



SSC CHSL 2 July 2019 Shift-1

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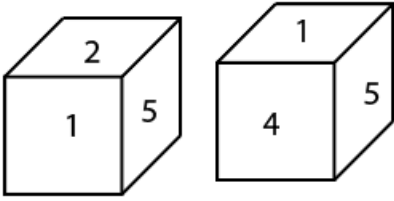
Reasoning

Instructions

For the following questions answer them individually

Question 1

Two different positions of the same dice are shown. Find the number opposite to the face having 4.



A 2

B 3

C 1

D 6

Answer: A

Explanation:

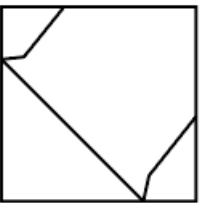
We shall assume the dice in fig. (ii) to be rotated so that the 5 appear at the same position as in fig. (i) and 1 appears at the same position as in fig. (i) means on Front face . Then, from the, two figures, 2 appear on the top face and 4 appear on the Bottom face.

Since, these two faces are opposite to each other, therefore, 2 is opposite of 4.

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Question 2

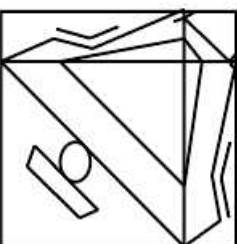
Select the option in which the given figure is embedded.

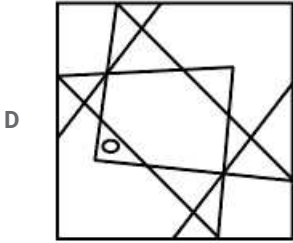
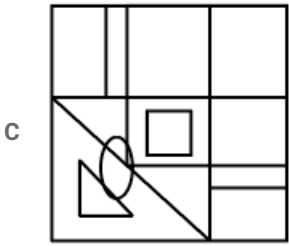


A



B

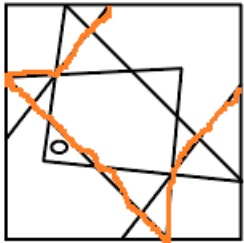




Answer: D

Explanation:

Figure is embedded in option D



Question 3

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

ab_ba_babd_acb_bdba_b

- A dcbac
- B acbcd
- C dcabc
- D cdabc

Answer: A

Explanation:

Total 21 letters are there we will make the group of 7 letters

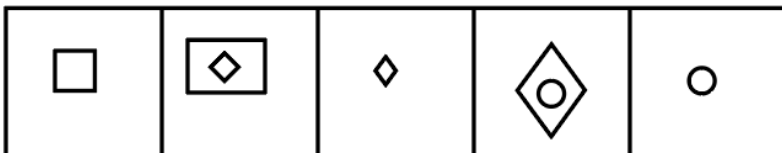
and the we will put the options in the gap and check the series.

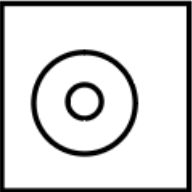



So, when we put options A letter in the gap then it is completing the series

(a b d b a c b) (a b d b a c b) (a b d b a c b)

Question 4

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



- A 
- B 
- C 
- D 

Answer: D

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Question 5

In a code language, PERMUTATION is written as IBKFRMXMFLG. How will PUBLICSECTOR be written as in that language?

- A IRVEFVLBVMLK
- B ICUFEVLBVNLK
- C ICUFEVLBVMLJ
- D IRUEFVLBVMLK

Answer: D

Explanation:

Code for a vowel will be letter which is Vowel - 3

Code for a consonant will be a letter which is Consonant - 7

Code of each alphabet is given ex- P=P-7=I, E=E-3=B, R=R-7=K and so on. So we will take the same code to find the code of PUBLICSECTOR and our answer will be option D.

Similarly, For PUBLICSECTOR,

P-7 = I

U-3 = R

B-7 = U

L-7 = E

I-3 = F

C-7 = V

S-7 = L

E-3 = B
 C-7 = V
 T-7 = M
 O-3 = L
 R-7 = K
 Hence, PUBLICSECTOR : IRUEFVLBVMLK

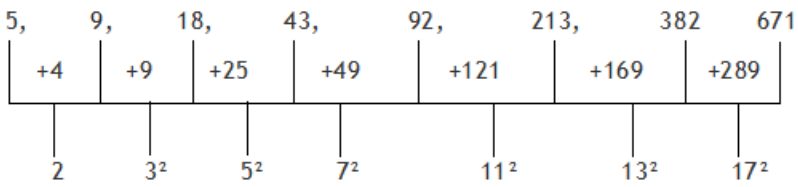
Question 6

Which number will replace the question mark (?) in the following series?
 5, 9, 18, 43, 92, 213, 382, ?

- A 328
- B 382
- C 617
- D 671

Answer: D

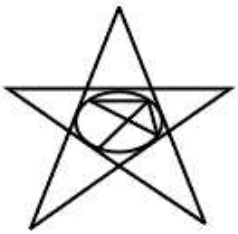
Explanation:



2, 3, 5, 7, 11, 13 and 17 are prime numbers

Question 7

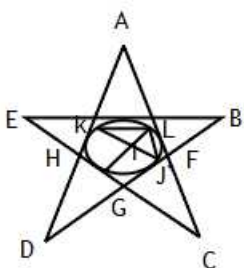
How many triangles are present in the following figure ?



