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ICAR Assistant

**Previous Year Paper
29 July 2022 Shift 1
(English)**



Test Date	29/07/2022
Test Time	9:00 AM - 10:00 AM
Subject	Assistant

Section : General Intelligence and Reasoning

Q.1 Select the number from among the given options that can replace the question mark (?) in the following series.

4, 16, 9, ?, 29, 116

Ans 1. 36

2. 27

3. 45

4. 2

Question ID : 1841224206

Status : Answered

Chosen Option : 1

Q.2 Select the correct combination of mathematical signs that can sequentially replace the * signs and balance the given equation.

$(54 * 30) * 6 * 23 * 27$

Ans 1. $\times, +, \div, =$

2. $\div, +, \times, =$

3. $-, \div, +, =$

4. $+, \div, \times, =$

Question ID : 1841224210

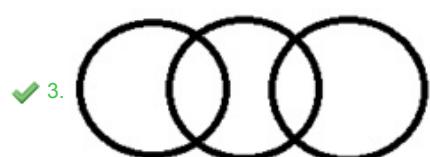
Status : Answered

Chosen Option : 3



Q.3 In a club for chartered accountants, some of them are men and some are women. Which of the following diagrams correctly reflects the situation?

Ans



Question ID : 1841224219

Status : Answered

Chosen Option : 2

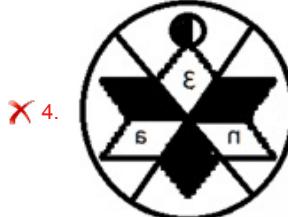
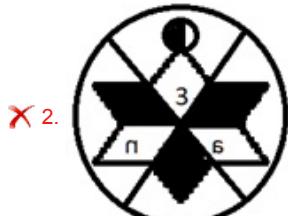
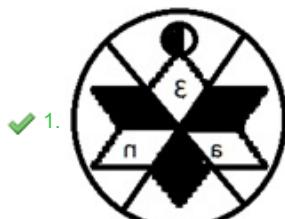


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Q.4 Select the correct mirror image of the given figure when the mirror is held at the right side.



Ans



Question ID : 1841224221

Status : Answered

Chosen Option : 1

Q.5 Each of the letters given below has been assigned a unique number. Select the combination of numbers such that the corresponding letters when arranged accordingly will form a meaningful word.

1	2	3	4	5	6	7	8	9	10
L	N	R	M	T	I	E	P	O	A

Ans ✗ 1. 3, 5, 10, 4, 8, 9, 1, 6, 7, 2

✓ 2. 5, 3, 10, 4, 8, 9, 1, 6, 2, 7

✗ 3. 1, 7, 3, 4, 10, 2, 8, 6, 5, 9

✗ 4. 1, 7, 3, 4, 10, 2, 8, 6, 9, 5

Question ID : 1841224212

Status : Answered

Chosen Option : 2



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Q.6 Given is an address, which has been reproduced in the four alternatives. Of these, only one exactly matches the given address, whereas the others have some mistakes. Select the option that is exactly the same as the given one.

ABC (P) Ltd,
No 1/89 Bajanai Koil St.
Morvarasampet Madipakkam, Chennai, Tamil Nadu 600091

Ans 1. ABC (P) Ltd
No. 1/89, Bajanai Koil St.
Morvarasampet, Madipakkam, Chennai Tamil Nadu 600091

2. ABC (P) Ltd,
No 1/89 Bajanai Koil St.,
Morvarasampet, Madipakkam, Chennai, Tamil Nadu 600091

3. ABC (P) Ltd,
No. 1/89 Bajanai Koil St,
Morvarasampet, Madipakkam, Chennai, Tamil Nadu-600091

4. ABC (P) Ltd,
No 1/89 Bajanai Koil St.
Morvarasampet Madipakkam, Chennai, Tamil Nadu 600091

Question ID : 1841224215

Status : Answered

Chosen Option : 4

Q.7 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

YWE, WTG, TOJ, OHO, HYV, ?

Ans 1. ZMG

2. ZMD

3. XMF

4. WNG

Question ID : 1841224205

Status : Answered

Chosen Option : 4

Q.8 In a certain code language, 'SURMOUNT' is coded as '13946352'. How will 'WORKOUTS' be coded in that language?

Ans 1. 56926320

2. 67137430

3. 56926321

4. 67137432

Question ID : 1841224214

Status : Answered

Chosen Option : 3

Q.9 'Elephants' is related to 'Herd' in the same way as 'Lions' is related to '_____ '.

Ans 1. Flock

2. Pride

3. Den

4. Sloth

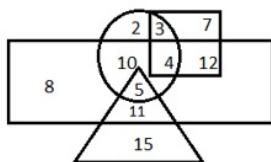
Question ID : 1841224202

Status : Answered

Chosen Option : 2



Q.10 In the Venn diagram given below, the 'Circle' represents 'Officers', the 'Triangle' represents 'Married', the 'Rectangle' represents 'Salary above Rs.50,000' and the 'Square' represents 'Post-Graduates'. The numbers given in the diagram represents number of persons of that particular category. How many single officers have salary above Rs.50,000 but do NOT have a post -graduate degree?



Ans 1. 4
 2. 8
 3. 10
 4. 2

Question ID : 1841224220

Status : Answered

Chosen Option : 3

Q.11 There are seven students - A, B, C, D, X, Y and Z - sitting in their classroom, facing in the southern direction in such a way that A and D do not sit together. Z sits second to the left of X. B does not sit with Z. X is fourth to the right of C. A and B are not sitting together. C sits in between D and Y. Y sits second to the left of the one who sits second to the left of B.

