



SSC CHSL 3 July 2019 Shift-2

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Reasoning

Instructions

For the following questions answer them individually

Question 1

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

- A Atoms
- B Tissues
- C Cells
- D Organs

Answer: A

Explanation:

tissues, cells, organs are living and requires oxygen or other minerals and gaseous to function whereas atom are microscopic non living entities

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Question 2

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

(84, 60, 51)

- A (52, 64, 47)
- B (64, 80, 72)
- C (80, 98, 69)
- D (72, 56, 62)

Answer: C

Explanation:

$$(84 \div 4) + (60 \div 2) = 21 + 30 = 51$$

Using the same logic,

$$(80 \div 4) + (98 \div 2) = 20 + 49 = 69$$

\therefore (80, 98, 69) are related in the same way as (84, 60, 51)

Hence, the correct answer is Option C

Question 3

Which number will replace the question mark (?) in the following series?

16, 30, 62, 122, 246, ?

- A 488
- B 490
- C 492
- D 494

Answer: B

Explanation:

in the given series

16, 30, 62, 122, 246, ?

$$16 \times 2 - 2 = 32 - 2 = 30$$

$$30 \times 2 + 2 = 60 + 2 = 62$$

$$62 \times 2 - 2 = 124 - 2 = 122$$

$$122 \times 2 + 2 = 244 + 2 = 246$$

Then, Next number is $246 \times 2 - 2 = 492 - 2 = 490$.

Question 4

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

RGYbsQ791

A **1 9 7 Q s b Y G R**

B **1 9 7 Q s d Y G R**

C **1 9 7 Q s d Y G R**

D **1 9 7 Q s q Y G R**

Answer: B

Explanation:

its the mirror image formation every word is the mirror image of themselves and the entire combination is also the mirror image of itself

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Question 5

'Chassis' is related to 'Car' in the same way as 'Skeleton' is related to _____.

A Spinal cord

B Organs

C Body

D Bones

Answer: C

Explanation:

chassis means the frame of a car hence as chassis is the frame or the basic structure of car likewise skeleton is the frame of the body

Question 6

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

(4, 6, 52)

A (3, 5, 34)

B (6, 7, 95)

C (7, 9, 120)

D (5, 7, 72)

Answer: A

Explanation:

Here the first and the second digit are multiplied and doubled and after that 4 is added to it to get the third digit i.e

$$6 \times 4 = 24$$

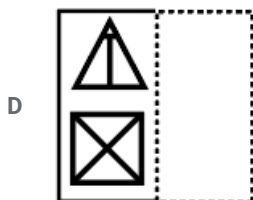
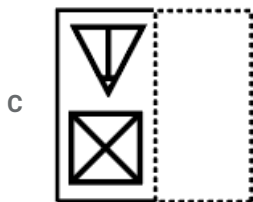
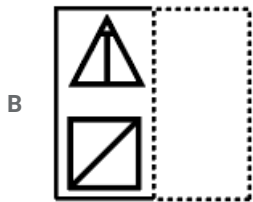
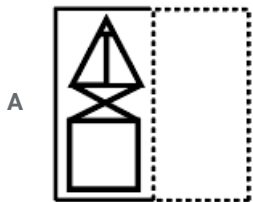
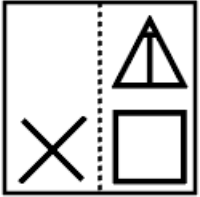
$$24 \times 2 = 48$$

$$48 + 4 = 52$$

this process is followed by option A

Question 7

Select the option that depicts how the given transparent sheet of paper would appear if it is folded at the dotted line.



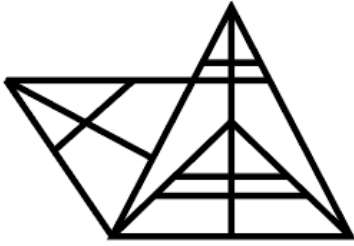
Answer: D

Explanation:

here if we fold the the sheet from the dotted lines than the shapes will rotate to left side forming a imposed mirror image so therefore the square overlaps the cross and triangle comes to the left side with no changes

Question 8

How many triangles are present in the following figure ?



- A 28
- B 27
- C 26
- D 25

Answer: C

Explanation:

we know that the total number of triangles= number of upward triangle + number of downward triangle

so here total number of upward triangle is 13 and total number of downward triangle is 13 making the total number of triangle present in the image 26

Question 9

In a code language, CONVEYER is written as FLQYBBBU. How will PERSONAL be written as in that language?

- A RAUVMQYO
- B SBOULQXO
- C SBUVLQDO
- D SBUVLQXO

Answer: D

Explanation:

Here every consonant is added with 2 letters and every vowel is taken two letter backward in the alphabetical series i.e

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

P +2=S (P, QR, S)

E-2=B (E, DC, B) similarly others letters are given below

R+2=U

S+2=V

O-2=L

N+2=Q

A-2=X

L+2=O

making SBUVLQXO the correct code for personal

Question 10

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

$$868 + 14 \times 55 - 1064 \div 56 = 117$$

A \div and \times

B $+$ and $-$

C \times and $-$

D $+$ and \div

Answer: B

Explanation:

Given

$$868 + 14 \times 55 - 1064 \div 56$$

now solving the equation using BODMAS

$$868 + 14 \times 55 - 19$$

$$868 + 770 - 19$$

$$= 1617$$

but according to question we have $868 + \times 55 - 1064 \div 56 = 117$

hence the difference between the answers is $1617 - 117 = 1500$

so we need to subtract 1500 from the equation to get the correct values which can be done by replacing the sign of plus "+" with that of minus "-"

so that the equation gets corrected i.e $868 - 770 + 19$ is 117.

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Question 11

'A + B' means 'A is the mother of B'.

'A - B' means 'A is the wife of B'.

'A \times B' means 'A is the brother of B'.

'A \div B' means 'A is the husband of B'.