- A 14
- B 12
- C 13
- D 10

Answer: C

Explanation:





If start shape is like the above figure the total triangles will be always 10.

Total numbers of triangle = AKL, BLF, CFG, DHG, HEK, AJD, CEL, BDK, ACK, BEG, JKL, IKL, IJK = 13.

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Question 8

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

A LOPK

B MNQJ

C CXGT

D GSVE

Answer: D

Explanation:

Sum of alphabetical orders of all the letters of each option except option D are 54.

Option D = GSVE = $7+19+22+5=53$

So, option D is odd.

Question 9

Select the set in which the numbers are related in the same way as are the numbers of the following set. (5, 2, 30)

A (4, 3, 28)

B (5, 1, 29)

C (9, 2, 87)

D (7, 8, 114)

Answer: D

Explanation:

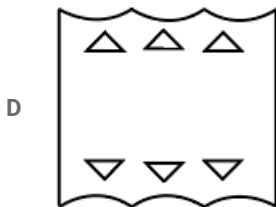
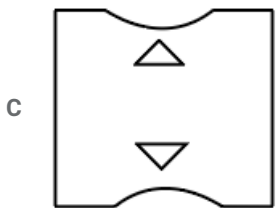
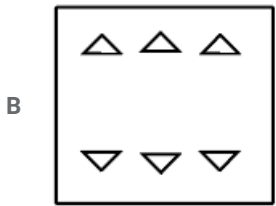
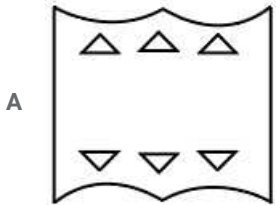
$(5, 2, 30) = 5^2 + 2^2 + 1 = 25 + 4 + 1 = 30$

$(7, 8, 114) = 7^2 + 8^2 + 1 = 49 + 64 + 1 = 114$

Question 10

A paper is folded and cut as shown in the following figures. How will it appear when unfolded ?





Answer: D

Explanation:

If we see the figure from last then we observe that figure of option D will appear when unfolded.

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Question 11

Select the set in which the numbers are related in the same way as are the numbers of the following set.
(4, 10, 23)

A (7, 23, 49)

B (4, 12, 21)

C (2, 6, 15)

D (3, 7, 17)

Answer: C

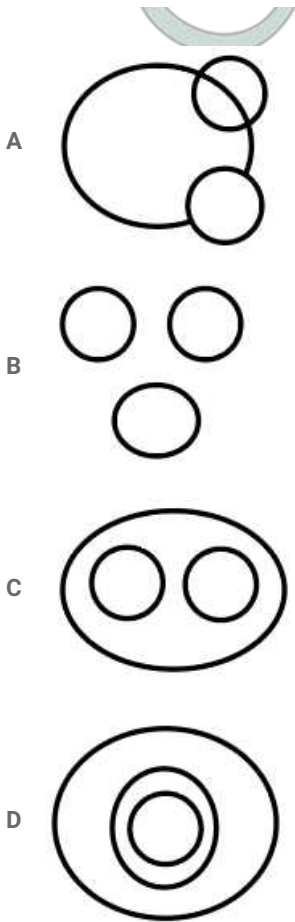
Explanation:

(4, 10, 23) Pattern is $4 \times 2 + 2 = 10$, $10 \times 2 + 3 = 23$

(2, 6, 15) = $2 \times 2 + 2 = 6$, $6 \times 2 + 3 = 15$

Question 12

Select the Venn diagram that best illustrates the relationship between the following classes.
Raw material, Labourers, Machines



Answer: B

Explanation:

Raw materials, Labourers and machines are different from each other.

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.

MARKET : IEONCV :: THERMO : _____

- A JKCTKQ
- B JLZUKQ
- C PLDSKQ
- D PLBUKQ

Answer: D

Explanation:

M	A	R	K	E	T	T	H	E	R	M	O
-4	+5	-3	+3	-2	+2	-4	+5	-3	+3	-2	+2
I	E	O	N	C	V	P	L	B	U	K	Q

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Question 14

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.
Spoke : Wheel

- A Printer : Computer
- B Word : Sentence
- C Tree : Branch
- D Square : Side

Answer: B

Explanation:

Combination of spoke is called wheel in the same way combination of words is called sentence.

Question 15

Select the option that is related to the third number in the same way as the second number is related to the first number.

54 : 41 :: 32 : ____

- A 17
- B 13
- C 11
- D 29

Answer: B

Explanation:

$$54 : 41 = 5^2 + 4^2 = 25 + 16 = 41$$

$$32 : 13 = 3^2 + 2^2 = 9 + 4 = 13$$

Question 16

In a family of 5 members, X is the sister of Y. M has two children and he is the son of E, who is the father-in-law of H. H has only one son. Y is not the grand-daughter of E. How is X related to E?

- A Grandson
- B Daughter
- C Sister
- D Grand-daughter

Answer: D

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Question 17

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

- A Purse
- B Suitcase
- C Bag
- D Carpet

Answer: D

Explanation:

Except carpet all the given options are type of luggage.

Question 18

Rahul has ₹340 in the denominations of ₹2 notes, ₹5 notes and ₹10 notes. The number of notes of each denomination is equal. What is the total number of notes that Rahul has?

