



SSC CHSL 5 July 2019 Shift-1

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Reasoning

Instructions

For the following questions answer them individually

Question 1

$A + B$ means 'A is husband of B'

$A - B$ means 'A is brother of B'

$A \times B$ means 'A is sister of B'

$A \div B$ means 'A is mother of B'.

If $P + R \div S \times M - K$, then how is R related to K ?

- A Daughter
- B Mother
- C Paternal grandmother
- D Sister

Answer: B

Explanation:

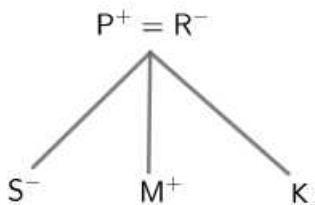
$P + R = P$ is husband of R

$R \div S = R$ is mother of S

$S \times M = S$ is sister of M

$M - K = M$ is brother of K

According to the problem, the family tree is



\therefore R is the Mother of K

Hence, the correct answer is Option B

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Question 2

If YOGHURT is coded as 7678392, then how will QUICKLY be coded as?

- A 8393127
- B 8393237
- C 7383237
- D 8393117

Answer: B

Explanation:

The Sum of digits of the place values of the alphabet is given

$$Y = 2 + 5 = 7$$

$$O = 1 + 5 = 6$$

$$G = 7$$

$$H = 8$$

$$U = 2 + 1 = 3$$

$$R = 1 + 8 = 9$$

$$T = 2 + 0 = 2$$

Using the same logic,

$$Q = 1 + 7 = 8$$

$$U = 2 + 1 = 3$$

$$I = 9$$

$$C = 3$$

$$K = 1 + 1 = 2$$

$$L = 1 + 2 = 3$$

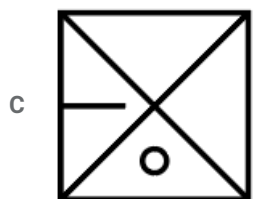
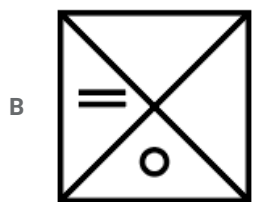
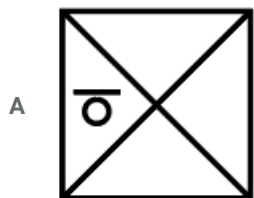
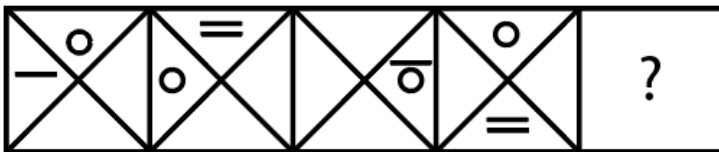
$$Y = 2 + 5 = 7$$

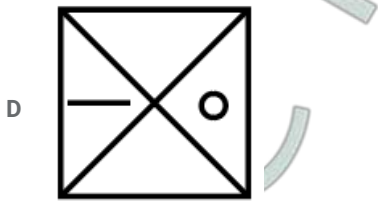
∴ QUICKLY is coded as 8393237

Hence, the correct answer is Option B

Question 3

Select the figure that will come next in the following figure series.





D

Answer: C

Explanation:

The circle is moving one place and two places alternatively along the side of the square in anticlockwise direction

The line increasing and decreasing by 1 alternatively moving one place along the side of the square in clockwise direction

∴ The figure that will come next in the following figure series is



Hence, the correct answer is Option C

Question 4

Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

A CGKQ

B HLPT

C DHLP

D XBFJ

Answer: A

Explanation:

C $\xrightarrow{+3}$ G $\xrightarrow{+3}$ K $\xrightarrow{+4}$ Q

H $\xrightarrow{+3}$ L $\xrightarrow{+3}$ P $\xrightarrow{+3}$ T

D $\xrightarrow{+3}$ H $\xrightarrow{+3}$ L $\xrightarrow{+3}$ P

X $\xrightarrow{+3}$ B $\xrightarrow{+3}$ F $\xrightarrow{+3}$ J

∴ Answer is CGKQ

Question 5

'Kidney' is related to 'Excretion' in the same way as 'Heart' is related to '_____':

- A Blood Circulation
- B Heart Chambers
- C Artery
- D Human body

Answer: A

Explanation:

The main function of the **kidney** is the **excretion** of body wastes.

In same way, **Blood circulation** by pumping blood is the main function of **Heart**.

Question 6

Three persons A, B and C have different amounts of rupees with them. If A takes ₹6 from C, A will have equal amount as B has. A and B together have total ₹74. How many rupees does B have ?

- A 44
- B 30
- C 40
- D 34

Answer: C

Explanation:

Let initially, A has ₹ x , B has ₹ y and C has ₹ z

According to question,

$$x + 6 = y \text{ and } x + y = 74,$$

So by solving equation, We get

$$\therefore y = 40$$

Question 7

Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

- A Biology
- B Political Science
- C History
- D Sociology

Answer: A

Explanation:

Political Science, History, Sociology are part of Social Science.

Biology is part of Physical Science.

\therefore Biology is the odd one among the four words

Hence, the correct answer is Option A

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Question 8

Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.



Answer: D

Explanation:

When the mirror is placed to the right of the figure,

The facing of the figure to the left and right direction changes to opposite direction in mirror image(right facing changes to left and vice versa). There won't be change in shape of the mirror image.