Who will sit at the extreme ends?

Ans 1. Z and X
 2. A and B
 3. B and D
 4. C and Y

Question ID : 1841224208

Status : Not Answered

Chosen Option : --

Q.12 Shobha has a total of Rs. 50,000 with her. She buys a consignment for Rs. 40,000 from this and sells it online, making a profit of 25% on the same. With all the money she has now, she buys another consignment and sells the same online making a profit of 20% on it. What is the total money Shobha has now?

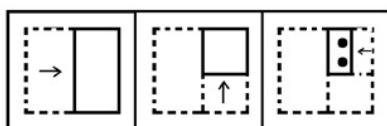
Ans 1. Rs. 60,000
 2. Rs. 78,000
 3. Rs. 72,000
 4. Rs. 75,000

Question ID : 1841224213

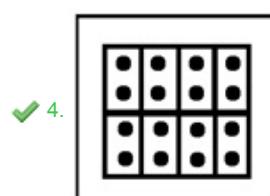
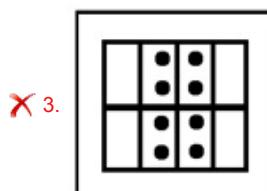
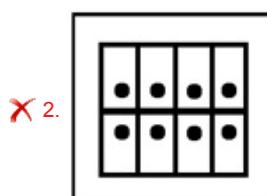
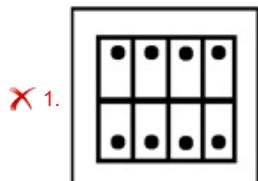
Status : Not Answered

Chosen Option : --

Q.13 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



Ans



Question ID : 1841224226

Status : Answered

Chosen Option : 4

Q.14 Which two signs should be interchanged to make the following equation correct?

$$27 - 9 \div 4 + 5 \times 3 = 14$$

Ans ✗ 1. \times and $-$

✗ 2. $+$ and \div

✓ 3. \div and $-$

✗ 4. \div and \times

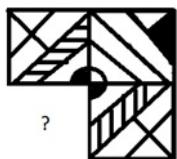
Question ID : 1841224211

Status : Answered

Chosen Option : 3



Q.15 Select the figure from the options that can replace the question mark (?) and complete the given pattern. (No rotation allowed)



Ans

- 1.
- 2.
- 3.
- 4.

Question ID : 1841224225

Status : Answered

Chosen Option : 2

Q.16 Rajani starts from her office and drives 90 km eastwards. Then she turns right and drives 20 km. Then she turns right and drives 30 km. Then she turns right and drives 100 km and reaches her home. In which direction is her office located with respect to her home and what is the shortest distance between her office and her home?

Ans 1. South-west; 100 km
 2. East; 10 km
 3. West; 10 km
 4. North-east; 100 km

Question ID : 1841224216

Status : Answered

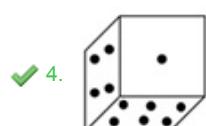
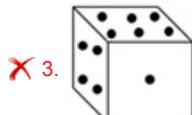
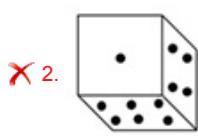
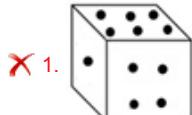
Chosen Option : 1



Q.17 Select the correct water image of the given figure.



Ans



Question ID : 1841224222

Status : Answered

Chosen Option : 1

Q.18 Select the set in which the numbers are related in the same way as are the numbers in the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(32, 152, 104)
(28, 133, 91)

Ans ✗ 1. (60, 105, 70)
✓ 2. (16, 76, 52)
✗ 3. (44, 88, 55)
✗ 4. (52, 117, 65)

Question ID : 1841224204

Status : Answered

Chosen Option : 2



Q.19 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow from the statements.

Statements:

- A. All pots are coals.
- B. All coals are rounds.
- C. All rounds are stones.

Conclusions:

- I All pots are stones.
- II All stones are coals.
- III All rounds are pots.
- IV All coals are stones.

Ans 1. All the conclusions follow

2. Only conclusions I and IV follow

3. Only conclusions II and III follow

4. Only conclusions I and II follow

Question ID : 1841224218

Status : Answered

Chosen Option : 2

Q.20 A university cultural festival has seven different events - Singing competition, Bollywood Dance, Panel Discussion, Poetry Recital, Street Play, Rock Concert and Guest Speaker - not necessarily in the same order, on a different day of week starting from Monday and ending on Sunday of the same week. There is only one event in a day. Only four events are scheduled between the Street Play and Rock Concert. The Street Play is not scheduled on Saturday. Only one event is scheduled between the Street Play and Singing competition. The Bollywood Dance competition is scheduled immediately after the Street Play. The event Panel Discussion is scheduled immediately before the Poetry Recital. The Poetry Recital is not scheduled on Thursday.

Which of the following pair is true according to the given sequence?

Ans 1. Panel Discussion - Thursday

2. Guest Speaker - Tuesday

3. Rock Concert - Friday

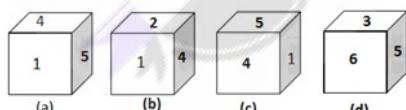
4. Poetry Recital - Saturday

Question ID : 1841224209

Status : Not Answered

Chosen Option : --

Q.21 Four different positions of the same dice are shown. Select the number that will be on the bottom face when the dice is in the position as shown in figure (d).



Ans 1. 2

2. 4

3. 3

4. 5

Question ID : 1841224224

Status : Answered

Chosen Option : 2



Q.22 The following are the criteria for selection of Business Executive - Trainees for an MNC.

