



SSC CGL 3rd March 2020 Shift-1

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General Intelligence and Reasoning

Instructions

For the following questions answer them individually

Question 1

Which two numbers should be interchanged to make the given equation correct?

$$9 + 7 \times 5 - 18 \div 2 = 3 \times 4 - 10 + 45 \div 5$$

- A 18 and 45
- B 7 and 4
- C 2 and 5
- D 9 and 3

Answer: B

Explanation:

$$9 + 7 \times 5 - 18 \div 2 = 3 \times 4 - 10 + 45 \div 5$$

By the option B,

To interchange the 7 and 4,

$$9 + 4 \times 5 - 18 \div 2 = 3 \times 7 - 10 + 45 \div 5$$

$$9 + 4 \times 5 - 9 = 3 \times 7 - 10 + 9$$

$$9 + 20 - 9 = 21 - 10 + 9$$

$$20 = 20$$

∴ The correct answer is option B.

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Question 2

Arrange the following words in the order in which they appear in an English dictionary.

1. Rightly
2. Rigidly
3. Righteous
4. Rigour
5. Rights

- A 3, 5, 1, 4, 2
- B 3, 1, 5, 4, 2
- C 3, 1, 5, 2, 4
- D 1, 3, 5, 2, 4

Answer: C

Explanation:

Order to according English dictionary,
Righteous, Rightly, Rights, Rigidly, Rigour

∴ The correct answer is option C.

Question 3

Which of the option figures is the exact mirror image of the given figure when the mirror is held at the right side?

RST2PK9LOX

A XOLJKPSTZY

B YSTZPKJLOX

C KSTZPKJLOX

D XOLJKPSTZY

Answer: D

Explanation:

Mirror image -

XOLJKPSTZY

∴ The correct answer is option D.

Question 4

The ratio of the present ages of Asha and Lata is 5 : 6. If the difference between their ages is 6 years, then what will be Lata's age will be after 5 years?

A 35

B 41

C 45

D 50

Answer: B

Explanation:

The ratio of the present ages of Asha and Lata is 5 : 6.

Let the age of Asha and Lata be $5x$ and $6x$ respectively.

The difference between their ages = 6 years

$$6x - 5x = 6$$

$$x = 6$$

$$\text{Age of Lata after 5 years} = 6x + 5 = 6 \times 6 + 5 = 41 \text{ years}$$

∴ The correct answer is option B.

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Question 5

Select the option in which the numbers are related in the same way as are the numbers in the given set.
(269, 278, 296)

A (313, 322, 340)

B (577, 586, 598)

C (419, 430, 448)

D (109, 118, 128)

Answer: A

Explanation:

In (269, 278, 296),

$$2 + 6 + 9 = 17$$

$$2 + 7 + 8 = 17$$

$$2 + 9 + 6 = 17$$

Similarly,

In (313, 322, 340),

$$3 + 1 + 3 = 7$$

$$3 + 2 + 2 = 7$$

$$3 + 4 + 0 = 7$$

∴ The correct answer is option A.

Question 6

Four letter-clusters have been given, out of which three are alike in some manner, while one is different. Select the odd letter-cluster.

A BYGT

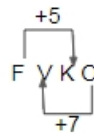
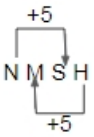
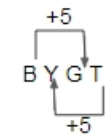
B NMSH

C FVKO

D DWIR

Answer: C

Explanation:



So, Option C is odd.

∴ The correct answer is option C.

Question 7

Amit is the brother of Sonia. Jyoti is the sister of Nikita. Sonia is the daughter of Satish's father. Nikita is the daughter of Kavinder. Jyoti is the mother of Amit. Mukesh is Nikita's only sister's husband. How is Satish related to Kavinder?

A Son

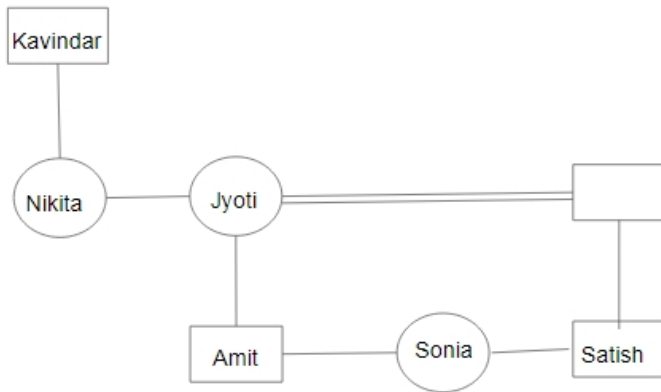
B Brother

C Grandson

D Son-in-law

Answer: C

Explanation:



In the following diagram,
Circle represents female
Square represents male
Single horizontal line represents sibling
Double horizontal line represents couple
Single vertical line represents Mother/Father/Son/Daughter

∴ The correct answer is option C.