Number 5 and word GYN which is to the left will be to the right in the mirror image and the mirror image of 5 and GYN is shown in below figure



Hence, the correct answer is Option D

Question 9

Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

Zinc : Brass

A Gold : Ornament

- B Silver : Ring
- C Mercury : Thermometer
- D Copper : Bronze

Answer: D

Explanation:

Brass is an alloy of Zinc

Similarly, Bronze is an alloy of Copper

∴ Copper : Bronze is related in the same way as Zinc : Brass is related

Hence, the correct answer is Option D

Question 10

Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

- A 50
- B 65
- C 195
- D 170

Answer: C

Explanation:

The logic here is

$$50 = 49 + 1 = 7^2 + 1$$

$$65 = 64 + 1 = 8^2 + 1$$

$$170 = 169 + 1 = 13^2 + 1$$

The above numbers are in the form of $n^2 + 1$

$$195 = 196 - 1 = 14^2 - 1$$

It is in the form of $n^2 - 1$

∴ 195 is the different number among the given numbers.

Hence, the correct answer is Option C

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Question 11

Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair.

19 : 380

- A 14 : 196
- B 17 : 289
- C 13 : 182
- D 12 : 146

Answer: C

Explanation:

$$380 = 19 \times 20 = 19 \times (19+1)$$

Similarly, $182 = 13 \times 14 = 13 \times (13+1)$

∴ 13 : 182 is related in the same way as 19 : 380 related

Hence, the correct answer is Option C

Question 12

Select the set in which the numbers are related in the same way as are the numbers of the following set.
(2, 4, 8)

A (3, 9, 34)

B (4, 16, 64)

C (1, 2, 6)

D (5, 25, 625)

Answer: B

Explanation:

$$2^2 = 4$$

$$4 \times 2 = 8$$

Third number is the product of first and second number

Similarly,

$$4^2 = 16$$

$$16 \times 4 = 64$$

∴ (4, 16, 64) is related in the same way as (2, 4, 8)

Hence, the correct answer is Option B

Question 13

Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

MDUK : QHYO :: SALQ : ?

A WEPU

B WDPV

C VDPV

D WEPV

Answer: A

Explanation:

$$M + 4 = Q$$

$$D + 4 = H$$

$$U + 4 = Y$$

$$K + 4 = O$$

Using the same logic,

$$S + 4 = W$$

$$A + 4 = E$$

$$L + 4 = P$$

$$Q + 4 = U$$

∴ SALQ : WEPQ is related in the same way as MDUK : QHYO

Hence, the correct answer is Option A

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Question 14

Which two signs should be interchanged in the following equation to make it correct?

$$405 + 27 \times 40 - 308 \div 22 = 314$$

A $+ \text{ and } \div$

B $\times \text{ and } +$

C $\div \text{ and } \times$

D $+ \text{ and } -$

Answer: A

Explanation:

By trial and error method,

Option A

$$405 \div 27 \times 40 - 308 + 22 = 314$$

$$15 \times 40 - 308 + 22 = 314$$

$$600 - 308 + 22 = 314$$

$$314 = 314$$

Hence, the correct answer is Option A

Question 15

Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

s _ _ m r q c t _ p d m _ q _ t s _ _ m r q c t

A pdsrpd

B pdsrpd

C rdsrpd

D pdsrpd

Answer: A

Explanation:

By Trial and Error method,

Option A

s p d m r q c t | s p d m r q c t | s p d m r q c t

The above letters form a series.

Hence, the correct answer is Option A

Question 16

Select the set in which the numbers are related in the same way as are the numbers of the following set.

(5, 7, 11)

A (15, 17, 23)

B (14, 16, 18)

C (23, 29, 31)

D (17, 19, 21)

Answer: C

Explanation:

5,7,11 are three consecutive prime numbers

Similarly,

23,29,31 are three consecutive prime numbers

\therefore (23, 29, 31) are related in the same way as (5, 7, 11) related

Hence, the correct answer is Option C

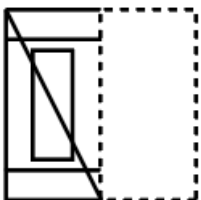
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Question 17

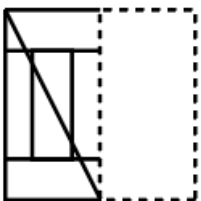
A figure of transparent sheet with a pattern is given below. Select the option that shows how the pattern would appear when the transparent sheet is folded at the dotted line.



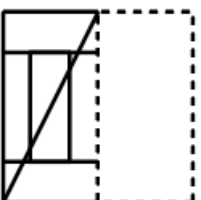
A



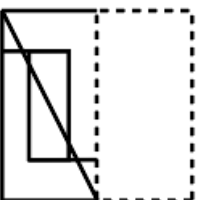
B



C



D

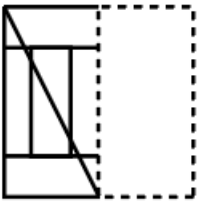


Answer: B

Explanation:

The rectangular shape on the right of the dotted line aligns with the two parallel lines on the left of the dotted line as they are equal in height.

∴ When the given transparent sheet is folded at the dotted line, it would appear as shown below



Hence, the correct answer is Option B

Question 18

Arrange the following activities in a logical and meaningful order.