- A 80
- B 20
- C 40
- D 60

Answer: D

Explanation:

Let the each denomination note be Rs x

According to the question,

$$2x + 5x + 10x = 340$$

$$x = \frac{340}{17} = 20$$

Total number of notes = 20 + 20 + 20 = 60.

Question 19

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

$$24 \div 2 + 13 - 54 \times 2 = 34$$

- A $-$ and \times
- B $+$ and \times
- C $-$ and \div
- D \times and \div

Answer: D

Explanation:

$$24 \div 2 + 13 - 54 \times 2 = 34$$

After interchanging \times and \div :

$$24 \times 2 + 13 - 54 \div 2 = 34$$

$$34 = 34$$

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Question 20

Arrange the following words in a logical and meaningful order.

1. Promotion
2. Application
3. Job appointment
4. Written test
5. Merit list

A 2, 4, 5, 3, 1

B 2, 5, 4, 3, 1

C 4, 2, 5, 3, 1

D 3, 2, 4, 1, 5

Answer: A

Explanation:

Given words are the sequence of Job. So meaningful order is the option A.

Question 21

If MASTER is coded as 26138402536 and GOVIND is coded as 142254481288, then how will BACKSPACE be coded as?

A 4172393337125

B 5172339317125

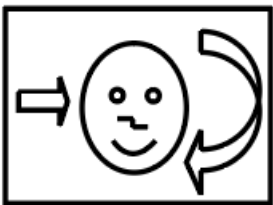
C 5172933373215

D 4162238321625

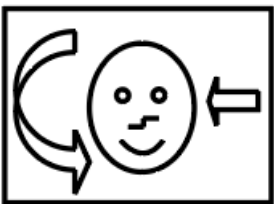
Answer: D

Question 22

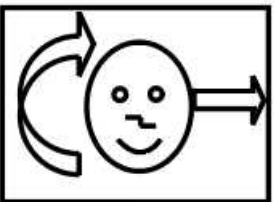
Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.



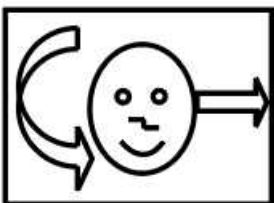
A



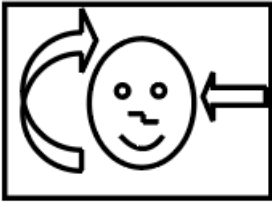
B



C



D



Answer: A

Explanation:

If the mirror is placed at right of the figure then right will becomes left and left will becomes right. Top and bottom will remain same.

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Question 23

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 9368

B 4147

C 7298

D 8205

Answer: C

Explanation:

9368 pattern is $9 \times 8 = 72$ and all the option except option C is following the same pattern.

So, option C is odd.

Question 24

Three 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:

Some essays are poems.

Some poems are directors.

All directors are singers.

Conclusions:

I. Some directors are poems.

II. Some singers are essays.

III. Some singers are poems.

A Only conclusions I and III follow.

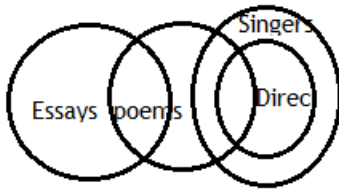
B Only conclusions I and II follow.

C Only conclusions II and III follow.

D Only conclusion I follows.

Answer: A

Explanation:



- I. Some directors are poems follows because some essays are poems and some poems are directors.
- II. Some singers are essays not follows because there is no relation bewteen singer and essays in given statements.
- III. Some singers are poems follows because all directors are singers, some poems are directors and some essay are poems.

Question 25

'Cardiologist' is related to 'Heart' in the same way as 'Chiropractor' is related to '_____'.

- A Foot
- B Skin
- C Chest
- D Joints

Answer: D

Explanation:

Cardiologist is the specialisation of doctor in which treatment of heart is done in the same way Chiropractor is the specialisation in which treatment of joints is done.

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General knowledge

Instructions

For the following questions answer them individually

Question 26

Which of the following metals has an ore named Galena?

- A Copper
- B Nickel
- C Iron
- D Lead

Answer: D

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Question 27

Which of the following terms refers to the running down or payment of a loan in instalments?

- A Amortisation
- B Backwardation
- C Credit creation

D Discounted cashflow

Answer: A

Question 28

In June 2019, PepsiCo India proposed to invest \$70 million to build a food manufacturing plant in:

A Uttar Pradesh

B Gujarat

C Madhya Pradesh

D Maharashtra

Answer: A

Question 29

During the passage of the Royal Titles Act 1876, the office of the British Prime Minister was occupied by:

A William Ewart Gladstone

B Benjamin Disraeli

C Arthur Balfour

D John Russell

Answer: B

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Question 30

Which of the following states shares the longest boundary with China?

A Sikkim

B Himachal Pradesh

C Arunachal Pradesh

D Uttarakhand

Answer: C

Question 31

A region of computer memory where frequently accessed data can be stored for rapid access is called:

A Cache

B Cookie

C Token

D Plug-in

Answer: A

Question 32

Which of the following states separates Nepal from Bhutan?

- A Bihar
- B Sikkim
- C Assam
- D Odisha

Answer: B

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Question 33

Who among the following was the first Sayyid ruler of Delhi?