The candidates must:

- (a) have BBA degree with minimum 65% marks.
- (b) have secured at least 75% marks in the Selection test.
- (c) not be less than 22 years of age as on 1 October 2022.

In case of a candidate who satisfies all the above criteria except:

- (i) at (a), but has some experience as executive trainee in a reputed MNC, his/her case is to be referred to the Director, Operations.
- (ii) at (c), but has secured more than 85% marks in the selection test, his/her case is to be referred to the HR Head.

Yukti Sharma has a BBA degree with 70% marks. She became twenty-one years old in September 2020. She secured 86% marks in the selection test. What decision would be taken in her case?

Ans 1. Her case is to be referred to the Director, Operations.

2. She would not be selected.

3. Her case is to be referred to the HR Head.

4. She would be selected.

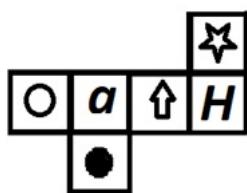
Question ID : 1841224217

Status : Not Answered

Chosen Option : --

Q.23 A cube is constructed by folding the given sheet along the lines shown. In the cube so

formed, what would be the number on the opposite side of O?



Ans

1. 

2. 

3. 

4. 

Question ID : 1841224223

Status : Answered

Chosen Option : 1

Q.24 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.

99 : 171 :: 121 : ? :: 165 : 285

Ans 1. 210

2. 209

3. 192

4. 241

Question ID : 1841224203

Status : Answered

Chosen Option : 2



Q.25 Select the figure from among the given options that can replace the question mark (?) in the following series.



Ans



Question ID : 1841224207

Status : Answered

Chosen Option : 1

Section : General Awareness

Q.1 Who among the following became the acting Prime Minister of India after the death of the first Prime Minister of independent India?

Ans ✓ 1. Gulzarilal Nanda

✗ 2. Charan Singh

✗ 3. Jagjivan Ram

✗ 4. K. Kamaraj

Question ID : 1841224249

Status : Not Answered

Chosen Option : --



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Q.2 According to the census reports of Indian Census 2011, the population of India is 1,210,854,977 with 623,724,248 males and _____ females.

Ans 1. 5,56,469,174
 2. 5,86,469,174
 3. 5,76,469,174
 4. 5,66,469,174

Question ID : 1841224236

Status : Not Answered

Chosen Option : --

Q.3 With reference to the language of the Union of India, which of the following articles of the Constitution of India provides that Hindi in Devanagari script shall be the official language of the Union?

Ans 1. Article 388A
 2. Article 343 (1)
 3. Article 342A
 4. Article 312 (2)

Question ID : 1841224240

Status : Answered

Chosen Option : 2

Q.4 With reference to agricultural reform initiatives taken by British in India, who among the following devised the Ryotwari system in India?

Ans 1. Alexander Read
 2. Saunders Alexius Abbott
 3. Henry Ramsay
 4. Edmund Montague

Question ID : 1841224231

Status : Not Answered

Chosen Option : --

Q.5 What was the theme of the 6th Edition of the monthly 'Webinar with Universities' series on 'Igniting Young Minds, Rejuvenating Rivers' organized by the National Mission for Clean Ganga (NMCG) in May 2022?

Ans 1. Waste Water Management
 2. Environmental sustainability through participation
 3. Rejuvenation of forests
 4. Preservation of Himalayan hinterland

Question ID : 1841224229

Status : Answered

Chosen Option : 1

Q.6 Which of the following is a type of asexual propagation which involves rooting a part of the parent and then severing it?

Ans 1. Separation
 2. Grafting
 3. Budding
 4. Layering

Question ID : 1841224239

Status : Not Answered

Chosen Option : --



Q.7 India defeated _____ to win bronze at the Men's Hockey Asia Cup 2022 in Jakarta, Indonesia.

Ans 1. China 3-0
 2. Japan 1-0
 3. Japan 3-0
 4. China 1-0

Question ID : 1841224243

Status : Not Answered

Chosen Option : --

Q.8 Which of the following is an inland "portion" of the ocean and is therefore distinguished from a lake by its salty water?

Ans 1. Aquifer
 2. Wetland
 3. Sea
 4. Pond

Question ID : 1841224250

Status : Answered

Chosen Option : 1

Q.9 Which among the following is the first dedicated Indian astronomy mission aimed at studying celestial sources in X-ray, optical and UV spectral bands simultaneously?

Ans 1. Apple
 2. Saral
 3. Aryabhata
 4. AstroSat

Question ID : 1841224238

Status : Answered

Chosen Option : 3

Q.10 Indian National Congress was founded in December 1885 by _____ political workers.

Ans 1. ninety-two
 2. ninety-nine
 3. seventy-two
 4. seventy-nine

Question ID : 1841224232

Status : Answered

Chosen Option : 3

Q.11 Famous dancer Arjun Mishra is a specialist in which of the following dance forms?

Ans 1. Kuchipudi
 2. Manipuri
 3. Bharatnatyam
 4. Kathak

Question ID : 1841224244

Status : Not Answered

Chosen Option : --



Q.12 As per Constitution of India, Panchayats at the intermediate level may not be constituted in a State having a population not exceeding:

Ans 1. five lakh
 2. twelve lakh
 3. twenty lakh
 4. nine lakh

Question ID : 1841224242

Status : Not Answered

Chosen Option : --

Q.13 As per real estate consultant Cushman & Wakefield's 2021 Global Manufacturing Risk Index, India has overtaken the United States (US) to become the _____ sought-after manufacturing destination globally.