1. Return journey
2. Travel arrangements
3. Hotel stay
4. Sightseeing
5. Reaching destination

A 2, 5, 3, 1, 4

B 3, 2, 5, 4, 1

C 2, 5, 3, 4, 1

D 5, 3, 4, 2, 1

Answer: C

Explanation:

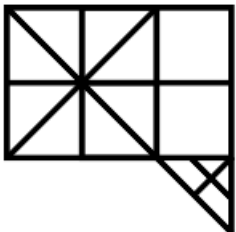
Travel arrangements should be made first for a journey. Then after reaching the destination, one will book a hotel and stay in hotel. After that they will plan for sightseeing. Then at last it will be return journey.

∴ The meaningful order of the given activities are 2,5,3,4,1

Hence, the correct answer is Option C

Question 19

How many triangles are present in the given figure?



A 22

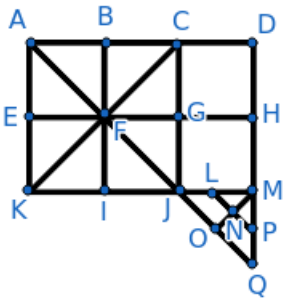
B 25

C 23

D 24

Answer: D

Explanation:



The different triangles in the given figure is AFE, EFK, KFI, IFJ, JFG, GFC, CFB, BFA, AFK, KFJ, JFC, CFA, AJK, AJC, CJK, CAK, MNL, MNP, MLP, MOJ, MOQ, MJQ, QHF, QDA

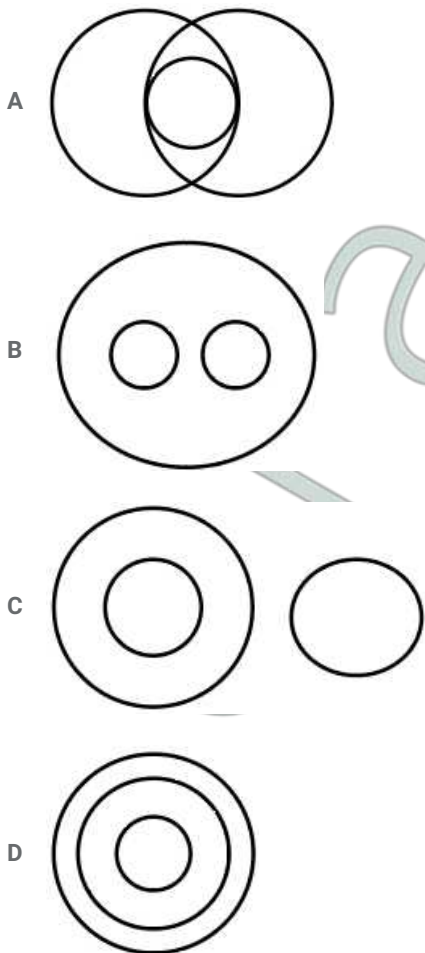
∴ Number of triangles in the given figure = 24

Hence, the correct answer is Option D

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Question 20

Select the Venn diagram that best illustrates the relationship between the following classes.
Fuel, Diesel, Liquid



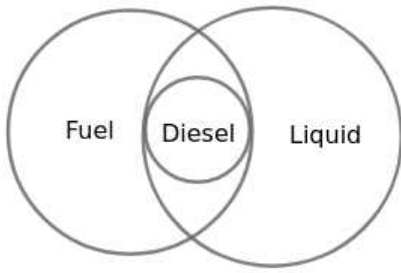
Answer: A

Explanation:

Diesel is a fuel and Diesel is a liquid, so diesel is part of both fuel and liquid as shown in figure

But all fuels may not be Liquids and all liquids may not be fuels

∴ The Venn diagram that best illustrates the relationship between them is



Hence, the correct answer is Option A

Question 21

Which number will replace the question mark (?) in the following series?
16, 18, 21, 26, 33, ?

- A 44
- B 45
- C 46
- D 43

Answer: A

Explanation:

- 18 - 16 = 2
- 21 - 18 = 3
- 26 - 21 = 5
- 33 - 26 = 7

The difference between the consecutive numbers of the series is a prime number series and the next prime number is 11

⇒ Next number of the series = 33 + 11 = 44

Hence, the correct answer is Option A

Question 22

In a code language, VERBATIM is written as EUHYPLWD. How will SALESMAN be written as in that language ?

- A OHVDDQVP
- B HODVQDPV
- C VDOHQDPV
- D HODVVPDQ

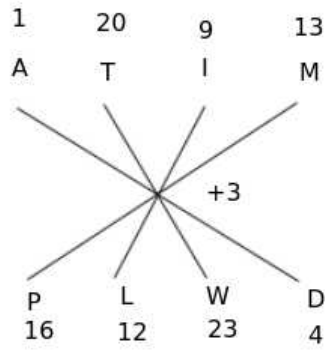
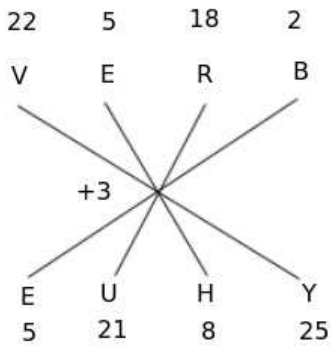
Answer: B

Explanation:

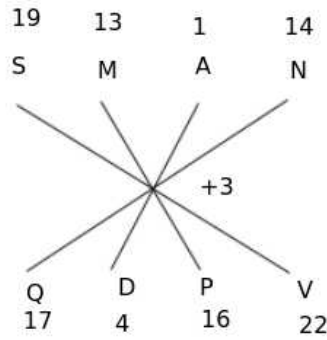
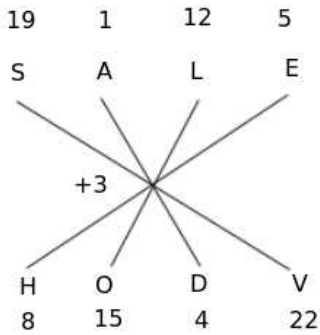
Given,

VERBATIM is written as EUHYPLWD in the code language

The logic is shown in the below figure



Similarly



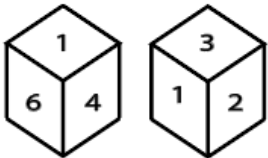
∴ SALESMAN will be written as HODVQDPV in the code language

Hence, the correct answer is Option B

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Question 23

Two different positions of the same dice are shown below, the six faces of which are numbered 1 to 6. Find the number on the face opposite to the one having '5'.



- A 3
- B 4
- C 1
- D 2

Answer: C

Explanation:

From the first position of the dice, 1 is not opposite to 4 and 6

From the second position of the dice, 1 is not opposite to 2 and 3

⇒ 1 is opposite to the remaining number 5

∴ 1 is the number on the face opposite to the one having '5'

Hence, the correct answer is Option C

Question 24

Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

- All purses are rupees.
- Some rupees are coins.

Conclusions:

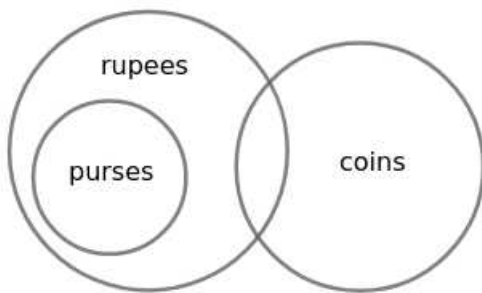
- I. Some purses are coins.
- II. No purse is coin.
- III. No rupee is coin.

- A Only Conclusion I and III follow.
- B Only Conclusion I and II follow.
- C Only Conclusion II and III follow.
- D Either Conclusion I or II follows.

Answer: D

Explanation:

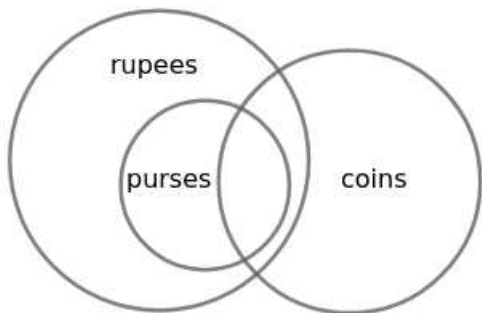
From the given statements, the basic diagram is



I. Some purses are coins

From the basic diagram, No purse is coin. Hence Conclusion I do not follow.

II. No purse is coin



From the above possibility diagram, Some purses are coins. Hence Conclusion II do not follow.

Both conclusions are false but when Conclusion I is false Conclusion II is true, when Conclusion I is true Conclusion II is false.

∴ Either Conclusion I or Conclusion II follows the given statements

III. No rupee is coin

From the basic diagram, Some rupees are coins. Hence Conclusion III do not follow.

Hence, the correct answer is Option D

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General knowledge

Instructions

For the following questions answer them individually

Question 26

In which state is the Kamakhya Temple situated?

- A Jharkhand
- B Chhattisgarh
- C Assam
- D Arunachal Pradesh

Answer: C

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Question 27

Who was the coach of the Indian Under-19 men's cricket team, which won the Under- 19 World Cup 2018 ?

- A Anil Kumble
- B Lalchand Rajput
- C Rahul Dravid
- D Robin Singh

Answer: C

Question 28

Which of the districts listed as options is not one of the three districts in the Chambal division of the state of Madhya Pradesh?

- A Sheopur
- B Morena
- C Bhind
- D Chhindwara

Answer: D

Question 29

Which part of the human body gets affected by the illness called osteoporosis?

- A Brain
- B Lungs
- C Kidney
- D Bones

Answer: D

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Question 30

What is the SI unit of electrical resistance?

- A Ampere
- B Ohm
- C Mole
- D Volt

Answer: B

Question 31

Which of the following countries will host the World Leaders Conference to Combat Anti-Semitism in October 2020?

- A Sweden
- B Belgium
- C Denmark
- D Norway

Answer: A

Question 32

Jadugora, in Singhbhum district, Jharkhand is an important mine for which of the following?

- A Coal
- B Uranium
- C Manganese
- D Emerald

Answer: B

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Question 33

Who among the following is called the 'father of supercomputing'?

- A Alan Perlis
- B Seymour Cray
- C Ken Thompson
- D Vint Cerf

Answer: B

Question 34

A company that has been founded after 2003 and that has a current valuation of more than 1 billion USD is referred to as in the industry by which term?

- A Stratosphere Startup Company
- B Unicorn Startup Company
- C 5th Gear Startup Company
- D Blue Moon Startup Company

Answer: B

Question 35

In February 2018, _____ was appointed as the first independent female director of ICC.

- A Indra Nooyi
- B Chanda Kochhar
- C Indra Jai Singh
- D Nita Ambani

Answer: A

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Question 36

In which state is 'Tarnetar' fair celebrated annually?