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Question 8

Four words have been given, out of which three are alike in some manner, while one is different. Select the odd word.

- A Ferry
- B Yacht
- C Submarine
- D Ship

Answer: C

Explanation:

Only Submarine runs inside the water.

∴ The correct answer is option C.

Question 9

In a certain code language, WARDROBE is written as YXVYXHJIV. How will ACCURATE be written as in that language?

- A BZHPXTBV
- B CZHPYTBV
- C CZGPXTBV
- D DZGPXTBV

Answer: C

Explanation:

$$W + 2 = Y$$

$$A - 3 = X$$

$$R + 4 = V$$

$$D - 5 = Y$$

$R + 6 = X$
 $O - 7 = H$
 $B + 8 = J$
 $E - 9 = V$

Similarly,
 $A + 2 = C$
 $C - 3 = Z$
 $C + 4 = G$
 $U - 5 = P$
 $R + 6 = X$
 $A - 7 = T$
 $T + 8 = B$
 $E - 9 = V$

ACCURATE is written as CZGPXTBV.
 \therefore The correct answer is option C.

Question 10

Select the number that can replace the question mark (?) in the following series.
 17, 21, 30, 46, 71, ?

- A 105
- B 96
- C 107
- D 101

Answer: C

Explanation:

The series follows pattern as,

$17 + (2)^2 = 17 + 4 = 21$
 $21 + (3)^2 = 21 + 9 = 30$
 $30 + (4)^2 = 30 + 16 = 46$
 $46 + (5)^2 = 46 + 25 = 71$
 $71 + (6)^2 = 71 + 36 = 107$

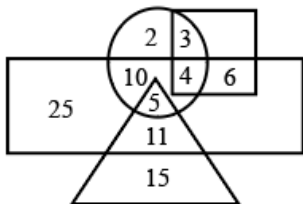
\therefore The correct answer is option C.

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Question 11

The given Venn diagram represents employees in an organisation:

The triangle represents executives, the circle represents females, the rectangle represents MBAs and the square represents technical staff. The numbers given in the diagram represent the number of persons in that particular category.



How many female executives are there in the organisation?

- A 10
- B 5

C 15

D 11

Answer: B

Explanation:

Female executives are there in the organisation = 5
∴ the correct answer is option B.

Question 12

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

Statements:

1. Some animals are elephants.
2. Some elephants are tigers.

Conclusions:

- I. Some animals are tigers.
- II. No tiger is an animal.

A Only conclusion I follows.

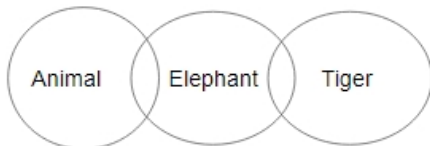
B Either conclusion I or II follows.

C Neither conclusion I nor II follows.

D Only conclusion II follows.

Answer: B

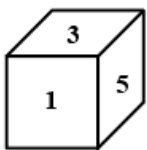
Explanation:



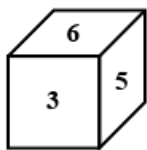
From the Venn diagram,
∴ The correct answer is option B.

Question 13

Two positions of the same dice are shown. Select the number that will be on the face opposite to the one showing 6.



(a)



(b)

A 4

B 5

C 1

D 3

Answer: C

Explanation:

3 → 5 → 6

3 → 5 → 1

So, opposite face of 6 = 1
 ∴ The correct answer is option C.