Ans 1. second-most
 2. top-most
 3. fourth-most
 4. third-most

Question ID : 1841224235

Status : Not Answered

Chosen Option : --

Q.14 As per Article 45 of the Constitution of India, the State shall endeavour to provide early childhood care and education for all children until they complete the age of:

Ans 1. 6 years
 2. 5 years
 3. 8 years
 4. 7 years

Question ID : 1841224248

Status : Answered

Chosen Option : 1

Q.15 With reference to the medieval history of India, the Battle of Khanwa was fought between:

Ans 1. Rana Sanga and Humayun
 2. Ibrahim Lodi and Babur
 3. Ibrahim Lodi and Akbar
 4. Rana Sanga and Babur

Question ID : 1841224230

Status : Answered

Chosen Option : 4

Q.16 With reference to fossil energy sources, the largest component of natural gas is:

Ans 1. ethanol
 2. methanol
 3. ethylene
 4. methane

Question ID : 1841224247

Status : Answered

Chosen Option : 4



Q.17 The Centre for Cultural Resources and Training (CCRT) is one of the premier institutions working in the field of linking education with culture. CCRT was established in:

Ans 1. 1989
 2. 1979
 3. 1977
 4. 1987

Question ID : 1841224246

Status : Not Answered

Chosen Option : --

Q.18 In which of the following towns of India, Union minister for health and family welfare Mansukh Mandaviya inaugurated a national food laboratory (NFL) constructed by the Food Safety and Standard Authority of India in June 2022?

Ans 1. Bettiah
 2. Raxaul
 3. Kanti
 4. Motipur

Question ID : 1841224228

Status : Not Answered

Chosen Option : --

Q.19 With which music is the noted musician Malini Rajurkar mainly associated?

Ans 1. Western classical music
 2. Folk music
 3. Hindustani Classical music
 4. Carnatic Classical music

Question ID : 1841224245

Status : Not Answered

Chosen Option : --

Q.20 Which among the following dates is observed as 'Civil Services Day' in India for the civil servants to rededicate themselves to the cause of citizens and renew their commitment to public service and excellence in work?

Ans 1. 21 August
 2. 21 March
 3. 21 April
 4. 21 July

Question ID : 1841224241

Status : Not Answered

Chosen Option : --

Q.21 With reference to India's water resources development projects, the Krishna Raja Sagara dam and reservoir is built across the river:

Ans 1. Krishna
 2. Godavari
 3. Kaveri
 4. Tungabhadra

Question ID : 1841224237

Status : Not Answered

Chosen Option : --



Q.22 With reference to the ancient culture & civilization of India, which of the following sites of the Indus Valley Civilization is in Haryana?

Ans 1. Rakhigarhi
 2. Kalibangan
 3. Lothal
 4. Dholavira

Question ID : 1841224251

Status : Not Answered

Chosen Option : --

Q.23 As of 15th June 2022, as per Reserve Bank of India declared rates, the bank rate in India is _____.

Ans 1. 6.25%
 2. 5.15%
 3. 4.75%
 4. 5.75%

Question ID : 1841224233

Status : Answered

Chosen Option : 3

Q.24 According to the Economic Survey 2021-22, India's economic growth is expected to remain in the range of _____ in 2022-23.

Ans 1. 8% to 8.5%
 2. 6% to 6.5%
 3. 5% to 5.5%
 4. 9% to 9.5%

Question ID : 1841224234

Status : Not Answered

Chosen Option : --

Q.25 What is the name of a supercomputer made in India which was installed at IIT Roorkee in March 2022?

Ans 1. PARAM Prakriti
 2. PARAM Brahmaputra
 3. PARAM Panini
 4. PARAM Ganga

Question ID : 1841224227

Status : Not Answered

Chosen Option : --

Section : Quantitative Aptitude

Q.1 A calculates his profit percentage on the selling price of an article, whereas B calculates his profit percentage on the cost price of the article. If the difference between their profits is Rs.588; the selling price of the article for both of them is the same, and both of them get 28% profit, then the selling price (in Rs.) of the article is:

Ans 1. 9,000
 2. 10,000
 3. 10,200
 4. 9,600

Question ID : 1841224255

Status : Not Answered

Chosen Option : --

Q.2 A can do a certain work in 60 days. B is 25% more efficient than A, while C is 20% more efficient than B. B alone completed 37.5% of work. A and C together completed the remaining work. The entire work got completed in:

Ans 1. 35 days
 2. 33 days
 3. 32 days
 4. 30 days

Question ID : 1841224261

Status : Answered

Chosen Option : 2

Q.3 To complete a certain work, A takes the same time that B and C together take. A and B working together can complete the same work in 20 days and C alone can complete it in 30 days. B and C together work for 8 days. In how many days can A alone complete the remaining work?

Ans 1. 20
 2. 16
 3. 12
 4. 15

Question ID : 1841224269

Status : Not Answered

Chosen Option : --

Q.4 Simplify the following expression.
$$\frac{0.854 \times 0.742 + 0.43 \times 5.124}{0.017 \times 1.4 + 2.1 \times 0.322}$$

Ans 1. 1.33
 2. 1.34
 3. 1.12
 4. 1.22

Question ID : 1841224252

Status : Not Answered

Chosen Option : --



Q.5 A, B and C start a business with their capitals in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{6}$. After 6 months, A withdraws half of his capital; B increases his capital by 50% and C increases his capital by 100%. After a year, what will be the share (in Rs.) of C in the total profit of Rs. 12,42,000?

