section | on : Discipline4 | | |
|---------|--|--|--|
| Q.1 | Q.1 encompass the personal and corporate standards of behavior expected by professionals. | | |
| Ans | X A. General Ethics | | |
| | X B. Punctual Ethics | | |
| | X C. Global Ethics | | |
| | ✓ D. Professional Ethics | | |
| | | 0 11 12 12 12 12 12 12 12 12 12 12 12 12 | |
| | | Question ID : 1841223271 | |
| Q.2 | A three-hinged arch has hinged supports at each abutment. The ext provided by both the abutments is | ernal restraint | |
| Ans | | | |
| | ✓ B. Four | | |
| | X C. Two | | |
| | X D. Three | | |
| | | 0 11 12 11 11 11 | |
| | | Question ID : 1841223267 | |
| Q.3 | In AUTOCAD, the commnad used to draw Parallellines or Curves is: | 29 | |
| Ans | X A. Copy | | |
| | X B. Fillet | , O | |
| | C. Offset | | |
| | X D. Paste | | |
| | | Question ID : 1841223272 | |
| | | | |
| Q.4 | is defined as a set of international standards on quality man quality assurance developed to help companies effectively docume system elements needed to maintain an efficient quality system. | | |
| Ans | X A. ISO 8000 | | |
| | ★ B. ISO 7000 | | |
| | X C. ISO 6000 | | |
| | ★ B. ISO 7000★ C. ISO 6000★ D. ISO 9000 | | |
| | | Question ID : 1841223270 | |
| | | | |
| Q.5 | According to the classification of building limes in IS 712: 1984, Ma lime used for finishing coat in plastering, white washing, etc. comes | | |
| _ | category. | | |
| Ans | X A. Class A | | |
| | X B. Class B X C. Class C | | |
| | D. Class D | | |
| | ₩ D. Olass D | | |
| | | Question ID : 1841223256 | |
| | | | |



| | As per IS: 2720 (Part XXX) – 1980, the vane in Vane shear test for the shear strength of cohesive soils shall consist of four blades each fix the adjacent blades. | |
|------|--|--------------------------|
| Ans | × A. 45° | |
| | × B. 30° | |
| | √ C. 90° | |
| | × D. 60° | |
| | 80 | |
| | | Question ID : 1841223262 |
| Q.13 | Among the different types of rocks given under options, identify the | igneous rock. |
| Ans | X A. Sand Sttone | |
| | ✓ B. Granite | |
| | X C. Lime Stone | |
| | X D. Slate | |
| | | Question ID : 1841223253 |
| | | |
| | Asper IS: 12269 – 2013, what is the Maximum Insoluble residue (as for Ordinary Portland Cement, 53 Grade? | percent by mass) |
| Ans | X A. 2.0 | |
| | B. 4.0 | O' |
| | X C. 6.0 | |
| | X D. 8.0 | |
| | | Question ID : 1841223255 |
| Q.15 | What type of frame it will be, if it has 3 joints and 4 members? | |
| Ans | A. Redundant Frame | |
| | X B. Deficient Frame | |
| | X C. Efficient Frame | |
| | X D. Perfect Frame | |
| | | Question ID : 1841223264 |
| | | |
| | A compiler translates a high-level program into a low-level program. | |
| Ans | A. Compiler | |
| | X B. Linkers | |
| | X C. Assembler X D. SQL | |
| | D. SQL | |
| | | Question ID : 1841223263 |
| Q.17 | The mechanism of one dimensional consolidation in soils was propo | osed by: |
| Ans | X A. Darcy | |
| | X B. Skempton | |
| | C. Terzaghi | |
| | X D. Taylor | |
| | 1 | Outstier ID : 4044200004 |
| | | Question ID : 1841223261 |





| Q.3 | What is the Imperfection factor for buckling class "A & B" | |
|-----|---|--------------------------|
| Ans | X A. 0.54 & 0.67 | |
| | X B. 0.32 & 0.45 | |
| | ✓ C. 0.21 & 0.34 | |
| | X D. 0.43 & 0.56 | |
| | | |
| | | Question ID : 1841223284 |
| Q.4 | The value of a proprty at the end of its utility period without dismar | ntling is known as: |
| Ans | X A. Book Value | |
| | | |
| | C. Market Value | |
| | X D. Scrap Value | |
| | 2. Solap value | |
| | | Question ID : 1841223291 |
| | | |
| Q.5 | According to IRC: 37 - 2001, total pavement thickness for cumulation a CBR value of 6% is | ive taffic of 2 msa |
| Ans | X A. 350 mm | (5) |
| | ⊘ B. 450 mm | 6 668 |
| | X C. 500 mm | 63 |
| | X D. 615 mm | |
| | B. STOTIMI | |
| | | Question ID : 1841223277 |
| | | |
| Q.6 | In the type of split switch, the tongue rail does not end at the switch, but extends further and is rigidly connected. | ne heel of the |
| Ans | ✓ A. Fixed Heel | |
| | X B. Undercut Switch | 0 |
| | X C. Loose Heel | |
| | X D. Overriding Switch | |
| | B. Overhaing owner | |
| | | Question ID : 1841223278 |
| | | |
| Q.7 | Find out the quantity of earth work excavation for foundation whos lengthis 20 m, width/depth ratio of the trench is 0.5 and depth is 1. | |
| Ans | X A 15 00 m ³ | |
| | ★ B. 12.00 m³ ✓ C. 10.00 m³ | |
| | ✓ C. 10.00 m ³ | |
| | X D. 13.00 m ³ | |
| | D. 15.00 III | |
| | | Question ID : 1841223287 |
| | | |
| Q.8 | What is the effective length of a prismatic compression member, we conditions are "Translation & Rotation are Restrained at One end a Free & Rotation is Restrained at the other end" | |
| Ans | X A. 2.0 L | |
| | ✓ B. 1.2 L | |
| | X C. 0.8 L | |
| | | |
| | X D. 1.0 L | |
| | X D. 1.0 L | |
| | ▼ D. 1.0 L | Question ID : 1841223283 |