If $T \div V + Q - J \times M + U$, then how is T related to J?

A Father

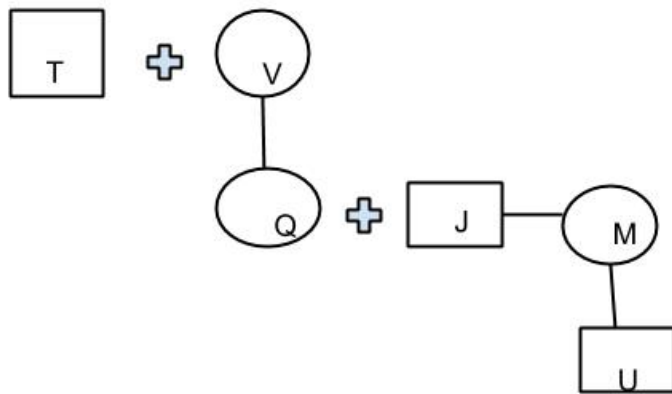
B Brother

C Son-in-law

D Father-in-law

Answer: D

Explanation:

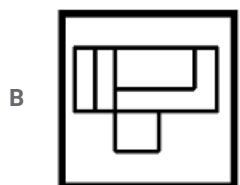
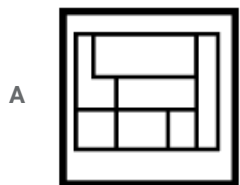


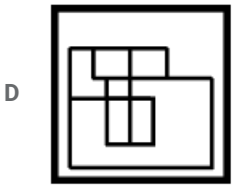
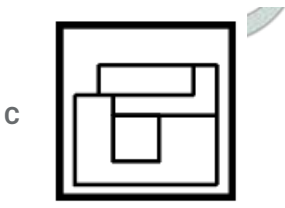
here in the family tree plus sign refers to the husband and wife and all square boxes are male whereas all circles are female
 all the drop down lines represent the children of the above linked symbols and straight lines refers to siblings
 by the given relation we know

T is the husband of V and V is the mother of Q who is married to J and J is the brother of M who has a son U therefore from the above diagram we can infer that T is father in law of J

Question 12

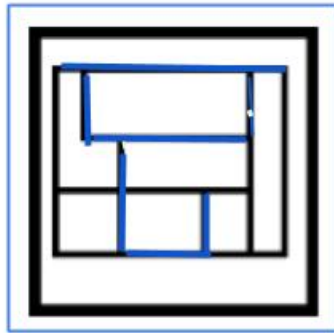
Select the option in which the given figure (X) is embedded (rotation not allowed).





Answer: A

Explanation:



the highlighted image of the embedded figure is given above which can be seen in option A

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.

QDUJ : VIZO :: LPAR : ?

A RUFW

B QUFW

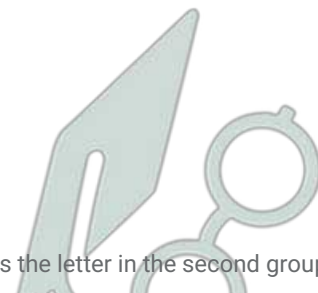
C QUEX

D PUFY

Answer: B

Explanation:

Here every same place letter in the first group of letters are +4 times the letter in the second group of letters i.e



ABCDEFGHIJKLMNOPQRSTUVWXYZ

$Q+4=V(Q,RSTU,V)$ similarly we can check the other words

so the related letter cluster for LPAR is QUFW

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Question 14

If $W = 46$ and $CAT = 48$, then how will you code SALE ?

- A 74
- B 54
- C 19
- D 110

Answer: A

Explanation:

according to the information given,

firstly,

ABCDEFGHIJKLMNOPQRSTUVWXYZ
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

Here we see $W=23$ and the value given is 46 i.e $23 \times 2 = 46$

similarly $C+A+T$ i.e $3+1+20=24$ and $24 \times 2 = 48$

so $S+A+L+E$ is $19+1+12+5=37$ and $37 \times 2=74$

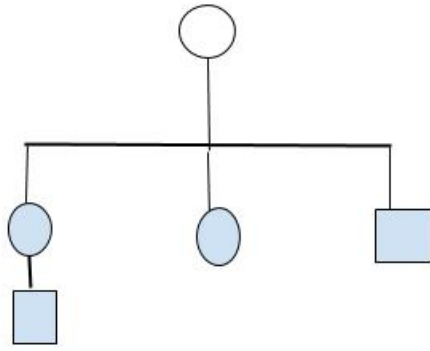
Question 15

Mayank is the son of Chhaya. Chhaya and Deepa are sisters. Gayatri is the mother of Deepa. If Naman is the son of Gayatri, how is Mayank related to Naman?

- A Father
- B Son
- C Brother
- D Nephew

Answer: D

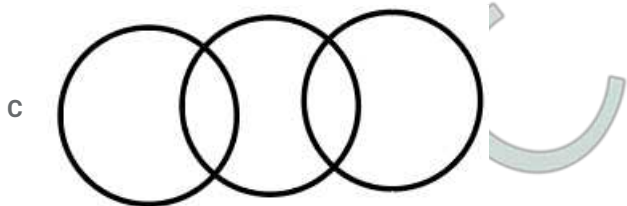
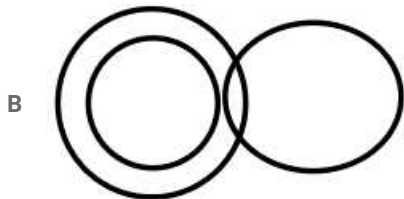
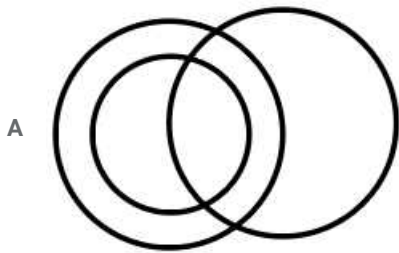
Explanation:

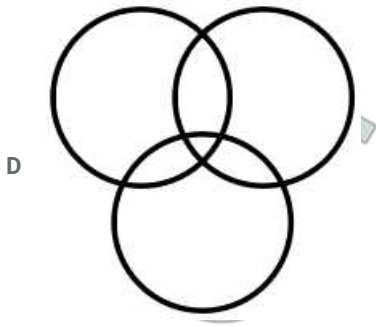


with the given information we know gayatri have three children namely chhaya deepa and naman and chhaya has a son mayank so therefore naman is uncle of mayank or we can say mayank is nephew of naman

Question 16

Select the Venn diagram that best illustrates the relationship between the following classes.
Men, Players, Fathers.