Ans 1. 4,47,120
 2. 4,96,800
 3. 3,97,440
 4. 2,98,080

Question ID : 1841224257

Status : Answered

Chosen Option : 4

Q.6 The savings of Seema are equal to 16% of her expenditure. If her income increases by 35% and her expenditure increases by 36%, then by what percentage will her savings increase or decrease?

Ans 1. Decrease, 10%
 2. Increase, 10%
 3. Increase, 28.75%
 4. Decrease, 25.5%

Question ID : 1841224272

Status : Answered

Chosen Option : 3

Q.7 When 'x' is subtracted from each of 22, 38, 31 and 55, the numbers so obtained in this order are in proportion. What is the mean proportional between $(x + 5)$ and $(3x - 2)$?

Ans 1. $4\sqrt{11}$
 2. $2\sqrt{7}$
 3. $2\sqrt{14}$
 4. $3\sqrt{10}$

Question ID : 1841224273

Status : Answered

Chosen Option : 3

Q.8 A shopkeeper sells an article for Rs.564.57 after giving three successive discounts of 18%, 15% and 10%. If he sells it by giving a single discount of 30%, then the selling price of the article is:

Ans 1. Rs.595
 2. Rs.630
 3. Rs.665
 4. Rs.588

Question ID : 1841224256

Status : Not Answered

Chosen Option : --



Q.9 The difference between the compound interests on a certain sum for $1\frac{1}{2}$ years at a rate of 20% p.a. is Rs.1,716 when the interest is compounded half yearly and compounded annually. The sum (in Rs.) is:

Ans 1. 1,32,000
 2. 1,43,000
 3. 2,14,500
 4. 1,56,000

Question ID : 1841224259

Status : Not Answered

Chosen Option : --

Q.10 A trader earns a profit of 30% by selling an article at 35% discount on its marked price. If the cost price of the article is increased by 20% and the trader still wants to earn the same profit percentage as earlier, then how much discount (in percentage) should the trader offer on the same marked price?

Ans 1. 24%
 2. 22%
 3. 25%
 4. 28%

Question ID : 1841224268

Status : Answered

Chosen Option : 2

Q.11 Two vessels A and B, each with the capacity of 8 litres, are full of solutions of acid and water. The ratio of acid and water in Vessel A is 3 : 1 and that in case of Vessel B is 5 : 3. Two litres of solution are taken out from B and added to A. After mixing thoroughly, 2 litres of solution are taken out from A and added to B. What is the ratio of acid and water in the final solution in B?

Ans 1. 11 : 8
 2. 13 : 7
 3. 7 : 3
 4. 9 : 4

Question ID : 1841224275

Status : Not Answered

Chosen Option : --

Q.12 In 2020, if the total income of companies A and B was Rs. 531 crore and their expenditures were equal, then the total expenditure (in Rs. crore) of both the companies in that year was:

Ans 1. 360
 2. 240
 3. 350
 4. 280

Question ID : 1841224274

Status : Not Answered

Chosen Option : --



Q.13 Study the following table and answer the question that follows.

Number of Students Enrolled for Vocational Courses (VCs) in Institutes A, B, C and D from 2016 to 2019

Year->\ Institute	2016	2017	2018	2019
A	120	140	165	150
B	150	160	150	180
C	200	150	175	220
D	180	210	200	240

The total number of students enrolled for VCs in institutes A and C in 2017 and 2018 is what percentage less than the total number of students enrolled in institutes B and D in 2016 and 2019?

Ans 1. 15.5%
 2. 18.5%
 3. 16%
 4. 19%

Question ID : 1841224262

Status : Answered

Chosen Option : 4

Q.14 The cost of a car is 250% more than that of a motorcycle. If the cost of the car is decreased by 40% and that of the motorcycle is increased by 40%, then what will be the percentage change in the total cost of one car and two motorcycles as compared to the original cost? (Correct to one decimal place)

Ans 1. Decrease by 12.2%
 2. Increase by 10.6%
 3. Decrease by 10.9%
 4. Increase by 8.8%

Question ID : 1841224254

Status : Not Answered

Chosen Option : --

Q.15 The cost of 5 pens and 8 pencils is Rs. 131. If the cost of a pen is increased by Rs. 2.50 and that of a pencil is decreased by 50 paise, then the cost of 6 pens and 7 pencils becomes Rs.157. What is the original cost (in Rs.) of 7 pens and 2 pencils?

Ans 1. 130
 2. 142
 3. 135
 4. 132

Question ID : 1841224270

Status : Answered

Chosen Option : 2



Q.16 If $x = \alpha$ and $y = \beta$ is the solution of the pair of equations $mx + ny = m^2$ and $nx + my = n^2$, where $m \neq n$, then what is the value of $(\alpha - \beta)$?

Ans 1. $m + n$
 2. $m - n$
 3. $m^2 + n^2$
 4. $m^2 - n^2$

Question ID : 1841224264

Status : Not Answered

Chosen Option : --

Q.17 In $\triangle PQR$, $\angle Q = 90^\circ$; M and N are the mid-points of PR and PQ, respectively and QM and RN intersect each other at 90° . What is the length (in cm) of RN if QR = 12 cm?