- A Alam Shah
- B Muḥammad Shah
- C Mubārak Shah
- D Khizr Khan

Answer: D

Question 34

Rani-ki-Vav (the Queen's Stepwell), which is in the UNESCO World Heritage List, is located in:

- A Madhya Pradesh
- B Gujarat
- C Rajasthan
- D Uttar Pradesh

Answer: B

Question 35

Who is the director of the film 'PM Narendra Modi'?

- A Tigmanshu Dhulia
- B Hansal Mehta
- C Rakeysh Omprakash Mehra
- D Omung Kumar

Answer: D

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Question 36

In which year was Google incorporated as a private company?

- A 2000
- B 1998
- C 2002
- D 2005

Answer: B

Question 37

Paan Singh Tomar, who was a seven-time national champion, was associated with which of the following sports?

- A Hockey
- B Swimming
- C Steeplechase
- D Shotput

Answer: C

Question 38

The joint process of vapourisation and condensation is called:

- A Sublimation
- B Crystallisation
- C Chromatography
- D Distillation

Answer: D

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Question 39

Who was the captain of the Indian women's Kabaddi team that won silver at the 2018 Asian Games?

- A Payel Chowdhury
- B Shalini Pathak
- C Manpreet Kaur
- D Ritu Negi

Answer: A

Question 40

In the new Union cabinet, the portfolio of Micro, Small and Medium Enterprises was allocated to:

- A Sadananda Gowda
- B Ramvilas Paswan
- C Nitin Jairam Gadkari
- D Narendra Singh Tomar

Answer: C

Question 41

Which of the following are the highest-frequency electro magnetic waves?

- A Gamma Rays
- B Ultraviolet Rays
- C Microwaves
- D Radio Waves

Answer: A

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Question 42

Who among the following is the 2019 winner of the \$100,000 Nine Dots Prize?

- A Shashi Tharoor
- B Chetan Bhagat
- C Annie Zaidi
- D Arundhati Roy

Answer: C

Question 43

Panchavati, a key part of the Valmiki Ramayana is located in which state of India?

- A Maharashtra
- B Tamil Nadu
- C Uttar Pradesh
- D Uttarakhand

Answer: A

Question 44

What is the full form of GSTIN in relation to GST?

- A Goods and Services Tax Identification Note
- B Goods and Services Tax Identification Number

- C Goods and Services Tax Information Number
- D Goods and Services Taxation Income Number

Answer: B

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Question 45

Which of the following political parties was NOT an ally of the BJP-led NDA in 2019 Lok Sabha elections?

- A DMK
- B Asom Gana Parishad
- C AIADMK
- D Shiromani Akali Dal

Answer: A

Question 46

In May 2019, the Government of India approved a new scheme which assures minimum monthly pension to all shopkeepers, retail traders and self employed persons after attaining the age of 60 years. How much is the pension amount?

- A ₹7,000
- B ₹10,000
- C ₹5,000
- D ₹3,000

Answer: D

Question 47

Who among the following is the author of 'Kamayani', the epic poem that is considered as one of the greatest literary works in Hindi?

- A Jaishankar Prasad
- B Premchand
- C Mohan Rakesh
- D Ramdhari Singh Dinkar

Answer: A

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Question 48

On the occasion of 'World No Tobacco Day' on 31 May, which state banned ecigarettes?

- A Gujarat
- B Uttar Pradesh

C Rajasthan

D Assam

Answer: C

Question 49

Who among the following won a silver medal in the equestrian event at the 2018 Asian Games?

A Fouaad Mirza

B Ashish Malik

C Jitender Singh

D Rakesh Kumar

Answer: A

Question 50

The Bhupen Hazarika Setu, also called Dhola-Sadiya Bridge which connects Assam and _____.

A Arunachal Pradesh

B Sikkim

C Meghalaya

D West Bengal

Answer: A

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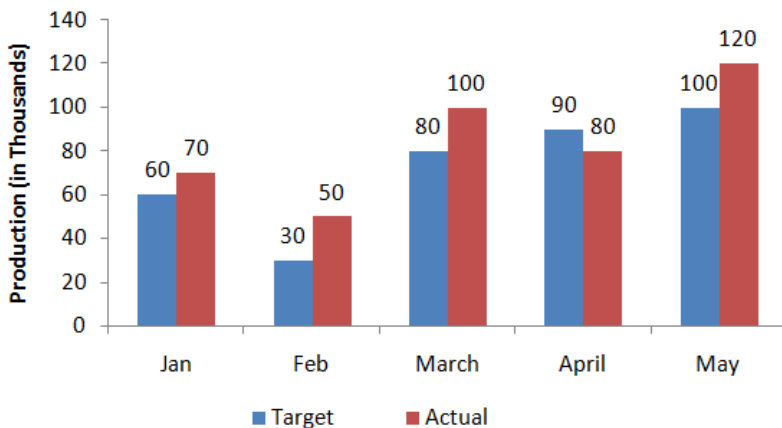
Quant

Instructions

For the following questions answer them individually

Question 51

The given Bar Graph presents the Target and Actual production of AC Machines (numbers in thousands) of a factory over five months.



The actual production of AC Machines in April was what percentage more than the average target production of AC Machines over five months ?

