



SSC CHSL 5 July 2019 Shift-3

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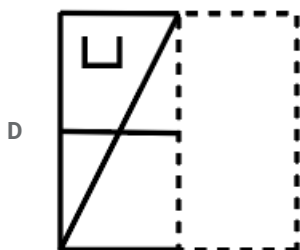
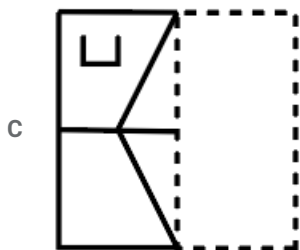
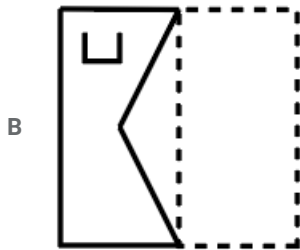
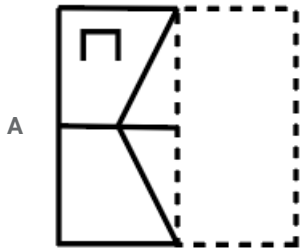
Reasoning

Instructions

For the following questions answer them individually

Question 1

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.



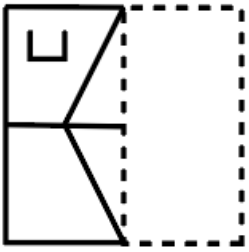
Answer: C

Explanation:

The left side of the dotted line will remain same and the lines on the right side of the dotted line will align with the vertical line on the left side when it is rotated at dotted line.

The shape symbol U on the top right will remain same after rotation.

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



Hence, the correct answer is Option C

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Question 2

In a code language, PROMOTE is written as QTROGVQ. How will LICENSE be written as in that language?

- A EKNGGUP
- B NKEGGUP
- C EKMHHUP
- D EKNGPUG

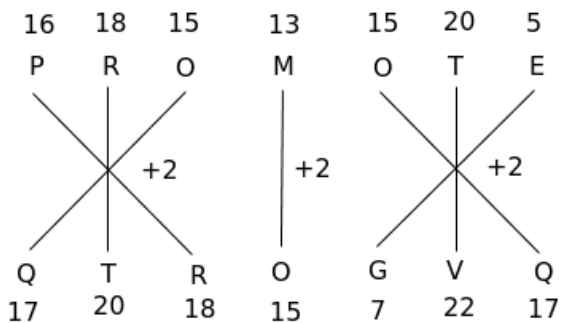
Answer: A

Explanation:

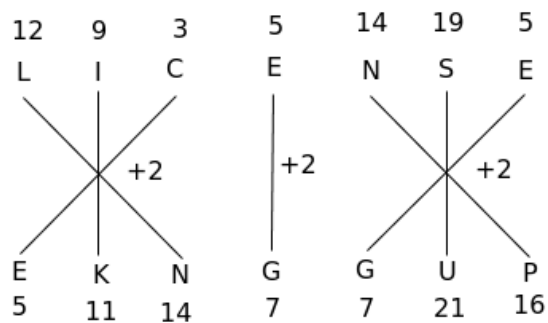
Given,

PROMOTE is written as QTROGVQ in the code language

The logic is shown in the below figure



Similarly



∴ LICENSE will be written as EKNGGUP in the code language

Hence, the correct answer is Option A

Question 3

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 ice creams are juices.

No juice is chocolate.

Conclusions:

I. Some chocolates are ice-creams.

II. Some juices are ice-creams.

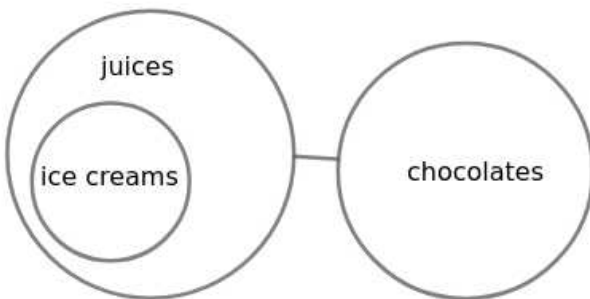
III. No ice-cream is chocolate.

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

Answer: B

Explanation:

The basic diagram for the given statements is



I. Some chocolates are ice-creams

From the basic diagram, No chocolate is ice-cream. Hence Conclusion I do not follow.

II. Some juices are ice-creams

From the basic diagram, Some juices are ice-creams. Hence Conclusion II follows.

III. No ice-cream is chocolate

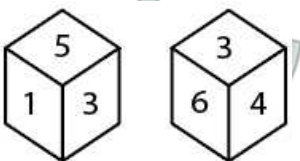
From the basic diagram, No ice-cream is chocolate. Hence Conclusion III follows.

∴ Only Conclusion II and III follows the given statements

Hence, the correct answer is Option B

Question 4

Two different positions of the same dice are shown below, the six faces of which are numbered 1 to 6. Find the number opposite to the face having 3.



- A 6
- B 1
- C 2

D 4

Answer: C

Explanation:

From the first position of the dice, 3 is not opposite to 1 and 5

From the second position of the dice, 3 is not opposite to 4 and 6

⇒ 3 is opposite to the remaining number 2

Hence, the correct answer is Option C

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Question 5

Select the set in which the numbers are related in the same way as are the numbers of the following set.
(88, 56, 72)

A (34, 28, 21)

B (66, 48, 57)

C (62, 48, 52)

D (18, 24, 28)

Answer: B

Explanation:

$$\frac{88+56}{2} = \frac{144}{2} = 72$$

Similarly,

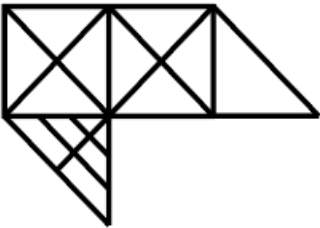
$$\frac{66+48}{2} = \frac{114}{2} = 57$$

∴ (66, 48, 57) is related in the same way as (88, 56, 72)

Hence, the correct answer is Option B

Question 6

How many triangles are present in the given figure ?