Ans 1. $6\sqrt{3}$
 2. $8\sqrt{3}$
 3. $8\sqrt{6}$
 4. $6\sqrt{6}$

Question ID : 1841224276

Status : Not Answered

Chosen Option : --

Q.18 A certain sum invested at a rate of 8% p.a. for $3\frac{1}{2}$ years at simple interest is Rs.2,944 less than the simple interest on the same sum for 10 years at double the rate of interest. The sum (in Rs.) is:

Ans 1. 9,800
 2. 9,200
 3. 9,000
 4. 9,500

Question ID : 1841224258

Status : Not Answered

Chosen Option : --

Q.19 Simplify the following expression.

$$\frac{(\sec \theta - \cos \theta)(\cot \theta + \tan \theta)}{(1 + \tan \theta + \sec \theta)(\sec \theta)(1 + \cot \theta - \cosec \theta)}, 0^\circ < \theta < 90^\circ$$

Ans 1. $\frac{\tan \theta}{2}$
 2. $\frac{\cot \theta}{2}$
 3. $\cosec \theta \sec \theta$
 4. $\sin \theta \cos \theta$

Question ID : 1841224265

Status : Not Answered

Chosen Option : --



Q.20 A car travels for 40 minutes at a speed of 40 km/h, for another 50 minutes at a speed of 45 km/h and for next 90 minutes at a speed of 60 km/h. What is the average speed (in km/h) of the car for the entire journey?

Ans

- 1. $49\frac{1}{4}$
- 2. $50\frac{1}{2}$
- 3. $51\frac{7}{8}$
- 4. $50\frac{5}{8}$

Question ID : 1841224253

Status : Not Answered

Chosen Option : --

Q.21 Nidhi invested her savings in schemes A and B in the ratio 2 : 3, respectively, for $1\frac{1}{2}$ years. Scheme A offers interest at 20% p.a. compounded half yearly, while Scheme B offers interest at 10% p.a. compounded yearly. If the total interest received by her from both the schemes is Rs.13,524, then the amount (in Rs.) invested by her in Scheme A is:

Ans

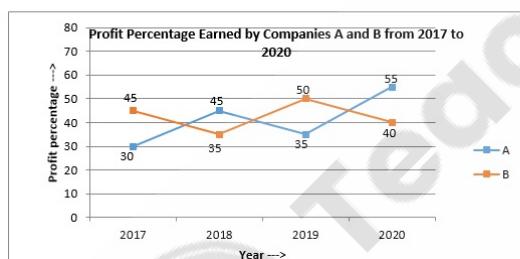
- 1. 36,000
- 2. 24,000
- 3. 15,000
- 4. 18,000

Question ID : 1841224271

Status : Not Answered

Chosen Option : --

Q.22 Study the following graph and answer the question that follows.



$$\text{Profit percentage} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$

If the expenditures of Company A in 2017 and 2019 were the same, then the ratio of the incomes of the company in 2017 and 2019 was:

Ans

- 1. 26 : 29
- 2. 26 : 27
- 3. 29 : 31
- 4. 29 : 27

Question ID : 1841224263

Status : Answered

Chosen Option : 3

Q.23 A 250 m-long train passes a man going at a speed of 10 km/h, in the opposite direction, in 9 seconds. How much time (in seconds) will the train take to overtake a 200 m-long train completely, running at a speed of 63 km/h in the same direction?

Ans 1. 40
 2. 60
 3. 45
 4. 50

Question ID : 1841224260

Status : Answered

Chosen Option : 2

Q.24 The area of a rectangular park is $10,560 \text{ m}^2$. The sum of its one diagonal and the shorter side is 2.2 times its longer side. Its perimeter is 12 m more than that of a square field. What is the length (in m) of each diagonal of the square field?

Ans 1. $108\sqrt{2}$
 2. $90\sqrt{2}$
 3. $106\sqrt{2}$
 4. $100\sqrt{2}$

Question ID : 1841224266

Status : Not Answered

Chosen Option : --

Q.25 A, B and C contested an election. All the votes polled were valid. A got 38% of the total votes. For every 45 votes polled, B got 18 votes. The winner got 5,760 more votes than the person who received the least number of votes. The total number of votes polled was:

Ans 1. 37,200
 2. 38,400
 3. 36,000
 4. 32,000

Question ID : 1841224267

Status : Not Answered

Chosen Option : --

Section : English Comprehension

Q.1 Select the most appropriate option that can substitute the underlined word in the given sentence. If there is no need to substitute it, select 'No substitution required'.

The sun was shining but a hot wind was blowing raising the temperature to 46 degree Celsius.

Ans 1. because
 2. yet
 3. and
 4. no substitution required

Question ID : 1841224289

Status : Answered

Chosen Option : 3



Q.2 The following sentence has been divided into parts. One of them may contain a spelling error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

Father wanted a wealthier / and more distanguished match / for his eldest daughter.

Ans 1. Father wanted a wealthier
 2. No error
 3. for his eldest daughter.
 4. and more distanguished match

Question ID : 1841224296

Status : Answered

Chosen Option : 4

Q.3 Select the most appropriate option to fill in the blank.

Many of the roads in the Pragati Maidan complex _____ again within next six months.

Ans 1. will be laid
 2. are laid
 3. are laying
 4. have been laid

Question ID : 1841224284

Status : Answered

Chosen Option : 1

Q.4 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Her first song as a playback singer in Hindi was recorded in 1947 but the song has not gain popularity.

Ans 1. have not gained
 2. could not gained
 3. did not gain
 4. no substitution required

Question ID : 1841224291

Status : Answered

Chosen Option : 3

Q.5 Select the option that expresses the given sentence in passive voice.

Buy some fruits and sweets for the children before visiting them.

Ans 1. Let some fruits and sweets be bought for the children before visiting them.
 2. You should buy some fruits and sweets for the children before visiting them.
 3. Some fruits and sweets need to be bought for the children before visiting them.
 4. Let us buy some fruits and sweets for the children before visiting them.

Question ID : 1841224285

Status : Answered

Chosen Option : 2



Q.6 Select the most appropriate synonym of the word given in the brackets to fill in the blank.