| Q.9 | If the price of the steel is ₹7,850.00 per Ton used in RCC works. The cost of steel for 100 Quintal. | n what is the total |
|-------------|---|--------------------------|
| Ans | X A. ₹785.00 | |
| | X B. ₹7,85,000.00 | |
| | X C. ₹7,850.00 | |
| | ✓ D. ₹78,500.00 | |
| | | Question ID: 1841223290 |
| Q.10 Ans | For multiple riveted connections, a service bolt shall be provided in A. Third or Fourth | every hole. |
| | X B. Nineth or Tenth | |
| | C. Fifith or Sixth | |
| | X D. Seventh or Eighth | |
| | B. Governar or Eightin | |
| | | Question ID : 1841223281 |
| Q.11 | Roller bearings have been used in | |
| Ans | X A. Not Suitable for Both Steel and Concrete Bridges | |
| | X B. Only Concrete Bridges, Not in Steel Bridges | G G |
| | C. Both Steel and Concrete Bridges | 5 |
| | X D. Only Steel Bridges, Not in Concrete Bridges | -10 |
| | | |
| | | Question ID : 1841223279 |
| Ans | Walls of one brick thick and less shall each be measured separately A. Number B. Square Meter C. Cubic Meter D. Running Meter | |
| | filo). | Question ID : 1841223286 |
| Q.13 | According to Nagpur road plan, IRC has classified the Indian roads categories. | into |
| Ans | X A. 6 | |
| | ★ B. 3 | |
| | ∨ C. 5 | |
| | Categories.★ A. 6★ B. 3★ C. 5★ D. 7 | |
| | | Question ID : 1841223274 |
| Q.14 Ans | The Safe Stopping Sight Distance value recommended by IRC for 60 A. 80 meters B. 20 meters C. 40 meters D. 60 meters | km/h speed is: |
| | | Question ID : 1841223275 |

| ۱ns | of the cost of purchase. A. 907.20 | | |
|-----------|---|--|--|
| | X B. 917.20 | | |
| | X C. 920.30 | | |
| | X D. 900.70 | | |
| | D. 900.70 | | |
| | | Question ID: 1841223292 | |
| | | | |
| | Find the quantity of cement mortar of 1 : 6 required for 12 each of them having length = 7.80 meters and height = 1.2 | | |
| Ans | | | |
| | X B. 18.50 m ² | | |
| | X C. 20.50 ² | | |
| | \checkmark D. 19.50 m ² | | |
| | | Out For ID : 40 (4000000 | |
| | | Question ID : 1841223289 | |
| Q.17 | Number of Spheres as Abrasive charge to be used for Gra Angeles Abrasion Testing Machine is | ade - D Aggr <mark>egat</mark> es in Los | |
| Ans | ✓ A. 6 | 120 | |
| | X B. 8 | | |
| | ★ C. 11 | 0' | |
| | ★ D. 12 | | |
| | | | |
| | | Question ID : 1841223276 | |
| Q.18 | For preliminary sizing, the rupture strength of net section may be approximate | ely taken by using the below equation as | |
| | per IS: 800 - 2007, $T_{dn} = \alpha A_n f_u / \gamma_{m1}$ | | |
| | What is the "q" value for one or two holts along the length in the end connect | ion or equivalent we <mark>ld</mark> length. | |
| Ans | W 1 0 5 | | |
| | ★ B. 0.7 | | |
| | X C. 0.8 | | |
| | ✓ D. 0.6 | | |
| | | | |
| | | Question ID: 1841223282 | |
| | According to IS: 4701 – 1982, the the range of side slope | | |
| 4. | provided for unlined canals formed in black cotton soils in | | |
| Ans | X A. 1.5 : 1 to 3 : 1 | | |
| | ✓ B. 2.5 : 1 to 3.5 : 1 | | |
| | X C. 2:1 to 3:1 | | |
| | | | |
| | X D. 1.5 : 1 to 2.5 : 1 | | |
| | D. 1.5 : 1 to 2.5 : 1 | Question ID : 1841223288 | |