A 32

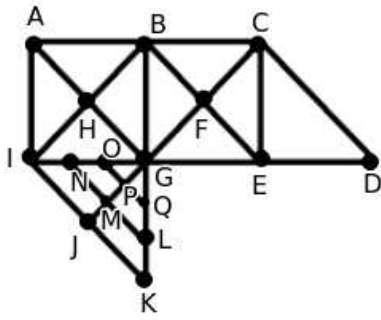
B 31

C 29

D 30

Answer: D

Explanation:



The different triangles in figure GIK are GPO, GPQ, GOQ, GMN, GMK, GNL, GJI, GJK, GIK

Number of triangles in figure GIK = 9

The different triangles in figure ABGI are AHB, BHG, GHI, IHA, AGI, AGB, BAI, BGI

Number of triangles in figure ABGI = 8

Figure BCEG is similar to figure ABGI. So number of triangles in figure BCEG is equal to number of triangles in figure ABGI.

⇒ Number of triangles in figure BCEG = 8

The remaining triangles in the given figure are IBE, GCD, AGE, CED, BIK

Number of remaining triangles in the given figure = 5

∴ Total number of triangles in the given figure = 9 + 8 + 8 + 5 = 30

Hence, the correct answer is Option D

Question 7

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

- A SWAE
- B AFIM
- C UYCG
- D IMQU

Answer: B

Explanation:

Each of them have a gap of 3 alpha-bates between them except option B

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

∴ Option B is the answer.

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Question 8

Arrange the following activities in a logical and meaningful order.

1. Television audio defect
2. Restart enjoying
3. Contact mechanic
4. Television repair done
5. Switch on television

A 3, 5, 1, 2, 4

B 4, 5, 1, 3, 2

C 5, 1, 3, 4, 2

D 5, 1, 4, 2, 3

Answer: C

Explanation:

After switching on television, if there is an audio defect in the television we will contact mechanic for television repair. After the repair is done we will restart enjoying.

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

Hence, the correct answer is Option C

Question 9

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

A Rectangle

B Circle

C Triangle

D Diagram

Answer: D

Explanation:

Rectangle, Circle, Triangle, each of them is a geometrical figure But option D is different as "Diagram" is General term for any figure.

∴ Option D is the answer.

Question 10

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.

Architect : House map

A Teacher : Writer

B Doctor : Hospital

C Carpenter : Furniture

D Lawyer : Court

Answer: C

Explanation:

As Architect makes House map So as Carpenter makes Furniture.

∴ Option C is the answer.

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Question 11

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 118

B 127

C 130

D 129

Answer: B

Explanation:

From Given options, 127 is a prime number, Others are not, So

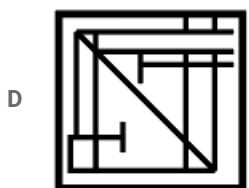
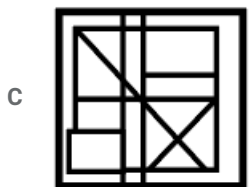
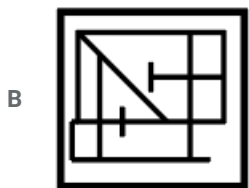
∴ Option B is the answer

Question 12

Select the option in which Figure-X is embedded. (Rotation is not allowed)



Figure-X



Answer: C

Explanation:



∴ Option C is the answer

Question 13

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

28, 32, 41, 57, 82, ?

A 120

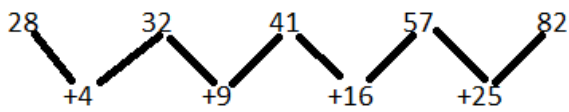
B 118

C 122

D 116

Answer: B

Explanation:



$$28 + 2^2 = 32$$

$$32 + 3^2 = 41$$

$$41 + 4^2 = 57$$

$$57 + 5^2 = 82$$

$$82 + 6^2 = 118$$

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Question 14

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

(4, 9, 16)

A (36, 81, 100)

B (25, 36, 64)

C (16, 36, 49)

D (49, 64, 81)

Answer: D

Explanation:

Given (4,9,16) are Squares of consecutive numbers 2,3,4 i.e. $2^2, 3^2, 4^2$

So from option only D satisfies this condition.

As $(49,64,81) = (7^2, 8^2, 9^2)$

Question 15

If LUCRATIVE is coded as 333912945, then how will AMSTERDAM be coded as?

A 149248414

B 131458311

C 141248414

D 141259414

Answer: D

Explanation:

$$L = 1 + 2 = 3$$

$$U = 2 + 1 = 3$$

$$C = 3$$

$$R = 1 + 8 = 9$$

$$A = 1$$

$$T = 2 + 0 = 2$$

$$I = 9$$

$$V = 2 + 2 = 4$$

$$E = 5$$

Similarly,

$$A = 1$$

$$M = 1 + 3 = 4$$

$$S = 1 + 9 = 10 = 1 + 0 = 1$$

$$T = 2 + 0 = 2$$

$$E = 5$$

$$R = 1 + 8 = 9$$

$$D = 4$$

$$A = 1$$

$$M = 1 + 3 = 4$$

∴ AMSTERDAM be coded as 141259414

Hence, the correct answer is Option D

Question 16

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

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

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

$A \div B$ means 'A is daughter of B'

If $F \times R \times S \div G - P \div X$, then how is X related to R ?