Answer: A

Explanation:

all fathers are men but some men may not be father and some players may be men but even we know women too play so option one represents the correct venn diagram for this

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Question 17

In the month of June, the number of girls in a class was half of the number of boys. In July, five more girls took admission, whereas five boys left the school. Now, the number of boys and girls is equal in the class. How many students in total were there in the class in June?

- A 20
- B 30
- C 25
- D 35

Answer: B

Explanation:

according to the question we know

in the month of june number of girls were half of the number of boys present i.e

$$\text{girls}(g) = \frac{1}{2} \text{ boys}(b)$$

but in the month of july, as 5 new girls took admission to the school total number of girls now are $g+5$

and similarly in the same month 5 boys left the school making the number of boys to be $b-5$

now with this the total number of boys and girls now became equal i.e

$$\Rightarrow g+5 = b-5$$

we know g is half of b so apply the same value in the above given equation we get

$$\frac{1}{2} b+5=b-5$$

$$b+10 = 2b-10$$

$$b=20$$

therefore similarly $g = 10$

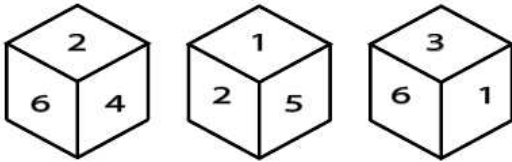
hence number of boys in the month of june = 20

number of girls in the month of june = 10

so the total number of students in the month of june is $10+20=30$

Question 18

Three different positions of the same dice are shown. Find the number on the face opposite the face showing '3' ?



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

Answer: A

Explanation:

as the information given through the image we know that 6 4 and 1 lies on the same side and adjacent to each other where as 1 2 and 5 lies on different planes but 1 and 5 are on same plane so we can say that 1 4 6 and 5 are the four sides of the plane and 2 and 3 are the top and the bottom

hence making 2 opposite of 3

Question 19

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

JVD, MTF, PRH, ?, VNL

- A SPJ
- B SQJ
- C RQI
- D RPJ

Answer: A

Explanation:

the series goes like +2,-1,+1

A B C D E F G

H I J K L M N

O P Q R S T

U V W X Y Z

So for every first letter in the group of letters we add +2 making a series like J,M,P,S,V

$J + 2 = M$ (J K L than M)

and for every second letter in the group of letter we go one letter back that is -1 making the series V,T,R,P,N

$V - 1 = T$ (T U AND V)

now for the third letter in the group of letters we do +1 making the series D,F,H,J,L

$D + 1 = E$ (D E AND F)

So doing this the answer we get is SPJ that is option A

Question 20

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.
Nephrology : Kidney

- A Cardiology : Liver
- B Zoology : Plants
- C Ophthalmology : Eyes
- D Pathology : Tissues

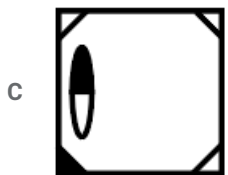
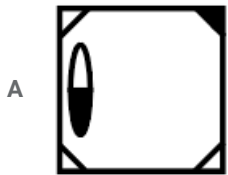
Answer: C

Explanation:

As nephrology is the study of kidney the same way ophthalmology is the study of eye

Question 21

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



Answer: C

Explanation:



here from the above image we can infer that the black shaded portion is shifting in clockwise direction in every step

Question 22

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

6, 24, 60, 120, ?

- A 210
- B 216
- C 240
- D 186

Answer: A

Explanation:

$$6 = 3 \times 2$$

$$24 = 4 \times 6$$

$$60 = 5 \times 12$$

$$120 = 6 \times 20$$

The relation between 2, 6, 12, 20 is

$$2 + 4 = 6$$

$$6 + 6 = 12$$

$$12 + 8 = 20$$

$$20 + 10 = 30$$

∴ The next number in the series 6, 24, 60, 120 is $7 \times 30 = 210$

Hence, the correct answer is Option A

Question 23

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.
442 : 21

- A 257 : 16
- B 223 : 13
- C 323 : 19
- D 238 : 14

Answer: A

Explanation:

we know that the square of 21 is 441 and the ratio given is in similar way with just a slight difference of +1
the similarly format is followed by 257 and 16 where 256 is the square of 16 and adding 1 to it makes it 257
where as square of 13 is 169

14 is 196

19 is 361

non of them have the similar format except the first option

so the correct answer is $16^2 + 1 = 257$

Question 24

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

__ Q D P C __ Q C Q __ C P D Q C _ D P _ P D

- A PCPDDPDC
- B QCPCPPQC
- C QCPDDPQC
- D QCDDDPQD

Answer: C

Explanation:

this series consists of four alphabets QP and CD and each Q pairing with C and D respectively and each P again pairing with C and D respectively making three pairs in total

firstly if we see the given letters we notice that a similar set of letters are repeated in some kind of sequence

it is also noticable that the after every Q and P there is C or D

and after every set of two Q's there is set of two P's

and C and D are written alphabetically

so we can infer that the missing words are in following series is Q C Q D P C P D Q C Q D P C P D Q C Q D P C P D

Question 25

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 parks are schools.