- A Madhya Pradesh
- B Manipur
- C Gujarat
- D Telangana

Answer: C

Question 37

Who among the following Australian cricket players was NOT banned by Cricket Australia for ball tampering in 2018?

- A David Warner
- B Cameron Bancroft
- C Steve Smith
- D Glenn Maxwell

Answer: D

Question 38

According to Article 243 V of the Constitution of India, the minimum age requirement for becoming a member of a Municipality is _____.

- A 28 years
- B 21 years
- C 24 years
- D 32 years

Answer: B

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Question 39

In which year was the Non-Cooperation Movement launched?

- A 1919
- B 1856
- C 1920
- D 1877

Answer: C

Question 40

Who was affectionately called 'The Grand Old Man of India'?

- A Lal Bahadur Shastri
- B Dadabhai Naoroji
- C Bipin Chandra Pal
- D Rajendra Prasad

Answer: B

Question 41

When is the World Thyroid Day observed every year?

- A 25th May
- B 15th January
- C 25th October
- D 5th September

Answer: A

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Question 42

Which of the following states is the biggest Jute producer in India?

- A Karnataka
- B Rajasthan
- C West Bengal
- D Nagaland

Answer: C

Question 43

The Bacille Calmette-Guerin vaccine (popularly called BCG vaccine) is a vaccine to prevent which of these diseases?

- A Polio
- B Tuberculosis
- C Jaundice
- D Typhoid

Answer: B

Question 44

In the context of computers, what is the full form of PDF?

- A PowerPoint Document Format
- B Portable Document Format
- C Portable Details Format
- D Personal Document Format

Answer: B

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Question 45

Who among the following won an award in the 'Best Actor (Female)' category at the 64th Filmfare Awards held in 2019?

- A Janhvi Kapoor
- B Alia Bhatt
- C Neena Gupta
- D Sara Ali Khan

Answer: B

Question 46

In May 2019, _____, an Indian Council of Medical Research (ICMR) professor, was awarded the '2019 Dr Lee Jong-wook Memorial Prize for Public Health' at the 72nd World Health Assembly in Geneva.

- A Alagarasu Kalichamy
- B Seema Sahay
- C Balram Bhargava
- D Ajay Vir Singh

Answer: C

Question 47

Which country houses the headquarters of the intergovernmental organisation, 'The International Bureau of Weights and Measures'?

- A Switzerland
- B Austria
- C Belgium
- D France

Answer: D

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Question 48

Which one of the following statements about gratuity is NOT CORRECT?

- A Gratuity can be paid before the completion of five years of the death of an employee or if he has become disabled due to accident or disease.
- B A person is eligible to receive gratuity only if he has completed minimum seven years of service with an organisation.
- C Gratuity is given by the employer to his/her employee for the services rendered by him/her during the period of employment.
- D Gratuity is usually paid at the time of retirement but it can be paid before retirement provided certain conditions are met.

Answer: B

Question 49

Which of the following airports was crowned the 'World's Best Airport' for the seventh time in a row by the Skytrax World Airport Awards 2019 ?

- A Changi Airport
- B Indira Gandhi International Airport
- C Chhatrapati Shivaji Maharaj International Airport
- D Haneda International Airport

Answer: A

Question 50

Which of the following words was inserted in the Preamble by the 42nd Amendment of the Constitution of India?

- A Political

- B Economic
- C Belief
- D Integrity

Answer: D

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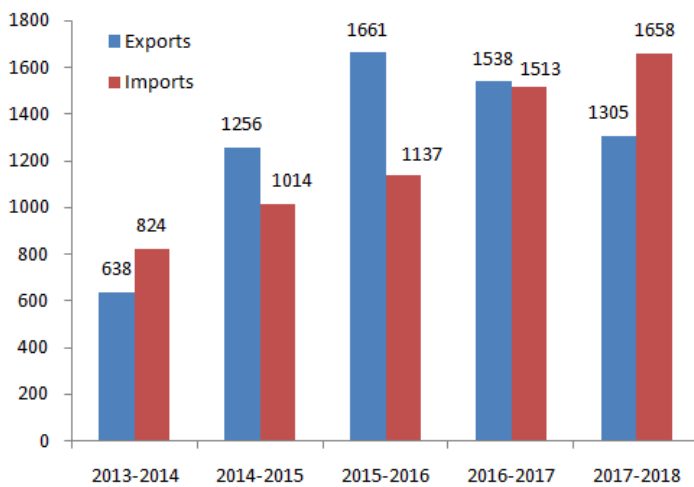
Quant

Instructions

For the following questions answer them individually

Question 51

The given Bar Graph presents the Imports and Exports of an item (in tonnes) manufactured by a company for the five financial years, 2013-2014 to 2017-2018.



In which financial year, total of Exports and Imports is the highest ?