- A Maternal grandfather or maternal grandmother
- B Father or mother
- C Paternal grandfather or paternal grandmother
- D Grandson or granddaughter

Answer: A

Explanation:

by above equation we can conclude F R S are sisters and G is Father/Mother of FRS and G is Husband of P and also P is daughter of X therefore P is mother of F R S, X is maternal grandfather or maternal grandmother of R

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Question 17

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

4 R F 8 9 3 Z f k 2

A 4 R F 8 9 3 Z f k 2

B 2 k f Z 3 9 8 F R 4

C 4 R F 8 9 3 Z f k 2

D 2 k f Z 3 9 8 F R 4

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).

The number 2 which is open towards left will be open towards right in the mirror image

∴ The mirror image of the given figure is

2 k f Z 3 9 8 F R 4

Hence, the correct answer is Option D

Question 18

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

$$211 \times 14 + 627 \div 33 - 17 = 520$$

A + and -

B + and ÷

C ÷ and ×

D × and -

Answer: D

Explanation:

if we interchange + and - answer would be 2952

if we interchange + and ÷ answer would be 20.71

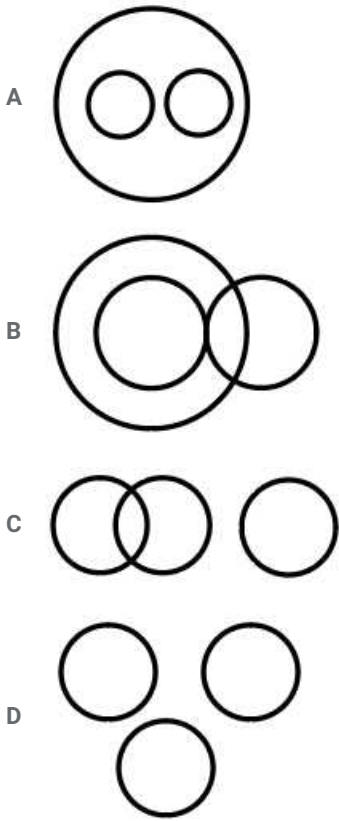
if we interchange ÷ and × answer would be 20689.07

if we interchange × and - answer would be 520

Question 19

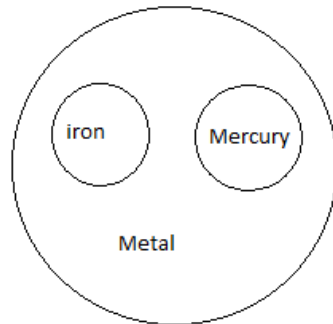
Select the Venn diagram that best illustrates the relationship between the following classes.

Metal, Iron, Mercury



Answer: A

Explanation:



Iron is metal and mercury is also a metal so both of them fall under same category

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Question 20

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.
2 : 8

A 9 : 629

B 11 : 1321

C 7 : 343

D 8 : 502

Answer: C

Explanation:

2:8, which means $2^{\text{power}(3)}=8$

like that $7^{\text{power}(3)}=343$ i.e 7:343 is the correct answer

Question 21

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.

GSDL : JPGI :: UCWF : ?

A XZZC

B YZZD

C WZZB

D XYYC

Answer: A

Explanation:

Sequence is the term of 1st letter is +3 and 2nd letter is -3 i.e.

G+3=J Similarly U+3=X

S-3=P C-3=Z

D+3=G W+3=Z

L-3=I F-3=C

so UCWF:XZZC

Question 22

'Disease' is related to 'Diabetes' in the same way as 'Vehicle' is related to '_____'.


A Fuel

B Car

C Chassis

D Driver

Answer: B

Explanation:

Diabetes is type of a disease same as car is also type of a vehicle

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Question 23

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

x q _ _ m c c _ _ q p f m _ _ b x _ _ f m c _ b

- A pfbxccqpc
- B sfbcccqpc
- C qfbxccqpc
- D pfbxcxqpc

Answer: A

Explanation:

Series is x q p f m c c b it is the repeated series so the series is

x q p f m c c b x q p f m c c b x q p f m c c b

Question 24

Three persons A, B and C have different amounts of rupees with them. If A takes ₹12 from C, A will have equal amount as B has. A and B together have total ₹102. How many rupees does A have ?

- A 50
- B 57
- C 45
- D 55

Answer: C

Explanation:

$$A+12=B \dots\dots Eq1$$

$$A+B=102$$

$$\Rightarrow B=102-A \dots\dots Eq2$$

putting the value of Eq2 in Eq1

$$A+12=102-A$$

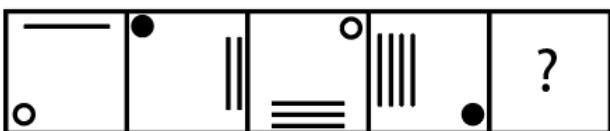
$$2A=102-12$$

$$2A=90$$

$$A=45$$

Question 25

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





Answer: B

Explanation:

Second image is the 90 degree clockwise rotation with ball color changes to black and one line is adding

similarly third image is also 90 degree clockwise rotation with ball color to its original as of first image i.e white and one line is adding

for fourth image is also rotation of 90 degree with ball color change to black and one line adding

For final image same process will follow i.e 90 degree rotation with ball change to original position and color with adding one line extra

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General knowledge

Instructions

For the following questions answer them individually

Question 26

Devotional folk songs called 'Zikir' belong to the Indian state of:

- A Assam
- B West Bengal
- C Uttar Pradesh
- D Odisha

Answer: A

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Question 27

Which one of the following caves is situated in Maharashtra ?

- A Amarnath
- B Borra

C Ellora

D Badami

Answer: C

Question 28

Which of the following lakes is the largest man-made lake in India ?

A Govind Vallabh Pant Sagar

B Dhebar Lake

C Rajsamand Lake

D Maharana Pratap Sagar

Answer: A

Question 29

Which of the following is a Floating National Park of India ?