No school is a college.

Conclusions:

I. No college is a school.

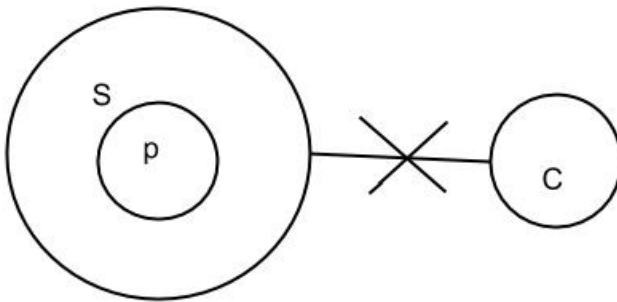
II. Some schools are parks.

III. No park is a college.

- A Only conclusions I and III follow.
- B Only conclusions II and III follow.
- C Only conclusions I and II follow.
- D All the conclusions follow.

Answer: D

Explanation:



The above shown is the venn diagram representing the situation given in the question where

S stands for school P stands for park and C stands for college

as the statement says all park are school so the entire smaller circle lies inside the bigger circle but no school is college so a cross is drawn in between the circles representing no connection between school and college

now as the conclusion I says no college is school holds true for the given situation

and conclusion II says some school are park yes even this might be true as because if all parks are school than some school may also be park

now for conclusion III, no park is college also is true as, if no school is college and all park is school than no park is college holds correct

making all the three conclusion to be true which is shown in the above venn diagram

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General knowledge

Instructions

For the following questions answer them individually

Question 26

Which of the following companies has become India's most profitable public sector company in the fiscal year 2018-19?

- A NTPC Limited
- B Indian Oil Corporation
- C Oil and Natural Gas Corporation
- D Bharat Petroleum

Answer: C

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Question 27

Gahirmatha Sanctuary is the only Sanctuary for _____ in Odisha.

- A Crocodiles
- B Deer
- C Turtles
- D Elephants

Answer: C

Question 28

In which year did the Convention of Wadgaon take place?

- A 1799
- B 1789
- C 1769
- D 1779

Answer: D

Question 29

Who is the managing Director and Editor in Chief of Republic TV?

- A Rajdeep Sardesai
- B Prannoy Roy
- C Arnab Goswami

D Barkha Dutt

Answer: C

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Question 30

Which river is known as the 'handmaid' of the Narmada?

A Luni

B Mahi

C Tapti

D Sabarmati

Answer: C

Question 31

During the Gupta Period, gold coins were called by which of the following names?

A Rupaka

B Tanka

C Drama

D Dinaras

Answer: D

Question 32

Which of the following sports is played in a velodrome?

A Cycling

B Boxing

C Wrestling

D Fencing

Answer: A

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Question 33

Where is Rhodopsin, also called visual purple, located in the human body?

A Eye

B Hair

C Nail

D Hand

Answer: A

Question 34

Who among the following was conferred the Mexican 'Orden Mexicana del Aguila Azteca' award in June 2019?

- A Sushma Swaraj
- B Nirmala Sitharaman
- C Smriti Irani
- D Pratibha Patil

Answer: D

Question 35

Para Olympic silver Medal winner Girish Gowda has been appointed as Lok Sabha Election Ambassador for the second time of which state?

- A Karnataka
- B Kerala
- C Andhra Pradesh
- D Tamil Nadu

Answer: A

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Question 36

The scientific discipline concerned with the description of rock successions and their interpretation in terms of a general time scale is called:

- A Stratigraphy
- B Paleontology
- C Mineralogy
- D Geodesy

Answer: A

Question 37

In which state is the Chamera Hydro Electric Project located?

- A Gujarat
- B Himachal Pradesh
- C Maharashtra
- D Punjab

Answer: B

Question 38

The term 'mitochondria' was coined by:

- A Antonie van Leeuwenhoek
- B J E Salk
- C Carl Benda
- D Charles Laveran

Answer: C

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Question 39

The Lok Sabha elected after the 2019 elections is the _____ Lok Sabha.

- A 15th
- B 17th
- C 18th
- D 16th

Answer: B

Question 40

In May 2019, _____ was appointed as the Deputy Executive Director of the United Nations Entity for Gender Equality and the Empowerment of Women for Resource Management, Sustainability and Partnerships.

- A Anita Bhatia
- B Amruta Fadnavis
- C Sudha Murthy
- D Lakshmi Puri

Answer: A

Question 41

The newly commissioned 64-foot Vishwaroopa Mahavishnu statue is proposed to be installed at Kothandaramaswamy temple in which city?

- A Bengaluru
- B Hyderabad
- C Madurai
- D Chennai

Answer: A

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Question 42

In March 2019, K. Govindaraj has been unanimously re-elected as president of which of the following organisations?

- A All India Tennis Association
- B Sports Authority of India
- C Basketball Federation of India
- D Table Tennis Federation of India

Answer: C

Question 43

A market structure which is dominated by only a small number of firms is called:

- A Monopoly
- B Monopolistic Competition
- C Perfect Competition
- D Oligopoly

Answer: D

Question 44

In 2019, _____ introduced a clause as per which if one is applying for a visa to that country, one needs to furnish a social media track record of the past five years.

- A UK
- B France
- C Japan
- D USA

Answer: D

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Question 45

A database used by Microsoft Windows for storing configuration information is known as:

- A Registry
- B Cache
- C Cookie
- D Record

Answer: A

Question 46

Project 'Mausam' which was launched in June 2014, is an initiative of _____.

- A Ministry of Earth Sciences
- B Ministry of Culture
- C Ministry of Environment and Forests and Climate Change
- D Ministry of Tourism

Answer: B

Question 47

Vembanad lake, which is the largest lakes of India is in which state?

- A Tamil Nadu
- B Kerala
- C Andhra Pradesh
- D Karnataka

Answer: B

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Question 48

Who is the author of the book 'Cricket World Cup: The Indian Challenge'?