- A 2016-2017
- B 2017-2018
- C 2014-2015
- D 2015-2016

Answer: A

Explanation:

total of Exports and Imports=638+824=1462

total of Exports and Imports=1256+1014=2270

total of Exports and Imports=1661+1137=2798

total of Exports and Imports=1538+1513=3051

total of Exports and Imports=1305+1658=2963

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Question 52

If $2 \sin^2 \theta + 5 \cos \theta - 4 = 0$, $0^\circ < \theta < 90^\circ$, then the value of $\cot \theta + \operatorname{cosec} \theta$ is:

- A $\frac{\sqrt{3}}{2}$
- B $\sqrt{3}$
- C $\frac{2}{\sqrt{3}}$
- D $\frac{3\sqrt{3}}{2}$

Answer: B

Question 53

If $\cos \theta = \frac{2p}{p^2+1}$, ($p \neq \pm 1$) then $\cos \theta$ is equal to:

- A $\frac{2p}{p^2+1}$
- B $\frac{p^2-1}{2p}$
- C $\frac{p^2+1}{p^2-1}$
- D $\frac{2p}{p^2-1}$

Answer: C

Question 54

Three numbers are in the ratio $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$. The difference between the greatest and the smallest number is 27. The average of the three numbers is:

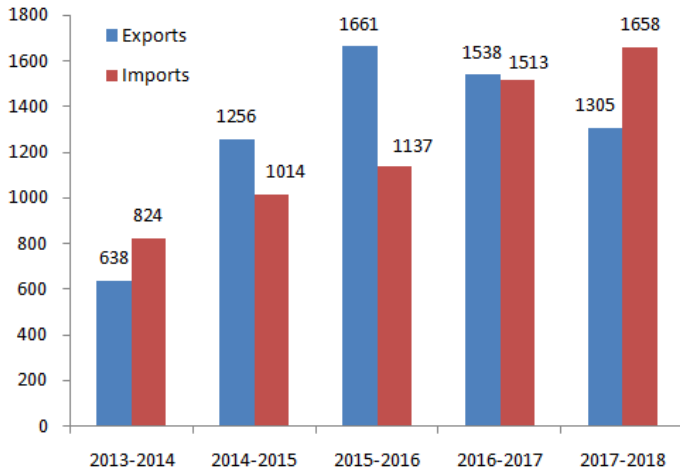
- A 81
- B 40
- C 69
- D 54

Answer: C

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Question 55

The given Bar Graph presents the Imports and Exports of an item (in tonnes) manufactured by a company for the five financial years, 2013-2014 to 2017-2018.



What is the ratio of total Imports to total Exports during the five financial years ?

- A 4175: 4011
- B 4011: 4175
- C 3073: 3199
- D 3199: 3073

Answer: C

Explanation:

Total import=638+1256+1661+1538+1305=6398

Total Export=824+1014+1137+1513+1658=6146

Ratio=6146:6398

=3073: 3199

Question 56

If a 10-digit number $6220x558y2$ is divisible by 88, then the value of $(5x + 5y)$ is:

- A 45
- B 25
- C 55
- D 20

Answer: D

Question 57

A certain amount invested at a certain rate, compounded annually, grows to an amount in five years, which is a factor of 1.191016 more than to what it would have grown in two years. What is the rate percentage?

- A 6
- B 4
- C 5

D 8

Answer: A

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Question 58

If $12 \cot^2 \theta - 31 \operatorname{cosec} \theta + 32 = 0$, $0^\circ < \theta < 90^\circ$, then the values of $\sin \theta$ will be:

A $\frac{4}{5}, \frac{3}{4}$

B $\frac{5}{4}, \frac{4}{3}$

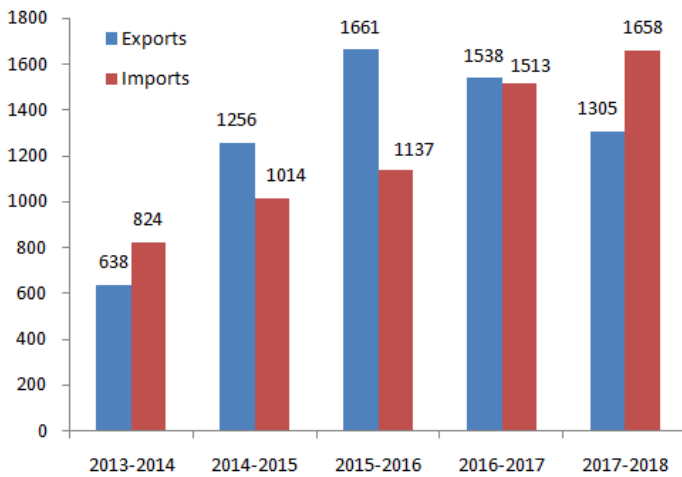
C $\frac{1}{3}, \frac{3}{2}$

D $\frac{2}{3}, \frac{1}{4}$

Answer: A

Question 59

The given Bar Graph presents the Imports and Exports of an item (in tonnes) manufactured by a company for the five financial years, 2013-2014 to 2017-2018.



In which financial year the percentage increase in Imports is the highest in comparison to its previous financial year?

A 2014-2015

B 2015-2016

C 2016-2017

D 2017-2018

Answer: C

Explanation:

Import in 2016=1137

Import in 2017=1513

difference=1513-1137=376

$\% = \frac{376}{1137} \times 100 = 33\%$

Question 60

The simplified value of $15 \text{ of } 8 + 6 + [(27 - 3) \div 6 + 4]$ is:

- A 128
- B 134
- C 136
- D 130

Answer: B

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Question 61

In a $\triangle ABC$, the bisectors of $\angle B$ and $\angle C$ meet at point O within the triangle. If $\angle BOC = 148^\circ$, then the measure of $\angle A$ is:

- A 87°
- B 29°
- C 116°
- D 58°

Answer: C

Question 62

A circle is inscribed in a triangle ABC . It touches sides AB , BC and AC at points P , Q and R respectively. If $BP = 9$ cm, $CQ = 10$ cm and $AR = 11$ cm, then the perimeter (in cm) of the triangle $\triangle ABC$ is:

- A 72.5
- B 57.5
- C 60
- D 75

Answer: C

Question 63

A number is decreased by 30%, then increased by 30%, then further increased by 30%. What is the net increase/decrease percent in the number (correct to the nearest integer)?