A Similipal

B Keibul Lamjao

C Namdapha

D Eravikulam

Answer: B

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Question 30

What is the amount of minimum assured monthly pension payable under the Pradhan Mantri Shram Yogi Maan-dhan (PM-SYM) scheme of the Government of India ?

A ₹ 3000

B ₹ 2000

C ₹ 1000

D ₹ 4000

Answer: A

Question 31

Which of the following is waterfall is created by river Sharavathi the highest waterfall in India?

A Athirappilly Falls

B Jog Falls

C Dudhsagar Falls

D Dhuandhar Falls

Answer: B

Question 32

Who presides over the joint sitting of the two Houses of Parliament?

A President

B Prime Minister

C The Vice President

D The Speaker of the Lok Sabha

Answer: D

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Question 33

Who is the author of the book 'Changing India'?

A Narendra Modi

B Manmohan Singh

C A P J Abdul Kalam

D Shashi Tharoor

Answer: B

Question 34

Light rays enter the eye through the outer, transparent structure at the front of the eye called the _____.

A Optic nerve

B Iris

C Lens

D Cornea

Answer: D

Question 35

Which cyclone has hit India in the month of May 2019 ?

A Cyclone Nargis

B Cyclone Gaja

C Cyclone Hudhud

D Cyclone Fani

Answer: D

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Question 36

What is the present Statutory Liquidity Ratio (SLR) announced by the Reserve Bank of India with effect from 1st January 2019?

- A 19.25 per cent
- B 19.50 per cent
- C 19.00 per cent
- D 19.75 per cent

Answer: B

Question 37

With which sport is the Indian player Neeraj Chopra associated ?

- A Billiards
- B Boxing
- C Javelin Throw
- D Swimming

Answer: C

Question 38

Alexander invaded India in _____.

- A 323 BC
- B 326 BC
- C 454 BC
- D 467 BC

Answer: B

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Question 39

Somatotropin' is another name for _____.

- A Tear gas
- B Laughing gas
- C Growth hormone
- D Digestive juice

Answer: C

Question 40

Paithani Saree belongs to the state of _____.

- A Tamil Nadu
- B Maharashtra
- C Kerala
- D Karnataka

Answer: B

Question 41

In May 2019, Bengaluru-based medical doctor _____ was honoured with the 'Global Asian of the Year Award 2018-2019' for her contributions to the ecosystem and women healthcare.

- A Shashi Wadhwa
- B Hema Divakar
- C Indira Hinduja
- D Neelam Kler

Answer: B

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Question 42

Konark Temple in Odisha was built by which of the following kings?

- A Anantavarman Chodagangadeva
- B Narasimha Deva I
- C Ananga Bhima Deva
- D Bhanu Deva

Answer: B

Question 43

Who developed the operating system Linux started as a project by a student of Finland ?

- A Linus Torvalds
- B Leonard M. Adleman
- C Barbara Liskov
- D Leslie Lamport

Answer: A

Question 44

In 1991, India's first indigenous supercomputer named _____ was developed by Vijay Bhatkar.

- A Prayas 3000
- B Prayog 2000
- C Param 8000
- D Pragati 5000

Answer: C

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Question 45

The quorum to constitute a sitting of the Lok Sabha is _____ of the total number of Members of the House under article 100(3) of the Constitution of India.

- A one-tenth
- B half
- C one-third
- D one-fifth

Answer: A

Question 46

With which of the following sports is the term 'Jab' associated ?

- A Cricket
- B Basketball
- C Billiards
- D Boxing

Answer: D

Question 47

In 2019 who became the first Indian to win an election in Japan ?

- A Yogendra Puranik
- B Charandeep Singh
- C Kishore Kafley
- D Piyush Jindal

Answer: A

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Question 48

Who won the American Reality Show, 'The World's Best' 2019 for displaying his talent as a pianist?

- A Utsav Lal
- B Anil Srinivasan
- C Lydian Nadhaswaram
- D Stephen Devassy

Answer: C

Question 49

_____ from India won the girls' title at the IBSF World Under-16 Snooker Championships held in 2018.

- A Keerthana Pandian
- B Arantxa Sanchis
- C Varsha Sanjeev
- D Vidya Pillai

Answer: A

Question 50

_____ is the primary acid present in ripe bananas.

- A Sulphuric Acid
- B Malic Acid
- C Formic Acid
- D Hydrochloric Acid

Answer: B

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Quant

Instructions

For the following questions answer them individually

Question 51

The average age of four brothers is 14 years. If their father is also included, the average is increased by 4 years. The age of the father (in years) is:

- A 36
- B 34
- C 40
- D 38

Answer: B

Explanation:

Let the age of the four brothers be X_1, X_2, X_3, X_4 and the age of the father be F

According to question

$$\frac{X_1 + X_2 + X_3 + X_4}{4} = 14$$

$$\Rightarrow X_1 + X_2 + X_3 + X_4 = 14 * 4 = 56 \dots \text{Eq1}$$

$$\text{And } \frac{X_1 + X_2 + X_3 + X_4 + F}{5} = 18 \dots \text{Eq2}$$

Putting Eq1 in Eq2

$$(56 + F) = 18 * 5 = 90$$

$$56 + F = 90$$

$$F = 90 - 56$$

$$F = 34$$

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Question 52

If $x = 2 - \sqrt{3}$ then the value of $x^3 - x^{-3}$ is:

- A $30\sqrt{2}$
- B $-30\sqrt{3}$
- C $30\sqrt{3}$
- D $-30\sqrt{2}$

Answer: B

Question 53

If $3^{\sqrt[3]{x}} + 4^{\sqrt[3]{x}} = 5^{\sqrt[3]{x}}$ then the value of x is:

- A 1
- B 4
- C 2
- D 8

Answer: D

Question 54

If $X\%$ of Y is 150 and $Y\%$ of Z is 300, then the relation between X and Z is:

- A $z = \frac{x}{3}$
- B $z = \frac{x}{2}$
- C $z = 2x$
- D $z = x$

Answer: C

Explanation:

$$X \% \text{ of } Y = 150 \text{ i.e. } Y = \frac{(150 \times 100)}{X} \dots\dots \text{Equation...}(1)$$

$$Z \% \text{ of } Y = 300 \text{ i.e. } Z = \frac{(300 \times 100)}{Y} \dots\dots \text{Equation...}(2)$$

Substitute value of Y in Equation...(2)

$$\frac{(300 \times 100)}{(150 \times 100)}$$

$$Z = x$$

$$Z = \frac{(300 \times 100) \times X}{150 \times 100}$$

$$Z = 2X$$

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Question 55

The simplified value of $1\frac{1}{7} \div \left\{ 7 - \left(3\frac{1}{5} + 5 \right) \div \frac{8}{5} \right\}$ is:

A $\frac{19}{16}$

B $\frac{19}{7}$

C $\frac{19}{8}$

D $\frac{19}{64}$

Answer: D

Explanation:

$$1\frac{1}{7} \div \left\{ 7 - \left(3\frac{1}{5} + 5 \right) \div \frac{8}{5} \right\}$$

$$= \frac{16}{7} \div \left\{ 7 - \left(\frac{16}{5} + 5 \right) \div \frac{8}{5} \right\}$$

$$= \frac{19}{8} \div \frac{1}{7}$$

$$= \frac{19}{8} \times 8$$

$$= 19$$

Question 56

Two numbers are in the ratio of 7 : 5. On diminishing each of them by 40, the ratio becomes 27 : 17. The sum of the numbers is:

A 300

B 240

C 325

D 275

Answer: A

Explanation:

let two numbers be X_1 and X_2

Acc to question $X_1 : X_2 = 7 : 5$ i.e. $X_1/X_2 = 7/5 \Rightarrow X_1 = (7/5) \times X_2 = 1.4 \times X_2 \dots\dots \text{Eq1}$

$$(X_1 - 40)/(X_2 - 40) = 27/17 \dots \text{Eq2}$$

Putting Eq1 in Eq2

$$(1.4 \times X_2 - 40) / (X_2 - 40) = 27/17$$

$$\Rightarrow (1.4 \times X_2 - 40) \times 17 = 27 \times (X_2 - 40)$$

$$\Rightarrow 23.8 \times X_2 - 680 = 27 \times X_2 - 1080$$

$$\Rightarrow 3.2 \times X_2 = 400$$

$$\Rightarrow X_2 = 125 \dots \text{Eq3}$$

Put value of X_2 in Eq1

$$X_1 = 1.4 \times X_2$$

$$X_1 = 1.4 \times 125$$

$$X_1 = 175$$

ie sum of two numbers $X_1 + X_2 = 125 + 175 = 300$

Question 57

The ratio between the speeds of two trains is 5 : 7. If the first train covers 300 km in 3 hours, then the speed (in km/h) of the first train is:

- A 120
- B 140
- C 150
- D 100

Answer: D

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Question 58

The chord of the contact of tangents drawn from point on the circle $x^2 + y^2 = a^2$ to the circle $x^2 + y^2 = b^2$ touches the circle $x^2 + y^2 = c^2$ such that $b^p = a^m c^n$. where $m, n, p \in \mathbb{N}$, and m, n, p are prime to each other, then the value of $m + n + p + 3$ is:

- A 5
- B 6
- C 2
- D 7

Answer: D

Question 59

A person purchased a vehicle for ₹4,90,828 and sold it for ₹5,52,920. What is the percent profit earned on this vehicle (correct to two decimal places)?

- A 19.55%
- B 11.55%
- C 15.51%

D 12.65%

Answer: D

Question 60

If $6(\sec^2 59^\circ - \cot^2 31^\circ) - \frac{2}{3} \sin 90^\circ - 3 \tan^2 56^\circ y \tan^2 34^\circ = \frac{y}{3}$, then the value of y is:

A $-\frac{2}{3}$

B $\frac{8}{5}$

C $\frac{2}{3}$

D $-\frac{8}{5}$

Answer: B

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Question 61

The ratio of the areas of two triangles ABC and PQR is 4: 5 and the ratio of their heights is 5 : 3. The ratio of the bases of triangle ABC to that of triangle PQR is:

A 25 : 12

B 12 : 25

C 11 : 15

D 15 : 11

Answer: B

Question 62

Two students, A and B, appeared for an examination. A secured 8 marks more than B and the marks of the former was 55% of the sum of their marks. The marks obtained by A and B, respectively, are:

A 44, 36

B 40, 32

C 36, 28

D 38, 30

Answer: A

Question 63

A circle is inscribed in a triangle ABC. It touches sides AB, BC and AC at the points P, Q and R respectively. If BP = 5.4 cm, CQ = 7.3 cm and AR = 6.1 cm, then the perimeter (in cm) of the $\triangle ABC$ is:

A 37

B 37.6

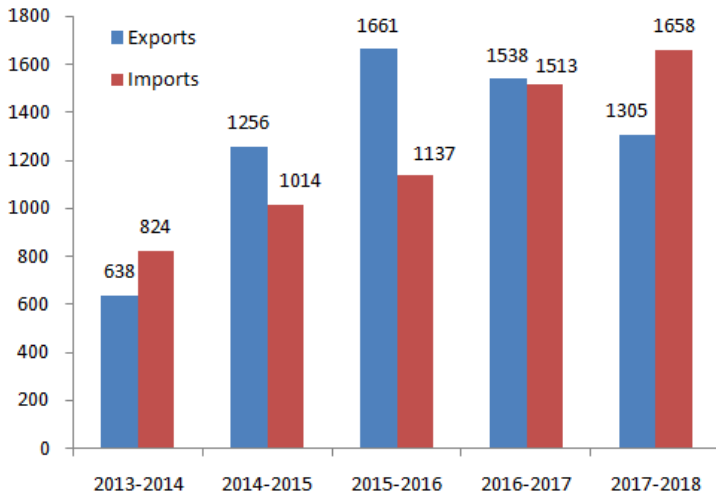
C 37.25

Answer: B

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Question 64

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 and Exports taken together is the lowest in comparison to its previous financial year?