A $11\frac{1}{9}\%$

B $10\frac{1}{9}\%$

C 9%

D 10%

Answer: A

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Question 52

If $\cot \theta = \frac{1}{\sqrt{3}}$, then the value of $\frac{2-\sin^2 \theta}{1-\cos^2 \theta} + (\operatorname{cosec}^2 \theta + \sec \theta)$ is:

A 4

B 7

C 6

D 5

Answer: D

Question 53

A is 20% more than B, B is 25% more than C, C is 60% less than D and D is 20% more than E. Based on the above information, which of the following is true?

A C is 24% less than A.

B E is 28% more than A.

C A is 40% less than D.

D D is 60% less than B.

Answer: C

Explanation:

A is 20% more than B = $\frac{120}{100}$ B = $\frac{6}{5}$ B

In the Same way B is 25% more than C = $\frac{125}{100}$ C = $\frac{5}{4}$ C

C is 60% less than D = $\frac{100-60}{100}$ = $\frac{40}{100}$ = $\frac{2}{5}$ D

B = $\frac{5}{4}$ C

Where C = $\frac{2}{5}$ D

B = $\frac{5}{4} \times \frac{2}{5}$ D

B = $\frac{1}{2}$ D

Substitute B value in A then

A = $\frac{6}{5}$ B

A = $\frac{6}{5} \times \frac{1}{2}$ D

$$A = \frac{3}{5} D$$

$$A = 60\% \text{ of } D$$

Therefore A is 40% less than D

Question 54

Two circles of radii 15 cm and 12 cm intersect each other, and the length of their common chord is 18 cm. What is the distance (in cm) between their centres ?

A $12 + 3\sqrt{7}$

B $15 + \sqrt{7}$

C $12 + 2\sqrt{7}$

D $18 + \sqrt{7}$

Answer: A

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Question 55

The ratio of the incomes of A and B is 2 : 3 and that of their expenditures is 1 : 2. If 90% of B's expenditure is equal to the income of A, then what is the ratio of the savings of A and B?

A 8:7

B 1:1

C 9:8

D 3:2

Answer: A

Explanation:

consider incomes of $A=2x$

consider incomes of $B=3x$

consider Expenditure of $A=y$

consider Expenditure of $B=2y$

In the question given 90% of B's expenditure is equal to the income of A

$$\frac{90}{100} \times 2y = 2x$$

$$\frac{x}{y} = \frac{9}{10}$$

$$x = \frac{9}{10} y$$

Formula to find savings is

Savings = Income - Expenditure

$$\text{Given Income} = \frac{2x}{3x}$$

$$\text{Expenditure} = \frac{y}{2y}$$

$$\text{Savings} = \frac{2x-y}{3x-2y}$$

Substitute x value in the above savings formula then we get

$$\text{Savings} = (2 \times 10^9 y - y) \div (3 \times 10^9 y - 2y)$$

$$\text{Savings} = \frac{8 \div 10}{7 \div 10}$$

Hence savings = 8:7

Question 56

Two concentric circles are of radii 15 cm and 9 cm. What is the length of the chord of the larger circle which is tangent to the smaller circle?

- A 18 cm
- B 24 cm
- C 25 cm
- D 20 cm

Answer: B

Question 57

$\frac{(\sec \theta + \tan \theta)(1 - \sin \theta)}{\operatorname{cosec} \theta(1 + \cos \theta)(\operatorname{cosec} \theta - \cot \theta)}$ is equal to:

- A $\sec \theta$
- B $\operatorname{cosec} \theta$
- C $\sin \theta$
- D $\cos \theta$

Answer: D

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Question 58

If $3\sqrt{3}x^3 - 2\sqrt{2}y^3 = (\sqrt{3}x - \sqrt{2}y)(Ax^2 - Bxy + Cy^2)$, then the value of $(A^2 - B^2 + C^2)$ is:

- A 7
- B 10
- C 1
- D 17

Answer: A

Question 59

Two trains of same length are running on parallel tracks in the same direction at 54 km/h and 42 km/h respectively. The faster train passes the other train in 63 seconds. What is the length (in metres) of each train?

- A 90

- B 81
- C 105
- D 210

Answer: C

Question 60

The value of $\frac{3 \div \{5 - 5 \div (6 - 7) \times 8 + 9\}}{4 + 4 \times 4 \div 4 \text{ of } 4}$ is:

- A $\frac{1}{3}$
- B $\frac{1}{45}$
- C $\frac{1}{90}$
- D $\frac{1}{18}$

Answer: C

Explanation:

Apply BODMAS rule to this type of problems

According to Bodmas rule, if an expression contains brackets ((), {}, []) we have to first solve or simplify the bracket followed by of (powers and roots etc.), then division, multiplication, addition and subtraction from left to right.

$$\begin{aligned} \text{Numerator} &= 3 \div \{5 - 5 \div (6 - 7) \times 8 + 9\} = 3 \div \{5 - 5 \div (-1) \times 8 + 9\} \\ &= 3 \div \{5 + 5 \times 8 + 9\} = 3 \div \{5 + 40 + 9\} \\ &= 54 = 18 \end{aligned}$$

$$\text{Denominator} = 4 + 4 \times 4 \div 4 \text{ of } 4 = 4 + 4 \times 4 \div 16 = 4 + 1 = 5$$

$$\frac{3 \div \{5 - 5 \div (6 - 7) \times 8 + 9\}}{4 + 4 \times 4 \div 4 \text{ of } 4} = \frac{(18)}{5} = \frac{1}{90}$$