Mrs. Rao is one of the _____ (Vociferous) members of the committee and does not let others speak when any issue is being discussed.

Ans 1. loud

2. silent

3. low

4. soft

Question ID : 1841224295

Status : Answered

Chosen Option : 1

Q.7 Select the most appropriate option to fill in the blank.

I used some Epsom salt for my Adeniums _____ they would flower better.

Ans 1. even though

2. because

3. so that

4. in case

Question ID : 1841224279

Status : Answered

Chosen Option : 3

Q.8 Select the most appropriate option to fill in the blank.

The boys looked _____ for their ball but couldn't find it.

Ans 1. everywhere

2. anywhere

3. nowhere

4. somewhere

Question ID : 1841224278

Status : Answered

Chosen Option : 1

Q.9 Select the most appropriate meaning of the given idiom.

Make head or tail of something

Ans 1. To make the best of an opportunity

2. To attempt to understand something

3. To create something beautiful

4. To earn enough for one's needs

Question ID : 1841224293

Status : Answered

Chosen Option : 1



Q.10 Select the most appropriate option to fill in the blank.

The _____ kitchen waste makes an excellent manure whereas the _____ waste emits a foul smell.

Ans 1. decaying; decaying
 2. decaying; decayed
 3. decayed; decayed
 4. decayed; decaying

Question ID : 1841224277

Status : Answered

Chosen Option : 4

Q.11 Select the most appropriate ANTONYM of the word given in the brackets to fill in the blank.

He _____ (Relinquished) his authority on the company even after he retired.

Ans 1. retained
 2. fought
 3. waived
 4. allowed

Question ID : 1841224294

Status : Answered

Chosen Option : 1

Q.12 Select the most appropriate option that can substitute the underlined word in the given sentence. If there is no need to substitute it, select 'No substitution required'.

The crowd took hold of the thief and thrashed him.

Ans 1. got
 2. no substitution required
 3. caught
 4. made

Question ID : 1841224287

Status : Answered

Chosen Option : 1

Q.13 Select the most appropriate meaning of the given idiom.

Full of beans

Ans 1. crazy and whimsical
 2. lively and in high spirits
 3. vain and pompous
 4. talkative and selfish

Question ID : 1841224292

Status : Answered

Chosen Option : 2



Q.14 Select the option that expresses the given sentence in reported speech.

Father said to Mohit, "How much money do you need for your school trip?"

Ans 1. Father asked Mohit that how much money do you need for your school trip.

2. Father asked Mohit how much money you need for your school trip.

3. Father asked Mohit how much money did he need for his school trip.

4. Father asked Mohit how much money he needed for his school trip.

Question ID : 1841224281

Status : Answered

Chosen Option : 4

Q.15 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Although he is quite new at one's job, he works efficiently and confidently.

Ans 1. in his task

2. no substitution required

3. on one's job

4. at his job

Question ID : 1841224290

Status : Answered

Chosen Option : 4

Q.16 Select the most appropriate phrase to fill in the blank.

My daughter _____ a friend for a visit to India when she came back home from Germany.

Ans 1. brought along

2. brought down

3. brought out

4. brought up

Question ID : 1841224280

Status : Answered

Chosen Option : 1

Q.17 Select the most appropriate option to fill in the blank.

When they arrived at our house, we _____ our dinner.

Ans 1. were having

2. Have

3. have had

4. are having

Question ID : 1841224283

Status : Answered

Chosen Option : 1



Q.18 Select the most appropriate option that can substitute the underlined word in the given sentence. If there is no need to substitute it, select 'No substitution required'.

In winter evenings there is always a thick fog through this city making the people breathless.

Ans 1. over

2. no substitution required

3. under

4. between

Question ID : 1841224288

Status : Answered

Chosen Option : 1

Q.19 Select the option that expresses the given sentence in active voice.

All the books and toys should have been placed on their proper shelves.

Ans 1. You should have placed all the books and toys on their proper shelves.

2. You need to place all the books and toys on their proper shelves.

3. You should place all the books and toys on their proper shelves.

4. You will have placed all the books and toys on their proper shelves.

Question ID : 1841224286

Status : Answered

Chosen Option : 1

Q.20 Select the option that expresses the given sentence in direct speech.

My mother told me not to buy unnecessary things from the fair.

Ans 1. My mother said to me, "You should not have bought unnecessary things from the fair."

2. My mother said to me, "Do not buy unnecessary things from the fair."

3. My mother said to me, "I hope you did not buy unnecessary things from the fair."

4. My mother said to me, "Unnecessary things should not be bought from the fair."

Question ID : 1841224282

Status : Answered

Chosen Option : 2



Comprehension:

Read the given passage and answer the questions that follow.

In a world of naval supremacy, aircraft carriers may be the largest naval ships to sail the seas, but arguably a submarine the size of nearly two football fields is a little more intimidating. The typhoon class submarines of the Russian navy are the largest submersible ships that have ever been built. More specifically, a Russian submarine known as Dmitriy Donskoy, TK-208, is the world's largest submarine. Measuring in at 175 metres, nearly 600 feet, the submarine has been in commission since 1980, with a few periods of significant refurbishment in its history. In addition to the submarine's impressive length, it's also 25 metres wide, giving it quite the presence in the water. The displacement of the ship is 48,000 tons and is operated with a crew of just 160 men.

The ship was first launched in 1980, but in 1990 it entered an extensive dry dock period to bring it up to modern standards. It was there for over a decade until in 2002 the ship was fully fitted with the latest hardware and relaunched into service. The Dmitriy Donskoy left drydock from the Russian city of Severodvinsk at this point and has been serving the Russian navy ever since. It contains 20 launchers for the RSM-56 Bulava ballistic missile. This weapons system is known around the world as one of the most advanced submarine-launched missile systems ever built.