- A Sanjay Manjrekar
- B Harsha Bhogle
- C Ashis Ray
- D Narottam Puri

Answer: C

Question 49

The helmet of the wicket keeper has been kept on the ground and the ball that the batsman strikes hits the helmet. How many penalty runs are given to the batting team for this occurrence?

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

Answer: A

Question 50

In the context of IT services, what is the full form of BCP?

- A Business Confirmation Protocol
- B Business Continuity Protocol
- C Business Confirmation Plan
- D Business Continuity Plan

Answer: D

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Quant

Instructions

For the following questions answer them individually

Question 51

If $x + \frac{1}{x} = 7$, then $x^3 + \frac{1}{x^3}$ is equal to:

- A 300
- B 364
- C 343
- D 322

Answer: D

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Question 52

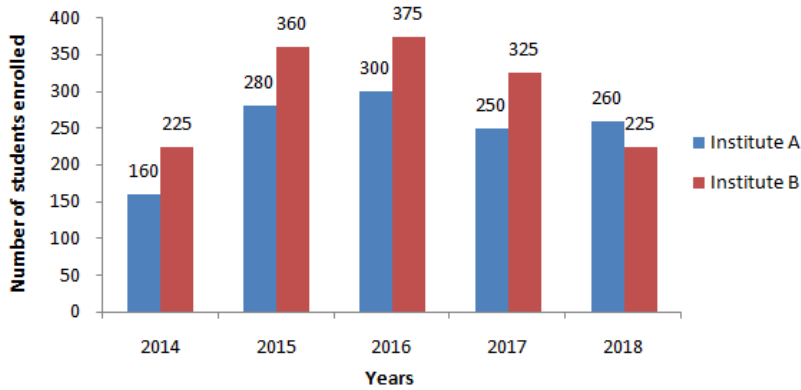
Two numbers A and B are in the ratio 5 : 2, If 4 is added to each number then this ratio becomes 9 : 4. If 5 is subtracted from each of the original numbers, then the ratio of A and B will be:

- A 8 : 3
- B 7 : 2
- C 3 : 1
- D 4 : 1

Answer: C

Question 53

The given Bar Graph presents the number of students enrolled for a vocational course in institutes A and B during a period of five years.



What is the ratio of the total numbers of students enrolled in A during 2015 and 2018 to that of students enrolled in B during 2014 and 2016?

- A 11:12
- B 16:15
- C 9:10
- D 27:25

Answer: C

Question 54

If $x \neq -1, 2$ and 5 , then the simplified value of

$$\left\{ \frac{2(x^3-8)}{x^2-x-2} \times \frac{x^2+2x+1}{x^2-4x-5} \div \frac{x^2+2x+4}{3x-15} \right\} \text{ is equal to:}$$

- A $\frac{2}{3}$
- B $\frac{1}{6}$
- C 6
- D $\frac{3}{2}$

Answer: C

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Question 55

A certain sum amounts to ₹29282 in 4 years at 10% per annum, when the interest is compounded annually. What is the simple interest on the same sum for same time at the same rate ?

- A ₹8,400
- B ₹7,600
- C ₹8,000
- D ₹8,500

Answer: C

Question 56

In $\triangle ABC$, AD, the bisector of $\angle A$, meets BC at D. If $BC = a$, $AC = b$ and $AB = c$, then $BD - DC =$

A $\frac{a(c-b)}{c+b}$

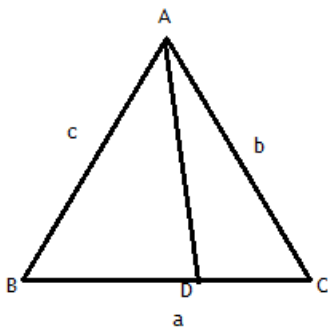
B $\frac{ab}{b+c}$

C $\frac{ac}{b+c}$

D $\frac{a(c+b)}{c-b}$

Answer: A

Explanation:



According to angle bisector theorem

$$\frac{AB}{AC} = \frac{BD}{DC}$$

$$\frac{c}{b} = \frac{BD}{DC}$$

Add 1 in both side

$$\frac{c}{b} + 1 = \frac{BD}{DC} + 1$$

$$\frac{c+b}{b} = \frac{BD+DC}{DC}$$

$$\frac{c+b}{b} = \frac{a}{DC}$$

$$DC = \frac{ab}{b+c} \text{ ----i}$$

$$\frac{b}{c} = \frac{DC}{BC}$$

Add 1 in both side

$$\frac{b}{c} + 1 = \frac{DC}{DB} + 1$$

$$\frac{c+b}{c} = \frac{DC+DB}{DB}$$

$$\frac{c+b}{c} = \frac{a}{DB}$$

$$DB = \frac{ac}{b+c} \text{ ----ij}$$

$$BD - DC = \frac{ac}{b+c} - \frac{ab}{b+c} = \frac{a(c-b)}{b+c}$$

Question 57

A wire is in the shape of a rectangle whose sides are in the ratio 7 : 4. It was initially in the shape of a circle of radius, very nearly equal to 31.5 cm. The length of smaller side of the rectangle is: (Take $\pi = \frac{22}{7}$)

A 32 cm

- B 40 cm
- C 44 cm
- D 36 cm

Answer: D

Explanation:

Length of wire = circumference of the circle = $2\pi r$

$$2 \times \frac{22}{7} \times 31.5 = 198$$

Let the length and breadth of the rectangle be $7x$ and $4x$ respectively

$$\text{So, } 2(7x+4x)=198$$

$$22x = 198$$

$$x=9$$

Breadth = 36 cm.