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Question 61

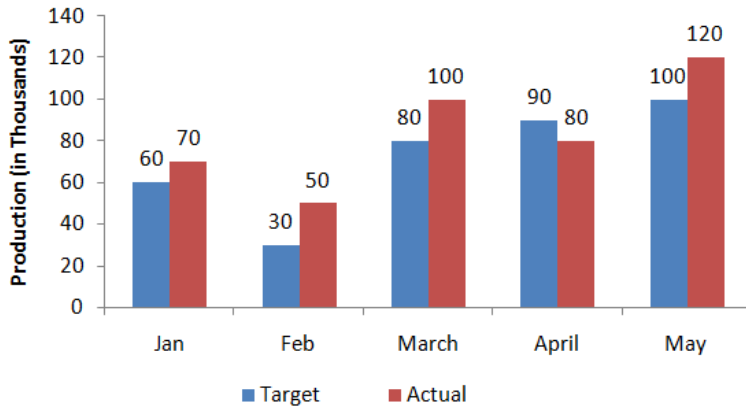
The volume of a right circular cone is 924 cm^3 . If its height is 18 cm, then the area of its base (in cm^2) is:

- A 154
- B 198
- C 176
- D 132

Answer: A

Question 62

The given Bar Graph presents the Target and Actual production of AC Machines (numbers in thousands) of a factory over five months.



In which month the actual production of AC Machines was 25% more than the target production?

- A February
- B January
- C May
- D March

Answer: D

Explanation:

AC machines was indicated by actual symbol

while you cannot consider **may** because in this month the actual production was more 120%

According to Question the production of AC machines should be 25%

hence use this formula **Increase in percentage (%) = $\frac{100-80}{80} \times 100$**

$$= \frac{20}{80} \times 100$$

= 25% will come in March hence March is the exact Answer

Question 63

In $\triangle ABC$, $AB = 7$ cm, $BC = 24$ cm and $AC = 25$ cm. If G is the centroid of the triangle, then what is the length (in cm) of BG ?

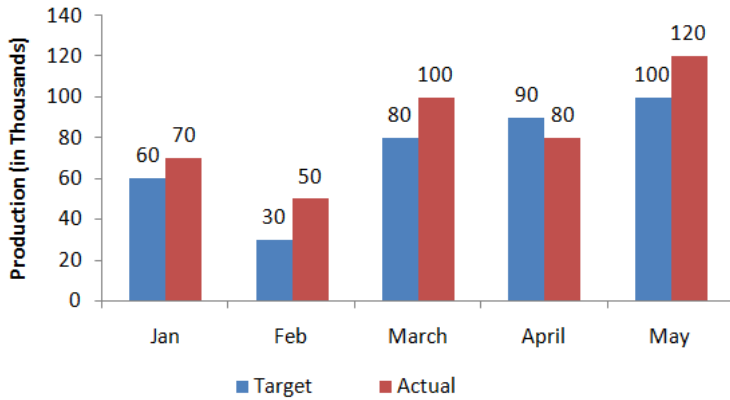
- A $\frac{2}{3}$
- B $\frac{1}{3}$
- C 9
- D 10

Answer: B

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Question 64

The given Bar Graph presents the Target and Actual production of AC Machines (numbers in thousands) of a factory over five months.



The total target production of AC Machines in February, April and May was what percentage less than the total actual production of AC Machines overall the five months (correct to one decimal place)?

- A 47.6%
- B 46.2%
- C 47.1%
- D 46.8%

Answer: A

Explanation:

The total **target** production of AC Machines in February, April and May was considered has **final**=February+April+May=30+90+100=220

the total **Actual** production of AC Machines overall the five months is considered has **initial**=70+50+100+80+120=420

we know that %decrease = $\frac{\text{final} - \text{initial}}{\text{initial}} \times 100$

$$= \frac{220 - 420}{420} \times 100$$

$$= \frac{200}{42} \times 10$$

$$= \frac{2000}{42}$$

$$= 47.61$$

Question 65

If 30 persons take 10 days to complete a certain work working 8 hours a day, then 40 persons should work how many hours a day so that the work is completed in 6 days?

- A 8
- B 6
- C 12
- D 10

Answer: D

Explanation:

by using this trick solve this type of problems

$$\frac{\text{women or men} \times \text{days} \times \text{hours}}{\text{workers}} = \frac{\text{women or men} \times \text{days} \times \text{hours}}{\text{workers}}$$

$$\text{men}_1 \times \text{days}_1 \times \text{hours}_1 = \text{men}_2 \times \text{days}_2 \times \text{hours}_2$$

$$30 \times 10 \times 8 = 40 \times 6 \times H_2$$

$$H_2 = \frac{30 \times 10 \times 8}{40 \times 6}$$

$$H_2 = 10$$

Question 66

The simple interest on a certain sum for $3\frac{1}{2}$ years at 10% per annum is ₹2,940. What will be the compound interest on the same sum for $2\frac{1}{2}$ years at the same rate when interest is compounded yearly (nearest to a rupee)?