In 2005, the world's largest submarine launched its first Bulava missile on 27 September. In order to do so, the sub had to surface and the missile was fired from the White Sea. By December of the same year, the crew was ready to try the first firing of a Bulava missile from underwater. They succeeded in doing so on 21 December, hitting a target on the Kera Test Range. Notably, the crews of the submarine fired many other tests of the Bulava missile, including one failed test in 2009 and a successful one in 2010.

All of the ship's sister submarines have been decommissioned at this point, so the Dmitriy Donskoy is easily the largest submarine still in active service today.

SubQuestion No : 21

Q.21 The central theme of the passage is:

Ans 1. the largest aircraft carrier
 2. the Bulava ballistic missiles
 3. the Russian submarines
 4. the world's largest submarine

Question ID : 1841224298

Status : Answered

Chosen Option : 4



Comprehension:

Read the given passage and answer the questions that follow.

In a world of naval supremacy, aircraft carriers may be the largest naval ships to sail the seas, but arguably a submarine the size of nearly two football fields is a little more intimidating. The typhoon class submarines of the Russian navy are the largest submersible ships that have ever been built. More specifically, a Russian submarine known as Dmitriy Donskoy, TK-208, is the world's largest submarine. Measuring in at 175 metres, nearly 600 feet, the submarine has been in commission since 1980, with a few periods of significant refurbishment in its history. In addition to the submarine's impressive length, it's also 25 metres wide, giving it quite the presence in the water. The displacement of the ship is 48,000 tons and is operated with a crew of just 160 men.

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SubQuestion No : 22

Q.22 The Dmitriy Donskoy submarine in its present condition has been in service since the year:

Ans 1. 1980
 2. 1990
 3. 2005
 4. 2002

Question ID : 1841224299

Status : **Answered**

Chosen Option : 1



Comprehension:

Read the given passage and answer the questions that follow.

In a world of naval supremacy, aircraft carriers may be the largest naval ships to sail the seas, but arguably a submarine the size of nearly two football fields is a little more intimidating. The typhoon class submarines of the Russian navy are the largest submersible ships that have ever been built. More specifically, a Russian submarine known as Dmitriy Donskoy, TK-208, is the world's largest submarine. Measuring in at 175 metres, nearly 600 feet, the submarine has been in commission since 1980, with a few periods of significant refurbishment in its history. In addition to the submarine's impressive length, it's also 25 metres wide, giving it quite the presence in the water. The displacement of the ship is 48,000 tons and is operated with a crew of just 160 men.

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All of the ship's sister submarines have been decommissioned at this point, so the Dmitriy Donskoy is easily the largest submarine still in active service today.

SubQuestion No : 23

Q.23 When was the first Bulava missile fired successfully from underwater from the Dmitriy Donskoy submarine?

Ans 1. 27 September 2009
 2. 21 December 2010
 3. 21 December 2005
 4. 27 September 2005

Question ID : 1841224300

Status : **Answered**

Chosen Option : 4



Comprehension:

Read the given passage and answer the questions that follow.

In a world of naval supremacy, aircraft carriers may be the largest naval ships to sail the seas, but arguably a submarine the size of nearly two football fields is a little more intimidating. The typhoon class submarines of the Russian navy are the largest submersible ships that have ever been built. More specifically, a Russian submarine known as Dmitriy Donskoy, TK-208, is the world's largest submarine. Measuring in at 175 metres, nearly 600 feet, the submarine has been in commission since 1980, with a few periods of significant refurbishment in its history. In addition to the submarine's impressive length, it's also 25 metres wide, giving it quite the presence in the water. The displacement of the ship is 48,000 tons and is operated with a crew of just 160 men.

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All of the ship's sister submarines have been decommissioned at this point, so the Dmitriy Donskoy is easily the largest submarine still in active service today.

SubQuestion No : 24

Q.24 "Arguably a submarine the size of nearly two football fields is a little more intimidating." The word 'intimidating' here means:

Ans 1. disheartening
 2. encouraging
 3. unnerving
 4. terrorising

Question ID : 1841224301

Status : Answered

Chosen Option : 3



Comprehension:

Read the given passage and answer the questions that follow.

In a world of naval supremacy, aircraft carriers may be the largest naval ships to sail the seas, but arguably a submarine the size of nearly two football fields is a little more intimidating. The typhoon class submarines of the Russian navy are the largest submersible ships that have ever been built. More specifically, a Russian submarine known as Dmitriy Donskoy, TK-208, is the world's largest submarine. Measuring in at 175 metres, nearly 600 feet, the submarine has been in commission since 1980, with a few periods of significant refurbishment in its history. In addition to the submarine's impressive length, it's also 25 metres wide, giving it quite the presence in the water. The displacement of the ship is 48,000 tons and is operated with a crew of just 160 men.

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All of the ship's sister submarines have been decommissioned at this point, so the Dmitriy Donskoy is easily the largest submarine still in active service today.

SubQuestion No : 25

Q.25 Which statement is not true according to the passage?

Ans 1. The Dmitriy Donskoy submarine contains 20 launchers for the RSM-56 Bulava ballistic missile.

2. The RSM-56 Bulava ballistic missile is the most advanced submarine-launched missile systems ever built.

3. The Dmitriy Donskoy submarine is 175 meters long and 25 meters wide.

4. A crew of just 175 men operates the Dmitriy Donskoy submarine.

Question ID : 1841224302

Status : Answered

Chosen Option : 4