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Question 58

A and B together can do a piece of work in 10 days, B and C together can do it in 15 days while C and A together can do it in 20 days. They work together for 8 days. C alone will complete the remaining work in:

- A $3\frac{1}{5}$ days
- B 12 days
- C 16 days
- D $5\frac{1}{3}$ days

Answer: C

Explanation:

Total work = L.C.M of 10, 15 and 20 = 60 units

$$(A + B)'s \text{ 1 day work} = 60/10 = 6 \text{ units -----i}$$

$$(B + C)'s \text{ 1 day work} = 60/15 = 4 \text{ units -----ii}$$

$$(A + C)'s \text{ 1 day work} = 60/20 = 3 \text{ units -----iii}$$

$$2(A + B + C)'s \text{ 1 day work} = 13 \text{ units}$$

$$(A + B + C)'s \text{ 1 day work} = 13/2 \text{ units -----iv}$$

From i and iv

$$C's \text{ 1 day work} = \frac{13}{2} - 6 = \frac{1}{2}$$

$$(A+B+C)'s \text{ 8 day work} = \frac{13}{2} \times 8 = 52 \text{ units}$$

Remaining work = 60 - 52 = 8 units.

So, C can do remaining work = $8 \times 2 = 16$ days.

Question 59

A rectangle ABCD is inscribed in a circle with centre O. Its diagonal CA is produced to a point E, outside the circle. ED is a tangent to the circle at D. If $AC = 2BC$, then what is the measure of $\angle DEC$?

- A 40°

B 45°

C 60°

D 30°

Answer: D

Question 60

Let $\triangle ABC \sim \triangle PQR$ and $\frac{ar(\triangle ABC)}{ar(\triangle PQR)} = \frac{9}{16}$. If $AB = 12$ cm, $BC = 6$ cm and $AC = 9$ cm, then QR is equal to:

A 8 cm

B 9 cm

C 12 cm

D 16 cm

Answer: C

Explanation:

If two triangles are similar, then the ratio of the area of both triangles is proportional to the square of the ratio of their corresponding sides

$$\frac{ar(\triangle ABC)}{ar(\triangle PQR)} = \frac{BC^2}{QR^2}$$

$$\frac{9}{16} = \frac{36}{QR^2}$$

$$QR^2 = 64$$

$$QR = 8 \text{ cm.}$$

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Question 61

If one of the angles of a triangle is 64° , then the angle between the bisectors of the other two interior angles is:

A 96°

B 122°

C 112°

D 100°

Answer: B

Explanation:

Let A, B and C are three angles of a triangle

Sum of three angles are 180 degrees

Let angle A = 64 degrees

Angle B + Angle C = $180 - 64 = 116$ degrees

After bisecting Angle B and Angle C, Sum of B and C = $\frac{116}{2} = 58$

Hence, the angle between the bisectors of the other two interior angles = $180 - 58 = 122$ degrees.

Question 62

Aman gets a discount of 30% and then 20% on his food bill. How much equivalent single discount does he get?

- A 44%
- B 40%
- C 50%
- D 35%

Answer: A

Explanation:

Let the bill of food = 100

$$\text{Discounted price} = 100 \times \frac{70}{100} \times \frac{80}{100} = 56$$

$$\text{Single discount} = 100 - 56 = 44\%$$

Question 63

By selling an article for ₹2,300, Rekha gains 25%. If she sells it for ₹1955, then her loss/gain percent is:

- A Gain, 6.5%
- B Gain, 6.25%
- C Loss, 6.5%
- D Loss, 6.25%

Answer: B

Explanation:

$$\text{S.P} = \text{Rs } 2300, \text{ Gain} = 25\%$$

$$\text{C.P} = \frac{100}{125} \times 2300 = 1840$$

$$\text{S.P} = 1955$$

$$\text{Gain} = 1955 - 1840 = 115$$

$$\text{Gain \%} = \frac{115}{1840} \times 100 = 6.25 \%$$

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Question 64

In a circle with centre O, ABDC is a cyclic quadrilateral with AB as a diameter of the circle. AC and BD produced meet at E. If $\angle CED = 70^\circ$, then what is the measure of $\angle COD$?

- A 40°
- B 45°
- C 30°
- D 60°

Answer: A

Question 65

If $250\sqrt{2}x^3 - 5\sqrt{5}y^3 = (5\sqrt{2}x - \sqrt{5}y) \times (Ax^2 + Bxy + Cy^2)$, then the value of $(A + C - \sqrt{10}B)$ is:

- A 10
- B 5
- C $5\sqrt{2}$
- D $2\sqrt{5}$

Answer: B

Question 66

The marked price of an article is ₹400. After allowing a discount of 20% on the marked price, a shopkeeper makes a profit of ₹32. His gain percent is:

- A 9
- B $12\frac{1}{9}$
- C 8
- D $11\frac{1}{9}$

Answer: D

Explanation:

M.P= 400

D=20%

S.P= 320

Gain = 32

C.P= 320 - 32=288

Gain % = $\frac{32 \times 100}{288} = \frac{100}{9} = 11\frac{1}{9} \%$.

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Question 67

If $\sqrt{\frac{1-\cos\theta}{1+\cos\theta}} \times \sqrt{\frac{\operatorname{cosec}\theta - \cot\theta}{\operatorname{cosec}\theta + \cot\theta}} = \frac{1-r}{1+r}$, then the value of r is:

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

Answer: A

Question 68

The simplified value of $\left(\frac{7}{5} \div \frac{7}{10} \text{ of } \frac{3}{4}\right) \div \frac{4}{9} - \left(\frac{7}{16} \div 10\frac{1}{2} \times 7\frac{1}{5}\right) \times \frac{5}{12}$ is:

- A $\frac{47}{8}$
- B $\frac{41}{4}$
- C $\frac{49}{8}$
- D $\frac{39}{4}$

Answer: A

Explanation:

$$\begin{aligned} & \left(\frac{7}{5} \div \frac{7}{10} \text{ of } \frac{3}{4} \right) \div \frac{4}{9} - \left(\frac{7}{16} \div 10\frac{1}{2} \times 7\frac{1}{5} \right) \times \frac{5}{12} \\ & = \left(\frac{7}{5} \div \frac{7}{10} \times \frac{3}{4} \right) \div \frac{4}{9} - \left(\frac{7}{16} \div \frac{21}{2} \times \frac{36}{5} \right) \times \frac{5}{12} \\ & = \left(\frac{7}{5} \div \frac{21}{40} \right) \div \frac{4}{9} - \left(\frac{7}{16} \times \frac{2}{21} \times \frac{36}{5} \right) \times \frac{5}{12} \\ & = \left(\frac{7}{5} \times \frac{40}{21} \right) \div \frac{4}{9} - \left(\frac{12}{40} \times \frac{5}{12} \right) \\ & = \left(\frac{8}{3} \times \frac{9}{4} \right) - \left(\frac{12}{40} \times \frac{5}{12} \right) \\ & = 6 - \frac{1}{8} \\ & = \frac{48-1}{8} \\ & = \frac{47}{8} \end{aligned}$$

Question 69

The ratio of speeds of A and B is 3 : 5. If A takes 24 minutes more than to cover a certain distance, then how much time (in minutes) will B take to cover the same distance ?

- A 36
- B 40
- C 18
- D 20

Answer: A

Explanation:

Ratio of speeds of A and B = 3 : 5

Ratio of time taken = 5 : 3

Let time taken by A and B be 5x and 3x respectively.

Then, according to the question, 5x-3x=24 = x=12

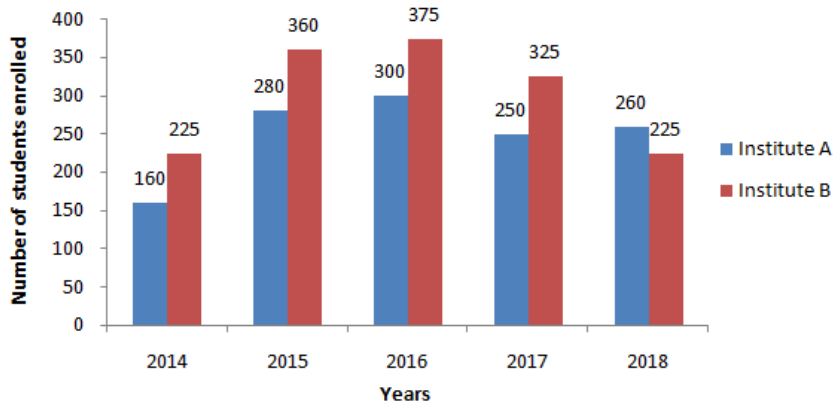
Hence, time taken by A

Hence B will take = 3 × 12 = 36 mins.

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Instructions

The given Bar Graph presents the number of students enrolled for a vocational course in institutes A and B during a period of five years.



Question 70

The total number of students enrolled in A during 2014, 2016 and 2018 is what percentage (correct to one decimal place) of the total number of students enrolled in B during the five years?

- A 47.7
- B 46.8
- C 43.4
- D 44.6

Answer: A

Explanation:

Total numbers of students enrolled in A in 2014, 2016 and 2018 = $160+300+260=720$

Total numbers of students enrolled in all the five years = $225+360+375+325+225=1510$

Required percentage = $\frac{720}{1510} \times 100 = 47.70\%$.

Question 71

In which year the number of students enrolled in B is $x\%$ more, where $25 < x < 30$, than the number of students enrolled in A in the same year?

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

Answer: B

Explanation:

$$2014 = \frac{225-160}{160} \times 100 = 40.625$$

$$2015 = \frac{360-280}{280} \times 100 = 28.571\%$$

$$2016 = \frac{375-300}{300} \times 100 = 25\%$$

$$2017 = \frac{325-250}{250} \times 100 = 30\%$$

Required year is 2015.

Question 72

The average number of students (per year) enrolled in B during 2015, 2016 and 2018 is what percentage more than the number of students enrolled in A during 2017?

- A 30
- B 25
- C 22
- D 28

Answer: D

Explanation:

$$\text{Average of B in the given years} = \frac{360+375+225}{30} = 320$$

$$\text{Required percentage} = \frac{(320-250)}{250} \times 100 = 28\%.$$

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Instructions

For the following questions answer them individually

Question 73

Given four different numbers, the average of first three numbers is four times the fourth number and the average of all the four numbers is 52. What is the average of the first three numbers?

- A 64
- B 70
- C 65
- D 39

Answer: A

Explanation:

Let the four numbers are a, b, c, d

$$a+b+c+d=4 \times 52 = 208$$

$$\frac{a+b+c}{3} = 4d$$

$$a+b+c=12d$$

add number d in both side

$$a+b+c+d=13d$$

$$208=13d$$

$$d=16$$

So, required average = $4 \times 16 = 64$.

Question 74

The price of a commodity is increased by 36% and the quantity purchased is decreased by 30%. What is the percentage increase/decrease in the amount spent on the commodity?

- A 4.8%, decrease
- B 4.8%, increase
- C 6%, decrease

D 6%, increase

Answer: A

Explanation:

Let the price of 100kg commodity is Rs 100

After increased in price

100 kg = Rs 136

Now quantity of commodity decreased = 70 kg

70 kg commodity price = $\frac{70 \times 136}{100} = Rs\ 95.20$

Decreased in amount = $100 - 95.20 = 4.8\%$.