- A ₹2,227
- B ₹2,327
- C ₹2,372
- D ₹2,272

Answer: D

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Question 67

There are 90 students in a class, out of which 70% are from village A and others are from village B. The average score of students from village B in a test is 20% more than that from village A. If the average score of all the students is 53, then what is the average score of the students from village B?

- A 60
- B 54
- C 64
- D 50

Answer: A

Question 68

If $a + b + c = 5$, $a^2 + b^2 + c^2 = 27$, and $a^3 + b^3 + c^3 = 125$, then the value of $4abc$ is:

- A -20
- B 20
- C 15
- D -15

Answer: A

Question 69

If $\cos^2 \theta - \sin^2 \theta - 3 \cos \theta + 2 = 0$, $0^\circ < \theta < 90^\circ$, then what is the value of $4 \operatorname{cosec} \theta + \cot \theta$?

- A 4
- B 3

C $3\sqrt{3}$

D $4\sqrt{3}$

Answer: C

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Question 70

After allowing a discount of 10% on the marked price of an article, it is sold for ₹360. Had the discount not been given, the profit would have been 25%. What is the cost price of the article?

A ₹360

B ₹320

C ₹350

D ₹325

Answer: B

Question 71

If $a^2 + 4b^2 + 49c^2 + 18 = 2(2b + 28c - a)$, then the value of $(3a + 2b + 7c)$ is:

A 2

B 0

C 3

D 1

Answer: A

Question 72

If the eight-digit number $342x18y6$ is divisible by 72, then what is the value of $\sqrt{9x + y}$, for the largest value of y ?

A 8

B $2\sqrt{7}$

C $4\sqrt{7}$

D 6

Answer: D

Explanation:

given, 8 digit number = $342x18y6$ is divisible by 72.

means, $342x18y6$ is also divisible by 8 as well as 9.

we know, any number is divisible by 8 only if last three digits of that number is divisible by 8.

here last three digits = $8y6$

now tell me what is the possibility of y , then $8y6$ will be divisible by 8.

of course, $y = 1, 5$ and 9

so, we get $y = 1, 5, 9$

but question, say we have to find square root of $(9x + y)$ for largest value of y .

so, take $y = 9$

now from divisibility of 9, any number is divisible by 9 only if sum of all digits is divisible by 9.

so, sum of digits $= (3 + 4 + 2 + x + 1 + 8 + y + 6) = 24 + x + y$

when we put $y = 9$ then, sum of digits $= (33 + x)$, it is divisible by 9 when $x = 3$

so we get $x = 3$

now, $y = 9$ and $x = 3$

so, square root of $(9x + y) = (9 \times 3 + 9) = \sqrt{36} = 6$

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Question 73

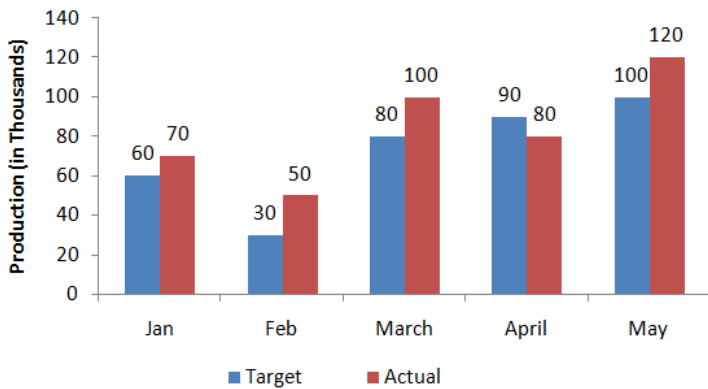
In $\triangle ABC$, D and E are the points on sides AB and AC, respectively, such that $DE \parallel BC$. If $DE : BC$ is $3 : 5$, then (Area of $\triangle ADE$) : (Area of quadrilateral DECB) is:

- A 3 : 4
- B 9 : 16
- C 5 : 8
- D 9 : 25

Answer: B

Question 74

The given Bar Graph presents the Target and Actual production of AC Machines (numbers in thousands) of a factory over five months.



The ratio of the combined target production of AC Machines in January and April to that of the combined actual production of AC Machines in March and April was:

- A 5 : 6
- B 2 : 3
- C 3 : 2
- D 4 : 5

Answer: A

Question 75

A person sold an article at a loss of 8%. Had he sold it at a gain of 10.5%, he would have received ₹37 more. What is the cost price of the article?

- A ₹240
- B ₹250
- C ₹210
- D ₹200

Answer: D

Explanation:

Let x be cost price of the article.

Selling price at 8 % loss would be -

$$\text{Selling price} = \frac{\text{cost price} \times 100 - \text{loss percentage}}{100}$$

$$\text{Selling price} = \frac{x \times 100 - 8}{100}$$

$$\text{Selling price (SP)} = 0.92x$$

Selling price at 10.5 % gain would be -

$$\text{Selling price (sp)}' = \frac{\text{cost price} \times 100 + \text{gain percentage}}{100}$$

$$\text{Selling price (sp)}' = \frac{x \times 100 + 10.5}{100}$$

$$\text{SP}' (\text{selling price}) = 1.105x$$

Given that person gets ₹37 Rs due to this profit.