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

Answer: A

Explanation:

Total Imports and Exports in 2016-2017 = $1538 + 1513 = 3051$

Total Imports and Exports in 2015-2016 = $1661 + 1137 = 2797$

$$\% \text{increase} = \frac{3051 - 2797}{2797} \times 100 = \frac{254}{2797} \times 100 = 9\%$$

Question 65

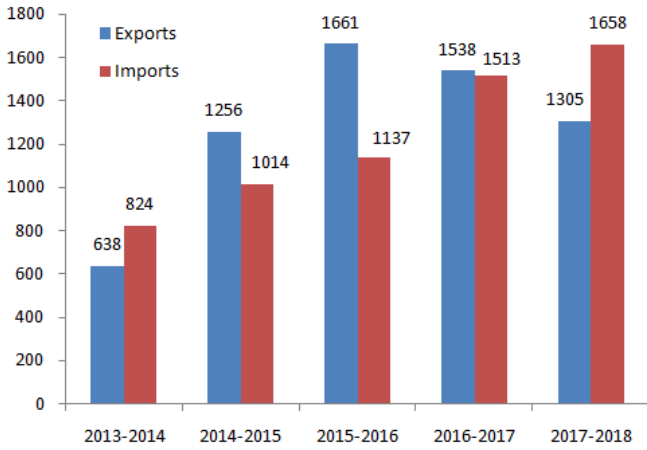
In a $\triangle ABC$, the bisectors of $\angle B$ and $\angle C$ meet at point O within the triangle. If $\angle A = 132^\circ$, then the measure of $\angle BOC$ is:

- A 132°
- B 84°
- C 66°
- D 156°

Answer: D

Question 66

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 absolute difference of the Exports to those of Imports is the lowest?

- A 2013-2014
- B 2015-2016
- C 2016-2017
- D 2014-2015

Answer: C

Explanation:

difference of the Exports to those of Imports in 2013-2014 = $824 - 638 = 186$

difference of the Exports to those of Imports in 2014-2015 = $1256 - 1014 = 242$

difference of the Exports to those of Imports in 2015-2016 = $1661 - 1137 = 524$

difference of the Exports to those of Imports in 2016-2017 = $1538 - 1513 = 25$

difference of the Exports to those of Imports in 2017-2018 = $1658 - 1305 = 353$

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Question 67

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

- A 3.6
- B -3.6
- C 2.4
- D -2.4

Answer: B

Explanation:

Given, $(x + 7)^3 + (2x + 8)^3 + (2x + 3)^3 = 3(x + 7)(2x + 8)(2x + 3)$

$\Rightarrow (x + 7)^3 + (2x + 8)^3 + (2x + 3)^3 - 3(x + 7)(2x + 8)(2x + 3) = 0$

We know that if $a^3 + b^3 + c^3 - 3abc = 0$ then $a + b + c = 0$

$\Rightarrow (x + 7) + (2x + 8) + (2x + 3) = 0$

$$\Rightarrow 5x + 18 = 0$$

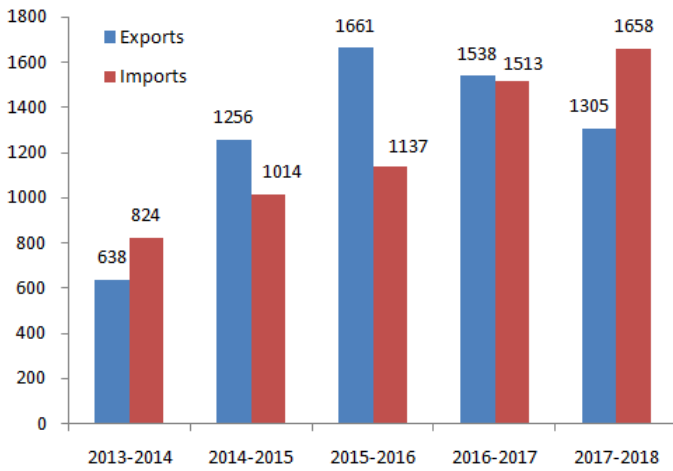
$$\Rightarrow x = \frac{-18}{5}$$

$$\Rightarrow x = -3.6$$

Hence, the correct option is Option B

Question 68

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 absolute difference between Exports and Imports (in tonnes) during the five financial years?

- A 256
- B 266
- C 264
- D 260

Answer: B

Explanation:

The average of absolute difference between Exports and Imports during the five financial years = $\frac{|638-824|+|1256-1014|+|1661-1137|+|1538-1513|+|1305-1658|}{5} = \frac{186+242+524+25+353}{5} = \frac{1330}{5} = 266$ tonnes

Question 69

If $\cos x = \frac{-1}{2}$ and $\pi < x < \frac{3\pi}{2}$, then the value of $2 \tan^2 x + 3 \operatorname{cosec}^2 x$ is:

- A 10
- B 16
- C 8
- D 4

Answer: A

Explanation:

Given, $\cos x = \frac{-1}{2}$

$$\Rightarrow \sec x = -2$$

$$\therefore 2 \tan^2 x + 3 \operatorname{cosec}^2 x = 2 (\sec^2 x - 1) + \frac{3}{\sin^2 x}$$