- A 19% decrease
- B 19% increase
- C 18% increase
- D 18% decrease

Answer: C

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Question 64

If $a^2 + b^2 = 135$ and $ab = 7$, ($a > 0, b > 0$) then the value of $(a^3 - b^3)$ is:

- A 1562
- B 1600
- C 1680
- D 1350

Answer: A

Question 65

What is the area of a rhombus (in cm^2) whose side is 20 cm and one of the diagonals is 24 cm ?

- A 396
- B 392
- C 350
- D 384

Answer: D

Question 66

If $x^4 + x^{-4} = 1442$, ($x > 0$) then the value of $x + x^{-1}$ is:

- A $\sqrt[4]{10}$
- B $\sqrt[3]{10}$
- C $\sqrt[3]{10}$
- D 15

Answer: B

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Question 67

9 years ago, the average age of a family of five members was 33 years. Now, three new members join whose ages are in ascending order with consecutive gaps of 8 years. If the present average age of the family is the same as it was 9 years ago, what is the age (in years) of the eldest new member?

- A 29
- B 26
- C 35
- D 17

Answer: B

Question 68

A car covers 25 km at a uniform speed. If the speed had been 8 km/h more, it would have taken 10 hours less for the same journey. What is the speed of the car (in km/h)?

- A 4
- B 3
- C 2.5
- D 2

Answer: D

Question 69

A, B and C can complete a piece of work in 5, 20 and 60 days respectively. Working together, they can complete the same work in how many days?

- A $5\frac{3}{4}$
- B $5\frac{1}{4}$
- C $3\frac{3}{4}$
- D $3\frac{1}{4}$

Answer: C

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Question 70

A man bought 2 articles for ₹3050 each. He sold one article at 10% loss and another at 20% profit. The total profit/loss percentage he earned is:

- A 10% loss
- B 5% loss
- C 5% profit
- D 10% profit

Answer: C

Explanation:

Two articles for 3050 each

For first article

20% profit or gain means. SP = cost price + 20% of CP (cost price)

$$= 3050 + \frac{20}{100} \times 3050$$

$$= 3050 + 610 = 3660$$

Similarly for

Second article

10% loss means SP (SELLING PRICE) = 3050 (CP) - (subtracting because it is loss) 10% of CP

$$= 3050 - \frac{10}{100} \times 3050 = 2745$$

now you asked overall gain or loss

So total money spent = 3050 + 3050 = 6100

total money got = 3660 + 2745 = 6405

So clearly it is profit or gain

Now how much profit you gain

= total money got - total money spend

= 6405 - 6100 = 305

now gain percentage = $\frac{\text{profit}}{\text{CP}} \times 100 = \frac{305}{6100} \times 100 = 5\%$ gain

Question 71

There was 25% off on bags. A lady bought a bag and got additional 20% discount for paying in cash. She paid ₹480. What was the price tag (in ₹) on the bag?

A 950

B 825

C 800

D 750

Answer: C

Question 72

If $(2x - 7)^3 + (2x - 8)^3 + (2x - 3)^3 = 3(2x - 7)(2x - 8)(2x - 3)$, then what is the value of x ?

A 3

B 4

C 1

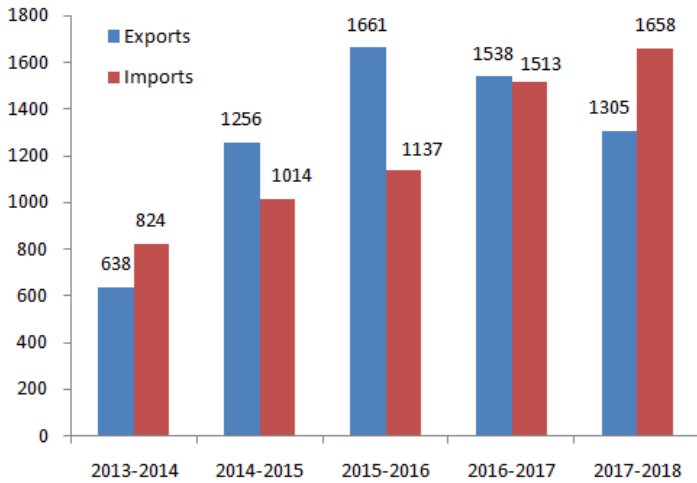
D 2

Answer: A

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Question 73

The given Bar Graph presents the Imports and Exports of an item (in tonnes) manufactured by a company for the five financial years, 2013-2014 to 2017-2018.



What is the average of Export (in tonnes) during the five financial years ?