Question 75

If $\frac{1}{1-\sin\theta} + \frac{1}{1+\sin\theta} = 4 \sec\theta$, $0^\circ < \theta < 90^\circ$, then the value of $(3 \cot\theta + \operatorname{cosec}\theta)$ is:

A $4\sqrt{3}$

B $5\sqrt{3}$

C $\frac{5\sqrt{3}}{3}$

D $\frac{2\sqrt{3}}{3}$

Answer: C

Explanation:

$$\frac{1}{1-\sin\theta} + \frac{1}{1+\sin\theta} = 4 \sec\theta$$

$$\frac{2}{1-\sin^2\theta} = \sec\theta$$

$$\frac{2}{\cos^2\theta} = \sec\theta$$

$$2 \sec^2\theta = \sec\theta$$

$$\sec\theta = 2$$

$$\frac{h}{b} = 2$$

$$p = \sqrt{4-1} = \sqrt{3}$$

$$(3 \cot\theta + \operatorname{cosec}\theta) = 3 \times \frac{1}{\sqrt{3}} + \frac{2}{\sqrt{3}} = \frac{5}{\sqrt{3}}$$

$$\frac{5}{\sqrt{3}} \times \frac{\sqrt{3}}{\sqrt{3}} = \frac{5\sqrt{3}}{3}$$

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English

Instructions

For the following questions answer them individually

Question 76

Select the most appropriate antonym of the given word.

DENSE

A sparse

B crammed

- C piled
- D jammed

Answer: A

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Question 77

Select the most appropriate meaning of the given idiom.
Hanging by a thread

- A in a sorry or humble state
- B be in a dangerous situation
- C be extremely weak
- D unable to act as desired

Answer: B

Question 78

Select the word which means the same as the group of words given.
rapid increase in the number or amount of something

- A paucity
- B proliferation
- C promotion
- D propensity

Answer: B

Question 79

Select the most appropriate word to fill in the blank.
During the elections political parties try to _____ their rivals in order to gain advantage.

- A vilify
- B covet
- C laud
- D commend

Answer: A

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Question 80

Select the most appropriate meaning of the given idiom.
To shake off

- A to pass off
- B to recollect
- C to denounce
- D to get rid of

Answer: D

Question 81

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

- A. Once Oliver made a big snowman.
- B. The fat snowman wore an old top hat and a muffler.
- C. Now, it looked very grand indeed and Oliver's friends loved it.
- D. It was as big as him but much fatter.

- A ADBC
- B DCAB
- C CBAD
- D ACBD

Answer: A

Question 82

Select the most appropriate synonym of the given word.

ENTANGLE

- A clarify
- B implicate
- C exclude
- D release

Answer: B

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Question 83

Select the correct passive form of the given sentence.

The merchant brought many gifts for his family from India.

- A Many gifts were brought by the merchant for his family from India.
- B Many gifts brought by the merchant for his family from India.
- C His family were brought by the merchant for many gifts from India.
- D Many gifts are brought by the merchant for his family from India.

Answer: A

Question 84

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

India's largest car maker is evaluating the launch to a small electric car next year.

- A is evaluating the launch
- B to a small electric car
- C next year
- D India's largest car maker

Answer: B

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:

People make plastic products by mixing the plastic with additives. The additives (1) _____ it difficult to recycle the plastic. To recycle plastic things, (2) _____ grind them up first, but this new (3) _____ is not easy to use again. A laboratory in California made a new type (4) _____ plastic to deal with this problem. (5) _____ scientists put the new plastic in a highacid solution, the plastic and the additives break apart. People can then easily reuse the plastic.

Question 85

Select the most appropriate option for blank No. 1.

- A makes
- B is making
- C was making
- D make

Answer: D

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Question 86

Select the most appropriate option for blank No. 2.

- A personnel
- B human beings
- C persons
- D people

Answer: D

Question 87

Select the most appropriate option for blank No. 3 .

- A thing
- B material

C component

D object

Answer: B

Question 88

Select the most appropriate option for blank No. 4.

A of

B to

C in

D with

Answer: A

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Question 89

Select the most appropriate option for blank No. 5.

A Then

B But

C When

D Until

Answer: C

Instructions

For the following questions answer them individually

Question 90

Select the most appropriate word to fill in the blank.
He once had a very frightening _____ with a wild bull.

A commitment

B appointment

C enterprise

D encounter

Answer: D

Question 91

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

Living in air

A heavenly

B visual

- C aerial
- D feathery

Answer: C

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Question 92

Select the wrongly spelt word.

- A agitation
- B aggrasive
- C agreement
- D agriculture

Answer: B

Question 93

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**.

Two senior officers have been entrusted with the responsibility by organize the reception of the guest.

- A for organize
- B to organizing
- C of organizing
- D No improvement

Answer: C

Question 94

Select the most appropriate synonym of the given word.

ERODE

- A build
- B fix
- C disintegrate
- D preserve

Answer: C

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Question 95

Select the correct indirect form of the given sentence.

Bhola said to his friend, "How can I make this charcoal white?"

- A Bhola asked his friend how can I make this charcoal white.

- B Bhola asked his friend how could he make that charcoal white.
- C Bhola asked his friend how he could make that charcoal white.
- D Bhola told his friend how he could make that charcoal white.

Answer: C

Question 96

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

- A. But once when Mark disturbed the whole class with his pranks I had to reprimand him.
- B. He was in third grade when I taught at Saint Mary's School.
- C. All 34 students were dear to me, but Mark Eklund, was one in a million.
- D. He had a happy-to-be-alive attitude that made even his occasional mischievousness delightful.

- A ADBC
- B BADC
- C CADB
- D CBDA

Answer: D

Question 97

Select the most appropriate antonym of the given word.

EXAGGERATE

- A overdo
- B compress
- C amplify
- D heighten

Answer: B

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Question 98

Select the wrongly spelt word.

- A glory
- B gobbel
- C goggles
- D global

Answer: B

Question 99

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

Many of China's exports has been redirected to the domestic market in view of the more consumption-driven economy.

- A Many of China's exports
- B has been redirected
- C to the domestic market
- D in view of the more consumption-driven economy

Answer: B

Question 100

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**.

He has been solving this sum for a couple of hours but he did not solve it yet.

- A has not solved it
- B has not solve it
- C No improvement
- D had not solved it

Answer: A

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