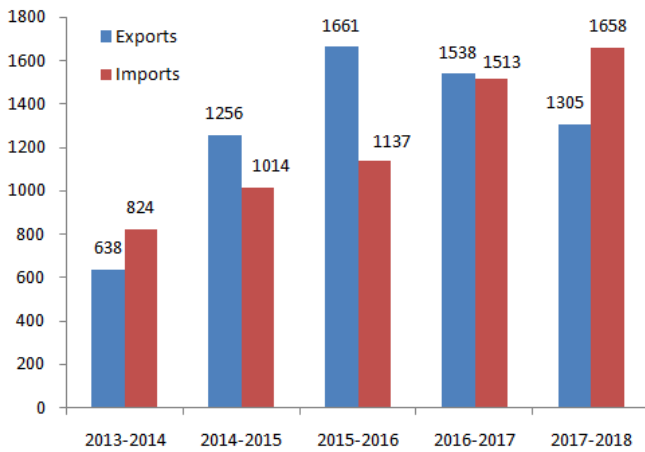
$$\begin{aligned}
 &= 2(\sec^2 x - 1) + 1 - \cos^2 x \\
 &= 2((-2)^2 + 1) + 1 - (-\frac{1}{2})^2 \\
 &= 2(4 - 1) + 1 - \frac{1}{4} \\
 &= 2(3) + \frac{3}{4} \\
 &= 6 + 4 \\
 &= 10
 \end{aligned}$$

Hence, the correct answer is Option A

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Question 70

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 2014-2015, 2015-2016 and 2016-2017 ?

- A 4011 : 4175
- B 4175 : 4011
- C 4455 : 3664
- D 3664 : 4455

Answer: D

Explanation:

Total Imports during 2014-2015, 2015-2016 and 2016-2017 = 1014 + 1137 + 1513 = 3664

Total Exports during 2014-2015, 2015-2016 and 2016-2017 = 1256 + 1661 + 1538 = 4455

∴ Required ratio = 3664 : 4455

Hence, the correct answer is Option D

Question 71

A, B and C can complete a piece of work in 4, 20 and 60 days respectively. Working together, they can complete the one third of the same work in how many days ?

- A $\frac{3}{119}$

B $2\frac{3}{19}$

C $2\frac{1}{19}$

D $1\frac{1}{19}$

Answer: D

Explanation:

Let the total work = T

\Rightarrow Work done by A in 1 day = $\frac{T}{4}$

\Rightarrow Work done by B in 1 day = $\frac{T}{20}$

\Rightarrow Work done by C in 1 day = $\frac{T}{60}$

\therefore Workdone by A,B,C together in 1 day = $\frac{T}{4} + \frac{T}{20} + \frac{T}{60} = \frac{19}{60}T$

\Rightarrow Number of days required for A,B,C to complete total work (T) = $\frac{T}{\frac{19}{60}T} = \frac{60}{19}$

\Rightarrow Number of days required for A,B,C to complete one third of total work ($\frac{T}{3}$) = $\frac{20}{19} = 1\frac{1}{19}$

Hence, the correct option is Option D

Question 72

If a 10-digit number $1230x558y2$ is divisible by 88, then the value of $(5x + 5y)$ is:

A 40

B 20

C 50

D 30

Answer: A

Explanation:

Given, 10-digit number $1230x558y2$ is divisible by 88 then the number must be divisible by 11

If it is divisible by 11 then,

Sum of digits at even place - Sum of digits at odd place = 0 or multiple of 11

$\Rightarrow (2+0+5+8+2) - (1+3+x+5+y) = 0$ or multiple of 11

$\Rightarrow 17 - 9 - (x+y) = 0$ or multiple of 11

$\Rightarrow 8 - (x+y) = 0$ or multiple of 11

If $8 - (x+y) =$ multiple of 11 then $x+y$ is negative which is not a possible case

$\Rightarrow 8 - (x+y) = 0$

$\Rightarrow x+y = 8$

$\therefore 5x+5y = 5(x+y) = 5(8) = 40$

Hence, the correct answer is Option A

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Question 73

There was 25% off on shirt. A lady bought a shirt and got an additional 20% discount for paying in cash and further 10% discount for being a loyal customer. She paid ₹405. What was the price tag (in ₹) on the shirt?

- A 600
- B 650
- C 725
- D 750

Answer: D

Explanation:

Let the initial price be $100x$

the lady has got 25% discount

$$100x \times 25\%$$

$$\Rightarrow 75x$$

she again got 20% discount

$$\Rightarrow 75x \times 20\%$$

$$= 15x$$

$$= 75x - 15x = 60x$$

now she again gets discount of 10%

$$60x \times 10\% = 6x$$

so the final price is $60x - 6x = 54x$

given that she has paid 405 rupees

so, this $54x$ is equivalent to 405 rupees

$$x = 405/54$$

$$= 15/2$$

we assumed that the initial price is $100x$ so $100 \times 15/2$

$$= 750$$

hence answer is option d

Question 74

In triangle ABC, the length of BC is less than twice the length of AB by 3 cm. The length of AC exceeds the length of AB by 9 cm. The perimeter of triangle is 34 cm. The length (in cm) of the smallest side of the triangle is:

- A 9
- B 10
- C 8
- D 7

Answer: D

Explanation:

According to the Problem,

$$BC = 2AB - 3 \dots \dots \dots (1)$$

$$AC = AB + 9 \dots \dots \dots (2)$$

Perimeter of triangle = 34

$$\Rightarrow AB + BC + AC = 34$$

$$\Rightarrow AB + 2AB - 3 + AB + 9 = 34$$

$$\Rightarrow 4AB = 28$$

$$\Rightarrow AB = 7$$

From (1), $BC = 2(7) - 3 = 11$

From (2), $AC = 7 + 9 = 16$

\therefore The length of the smallest side of the triangle is $AB = 7\text{cm}$

Hence, the correct answer is Option D

Question 75

If $\sec \theta = 3x$ and $\tan \theta = \frac{3}{x}$, ($x \neq 0$) then the value of $9(x^2 - \frac{1}{x^2})$ is:

A $\frac{1}{3}$

B $\frac{1}{2}$

C $\frac{1}{4}$

D 1

Answer: D

Explanation:

Given, $\sec \theta = 3x$ and $\tan \theta = \frac{3}{x}$

We know that, $\sec^2 \theta - \tan^2 \theta = 1$

$$\Rightarrow (3x)^2 - \left(\frac{3}{x}\right)^2 = 1$$

$$\Rightarrow 9x^2 - \frac{9}{x^2} = 1$$

$$\Rightarrow 9\left(x^2 - \frac{1}{x^2}\right) = 1$$

Hence, the correct answer is Option D

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English

Instructions

For the following questions answer them individually

Question 76

Select the most appropriate synonym of the given word.

SORDID

A pure

B dirty

C clean

D solid

Answer: B

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Question 77

Select the correctly spelt word.

- A gaity
- B gaiety
- C gayety
- D gaeity

Answer: B

Question 78

Identify the segment which contains the grammatical error.
Each of the pictures have been signed by the football star.

- A signed by
- B Each of
- C have been
- D the pictures

Answer: C

Instructions

Select the most appropriate meaning of the given idiom.

Question 79

Have one's hands full

- A to be very generous
- B to be very rich
- C to be very clumsy
- D to be very busy

Answer: D

Question 80

Face the music

- A get appreciation
- B face the criticism
- C enjoy the harmony
- D face the enemy

Answer: B

Instructions

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For the following questions answer them individually

Question 81

Fill in the blank with the most appropriate word.

The soldiers planned to attack at a precise hour so they _____ their watches.

- A synchronized
- B assessed
- C restored
- D exchanged

Answer: A

Question 82

Select the most appropriate antonym of the given word.

FEROCIOUS

- A fierce
- B prudent
- C cunning
- D gentle

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:

My grandmother is the genealogist of the family. She (1) _____ records of births, deaths, marriages and divorces. She takes the job (2) _____ seriously. She sends (3) _____ to the family whenever something noteworthy (4) _____. We recently had a bulletin about the (5) _____ of a relative who bequeathed his antique furniture to his descendants.

Question 83

Select the most appropriate option to fill in blank number 1

- A promotes
- B produces
- C spreads
- D maintains

Answer: D

Question 84

Select the most appropriate option to fill in blank number 2

- A quick

- B quite
- C quiet
- D quit

Answer: B

Question 85

Select the most appropriate option to fill in blank number 3

- A advertisements
- B notices
- C brochures
- D messages

Answer: D

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Question 86

Select the most appropriate option to fill in blank number 4

- A occurs
- B obtains
- C exists
- D passes

Answer: A

Question 87

Select the most appropriate option to fill in blank number 5

- A damage
- B demise
- C demolition
- D destruction

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. Her father had been stuck in an elevator for six hours.
- B. Esha had heard from her parents about a blackout caused by a sudden storm.
- C. She had to grope in the dark and cook by the candlelight.
- D. Her mother's story had been quite different from his.

- A ADCB
- B BADC
- C CADB
- D BDCA

Answer: B

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Question 89

Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution.
I have a terrible cold during several days now.

- A No substitution
- B had a terrible cold since
- C have had a terrible cold for
- D am having a terrible cold during

Answer: C

Question 90

Select the most appropriate word for the group of words.
One who is indifferent to pleasure or pain

- A wise
- B temperate
- C stoic
- D brave

Answer: C

Question 91

Select the wrongly spelt word.

- A accomplice
- B accommodate
- C accumulate
- D accelerare

Answer: D

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Question 92

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

- A. They used thin twigs called chew sticks as tooth cleaners.
- B. The fuzzy end was rubbed against the teeth to keep them clean.
- C. These sticks were fuzzy at one end.
- D. How did people clean their teeth before the toothbrush was invented?

- A DBCA
- B ACBD
- C BCAD
- D DACB

Answer: D

Question 93

Select the most appropriate antonym of the given word.

MISERY

- A bliss
- B censure
- C poverty
- D dearth

Answer: A

Question 94

Select the most appropriate word for the group of words.

A previous case that might serve as an example or guide in subsequent situations

- A precursor
- B predecessor
- C precedent
- D president

Answer: C

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Question 95

Fill in the blank with the most appropriate word.

The entrepreneur is looking for an _____ to fund his project.

- A aviator
- B invigilator
- C inspector
- D investor

Answer: D

Question 96

Identify the segment which contains the grammatical error.
It was a windy autumn day and leaves were fallen rapidly from the trees.

- A windy autumn day
- B leaves were fallen
- C rapidly from trees
- D It was a

Answer: B

Question 97

Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution.
The shoebill stork can be recognise from its long legs and broad wings.

- A No substitution
- B recognising from it's
- C recognised by its
- D recognise through it's

Answer: C

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Question 98

Select the most appropriate passive form of the given sentence.
The store manager caught the teenager shoplifting.

- A The teenager was caught shoplifting by the store manager.
- B The teenager has been caught shoplifting by the store manager.
- C The teenager is caught shoplifting by the store manager.
- D The store manager is caught shoplifting by the teenager.

Answer: A

Question 99

Select the most appropriate synonym of the given word.
REPRIMAND

- A reproach
- B applaud
- C reward
- D eradicate

Answer: A

Question 100

Select the most appropriate indirect form of the given sentence.
My grandmother said, "I bore six children."

- A My grandmother said that she had borne six children.
- B My grandmother told that she had bore six children.
- C My grandmother said she bore six children.
- D My grandmother said that she has born six children.

Answer: A

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