- A 1279.5
- B 1552.4
- C 1025.9
- D 1279.6

Answer: D

Explanation:

Total Export (in tonnes) during the five financial years = $638 + 1256 + 1661 + 1538 + 1305 = 6398$

Average = $\frac{6398}{5} = 1279.6$

Question 74

Two circles of radii 7 cm and 9 cm intersect at the points A and B. If AB = 10 cm and the distance between the centres of the circle is x cm, then the value of x is:

- A $2(\sqrt{6} + \sqrt{7})$
- B $2(\sqrt{6} + \sqrt{14})$
- C $(\sqrt{6} + \sqrt{14})$
- D $(\sqrt{6} + 7)$

Answer: B

Question 75

In triangle ABC, D and E are two points on the sides AB and AC respectively so that DE \parallel BC and $\frac{AD}{BD} = \frac{5}{6}$. The ratio of the area of $\triangle ABC$ to the area of trapezium DECB is:

- A 96 : 121
- B 121 : 96
- C 36 : 121

D 121 : 36

Answer: B

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English

Instructions

For the following questions answer them individually

Question 76

Select the wrongly spelt word.

A discern

B consize

C nurture

D particle

Answer: B

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Question 77

Select the most appropriate meaning of the given idiom.

To take the bull by the horns

A to escape unhurt

B to enjoy risky sports

C to face danger boldly

D to act foolishly

Answer: C

Question 78

Select the most appropriate word for the group of words.

One who is difficult to please

A fastidious

B fatalist

C fanatic

D feminist

Answer: A

Question 79

In the sentence identify the segment which contains the grammatical error.

Despite of his efforts he couldn't get a decent job.

- A Despite of
- B he couldn't get
- C his efforts
- D a decent job.

Answer: A

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Question 80

Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. This code contains information about its nature.
- B. Each living organism has a DNA code.
- C. If this genetic material is altered, it would alter the organism.
- D. The nature of an individual is determined by the unique genetic material in the code.

- A DBCA
- B DCAB
- C BCDA
- D BADC

Answer: D

Question 81

Select the most appropriate passive form of the given sentence.
She answered fifty questions in one hour.

- A Fifty questions were answered by her in one hour.
- B Fifty questions have been answered by her in one hour.
- C Fifty questions are answered by her in one hour.
- D Fifty questions were being answered by her in one hour.

Answer: A

Question 82

Select the most appropriate meaning of the given idiom.
Gift of the gab

- A have the ability to adapt
- B receive a precious gift
- C achieve sudden greatness
- D have the talent to speak well

Answer: D

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Instructions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Comprehension:

In July, 1937, the Japanese used an incident to provoke a war. They (1) _____ China and occupied a major portion (2) _____ it. Chinese and Japanese (3) _____ clashed in northern China, throwing the entire country into (4) _____. Millions of people were shot (5) _____ death.

Question 83

Select the most appropriate option to fill in blank number 1

- A persuaded
- B invaded
- C included
- D extended

Answer: B

Question 84

Select the most appropriate option to fill in blank number 2

- A from
- B of
- C for
- D by

Answer: B

Question 85

Select the most appropriate option to fill in blank number 3

- A troops
- B caravans
- C crowds
- D mobs

Answer: A

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Question 86

Select the most appropriate option to fill in blank number 4

- A progress

- B tranquility
- C turmoil
- D peace

Answer: C

Question 87

Select the most appropriate option to fill in blank number 5

- A to
- B on
- C for
- D in

Answer: A

Instructions

For the following questions answer them individually

Question 88

Select the most appropriate word for the group of words.
Something that catches fire easily

- A infallible
- B inflammable
- C incredible
- D inflatable

Answer: B

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Question 89

Select the most appropriate synonym of the given word.

THRIFTY

- A discreet
- B grand
- C rigid
- D frugal

Answer: D

Question 90

Select the most appropriate indirect form of the given sentence.

Seema said to her daughter, "Don't go near the well."

- A Seema told her daughter that don't go near the well.
- B Seema said her daughter you shouldn't go near the well.
- C Seema requested to her daughter to go near the well.
- D Seema warned her daughter not to go near the well.

Answer: D

Question 91

Select the most appropriate antonym of the given word.

PROSPERITY

- A adversity
- B simplicity
- C affinity
- D nobility

Answer: A

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Question 92

Fill in the blank with the most appropriate word.

During the curfew the army was _____ at strategic locations.

- A supplied
- B deployed
- C dispersed
- D employed

Answer: B

Question 93

Select the most appropriate antonym of the given word.

CENSURE

- A criticism
- B shame
- C praise
- D distrust

Answer: C

Question 94

Select the most appropriate synonym of the given word.

STERN

- A mellow
- B strict
- C shrewd
- D proud

Answer: B

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Question 95

In the sentence identify the segment which contains the grammatical error.
Darkness spilled like ink and began to spread at everything.

- A like ink
- B and began to
- C spread at everything
- D Darkness spilled

Answer: C

Instructions

Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution.

Question 96

He persisted to do that he thought was right.

- A for doing this which he thought
- B No substitution
- C to do what he thinks
- D in doing what he thought

Answer: D

Question 97

We are going to have pleasure in accepting your kind invitation.

- A We are having pleasure
- B No substitution
- C We will have a pleasure
- D We have pleasure

Answer: D

For the following questions answer them individually

Question 98

Fill in the blank with the most appropriate word.
The man _____ heavy losses in his investments.

- A earned
- B incurred
- C reaped
- D raised

Answer: B

Question 99

Select the correctly spelt word.

- A Novmber
- B February
- C October
- D Janury

Answer: B

Question 100

Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. The fire destroyed many buildings which were rebuilt with red clay tiles.
- B. In the year 1689, a huge fire engulfed the city.
- C. Prague in the Czech Republic is known for its striking red roofs.
- D. Even now, traditional red roofs are included in any repairs or new construction.

- A BADC
- B CADB
- C DCBA
- D CBAD

Answer: D

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