Hence cost price of the article is

$$\text{SP}' - \text{SP} = 37$$

$$1.105x - 0.92x = 37$$

$$0.185x = 37$$

$$x = \frac{37}{0.185}$$

$$x = 200₹$$

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English

Instructions

For the following questions answer them individually

Question 76

Select the most appropriate word to fill in the blank.

People's will and determination can help them _____ most of the challenges of life.

- A overvalue
- B overview
- C overdo
- D overcome

Answer: D

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Instructions

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

Question 77

The Public Works Department has propose to construct an elevated corridor which will run parallel to the National highway.

- A to the National highway
- B which will run parallel
- C to construct an elevated corridor
- D The Public Works Department has propose

Answer: D

Question 78

I visited my friend to whom I had made an appointment.

- A to whom
- B I had made
- C an appointment
- D I visited my friend

Answer: A

Instructions

For the following questions answer them individually

Question 79

Select the word which means the same as the group of words given.

One who does not tire easily

- A indelible
- B inevitable
- C indefatigable
- D infallible

Answer: C

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Question 80

Select the most appropriate meaning of the given idiom.

throw in the towel

- A face the situation

- B drop something
- C think of a solution
- D admit defeat

Answer: D

Question 81

Select the word which means the same as the group of words given.

A group of singers in a church

- A host
- B choir
- C troop
- D band

Answer: B

Question 82

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

- A. He often asked questions which were strange and witty.
- B. Emperor Akbar was in the habit of putting riddles and puzzles to his courtiers.
- C. Once he asked a strange question that confused everyone.
- D. It took much wisdom to answer these questions.

- A CABD
- B BADC
- C BACD
- D ABCD

Answer: B

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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:

Big Ben is the UK's most iconic symbol. Since 2017, the Elizabeth Tower and the bell inside have been (1) _____ renovation. The structure is 160 years old and (2) _____ regular maintenance. (3) _____ many years, people had been painting the hands and numbers (4) _____ the clock black, but last Thursday, the workers (5) _____ the clock's original colour, Prussian Blue!

Question 83

Select the most appropriate option for blank No. 1.

- A undertaking
- B understanding
- C undergoing

D undermining

Answer: C

Question 84

Select the most appropriate option for blank No. 2.

A was needing

B has needed

C is needed

D need

Answer: B

Question 85

Select the most appropriate option for blank No. 3.

A About

B For

C In

D Before

Answer: B

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Question 86

Select the most appropriate option for blank No. 4.

A at

B for

C of

D to

Answer: C

Question 87

Select the most appropriate option for blank No. 5.

A concealed

B discovered

C imparted

D invented

Answer: B

Instructions

For the following questions answer them individually

Question 88

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

- A. Most of them are in jail because of their circumstances.
- B. Not all prisoners are hardcore criminals.
- C. So, they deserve a chance to rehabilitate themselves.
- D. Therefore, learning a trade would help them reintegrate with society.

- A BACD
- B ABCD
- C BDCA
- D DCBA

Answer: A

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Question 89

Select the most appropriate antonym of the given word.

SUCCINCT

- A lengthy
- B pithy
- C curt
- D terse

Answer: A

Question 90

Select the most appropriate synonym of the given word.

HIND

- A front
- B near
- C first
- D rear

Answer: D

Question 91

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

I hope never to have another so experience as I had in Puri during Cyclone Fani.

- A as experience as
- B such experience as

- C No improvement
- D same experience as

Answer: B

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Question 92

Select the most appropriate word to fill in the blank.

In spite of being born in an _____ family, he chose to fight all odds and emerged as a not able statesman.

- A intelligent
- B immaculate
- C impeccable
- D impoverished

Answer: D

Question 93

Select the wrongly spelt word.

- A assure
- B assuredly
- C assurable
- D assurance

Answer: D

Question 94

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

Oh, what a lovely necklace! You need no buy such an expensive gift.

- A hadn't needed to buy
- B No improvement
- C didn't need to buying
- D needn't have bought

Answer: D

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Question 95

Select the wrongly spelt word.

- A barren

- B berrel
- C barrier
- D berry

Answer: B

Question 96

Select the correct passive form of the given sentence.

The gardener has mowed the lawn.

- A The lawn has been mowed by the gardener.
- B The lawn is mowed by the gardener.
- C The gardener has been mowed by the lawn.
- D The lawn was mowed by the gardener.

Answer: A

Question 97

Select the most appropriate antonym of the given word.

EXOTIC

- A colourful
- B ordinary
- C alien
- D curious

Answer: B

SSC CHSL Study Material

Question 98

Select the most appropriate synonym of the given word.

INNUENDO

- A verification
- B proof
- C implication
- D evidence

Answer: C

Question 99

Select the most appropriate meaning of the given idiom.

to air dirty linen in public

- A to hang out clothes in the open

- B to stand up and fight
- C to continue to complain
- D to discuss private affairs in public

Answer: D

Question 100

Select the correct indirect form of the given sentence.

Mrs. Gupta said to me, "Why are these boys standing in the sun?"

- A Mrs. Gupta asked me why were these boys standing in the sun.
- B Mrs. Gupta said to me that why are these boys standing in the sun.
- C Mrs. Gupta asked me why those boys were standing in the sun.
- D Mrs. Gupta told me why those boys are standing in the sun.

Answer: C

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