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Question 14

Select the set of letters that when sequentially placed in the blanks of the given letter series will complete the series.
 k_lmm_lmk_mmk_lkkl_m

- A k, l, m, k, k
- B l, k, m, k, k
- C k, l, k, l, m
- D k, m, m, k, l

Answer: C

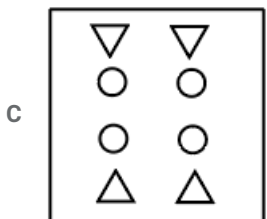
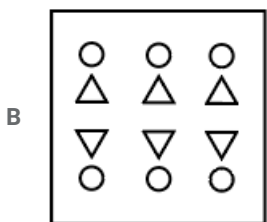
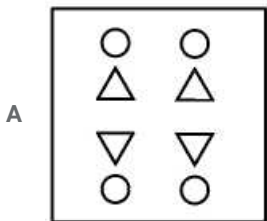
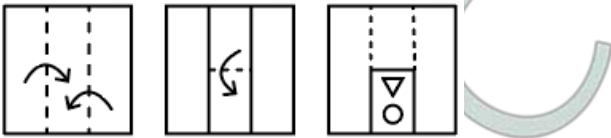
Explanation:

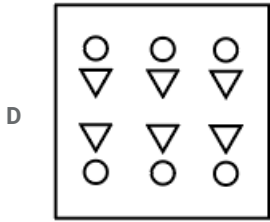
kkllmm llmkk mmkll kklmm

∴ The correct answer is option C.

Question 15

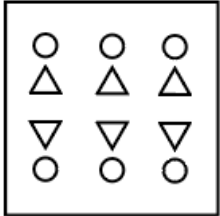
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures.
 How would this paper look when unfolded?





Answer: B

Explanation:



∴ The correct answer is option B.

Question 16

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

Medicine : Disease :: Food : ?

- A Energy
- B Nutrition
- C Thirst
- D Hunger

Answer: D

Explanation:

In disease, we take medicine.

Similarly,

In hunger, we take food.

∴ The correct answer is option D.

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Question 17

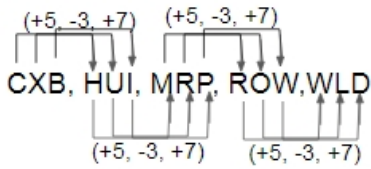
Select the letter-cluster that can replace the question mark (?) in the following series.

CXB, HUI, MRP, ROW, ?

- A VKD
- B VKC
- C WLZ
- D WLD

Answer: D

Explanation:



∴ The correct answer is option D.

Question 18

In a certain code language, 'HARVEST' is coded as '22-21-7-24-20-3-10'. How will 'FARMER' be coded as in that language?

- A 20-7-14-21-3-7
- B 19-7-15-19-3-2
- C 19-7-15-20-3-7
- D 20-21-7-15-20-2

Answer: D

Explanation:

'HARVEST' is coded as '22-21-7-24-20-3-10,

$H + 14 = 22$

$A + 20 = 21$

$R - 11 = 7$

$V + 2 = 24$

$E + 16 = 20$

$S - 16 = 3$

$T - 10 = 10$

Similarly,

For 'FARMER',

$F + 14 = 20$

$A + 20 = 21$

$R - 11 = 7$

$M + 2 = 15$

$E + 16 = 20$

$R - 16 = 2$

'FARMER' is coded as '20-21-7-15-20-2'.

∴ The correct answer is option D.

Question 19

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

$12 : 72 :: 18 : ? :: 22 : 242$

- A 162
- B 164
- C 140
- D 160

Answer: A

Explanation:

In $12 : 72$

$12 \times \overset{12}{2} = 72$

In $22 : 242,$

$22 \times \overset{22}{2} = 242$

Similarly,

$$18 \times 2^{18} = 162$$

∴ The correct answer is option A.

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Question 20

Select the option in which the words share the same relationship as that shared by the given pair of words.

Clock : Time

- A Ammeter : Current
- B Taseometer : Wind
- C Balance : Scale
- D Anemometer : Strains

Answer: A

Explanation:

clock shows the time similarly,

Ammeter shows the current.

∴ The correct answer is option A.

Question 21

Study the given pattern carefully and select the number that can replace the question mark (?) in it.

6	21	14
40	500	?
8	25	7

- A 98
- B 84
- C 91
- D 78

Answer: C

Explanation:

$$6 \times 8 - 8 = 48 - 8 = 40$$

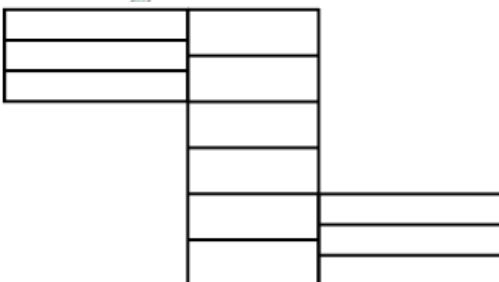
$$21 \times 25 - 25 = 525 - 25 = 500$$

$$14 \times 7 - 7 = 98 - 7 = 91$$

∴ The correct answer is option C.

Question 22

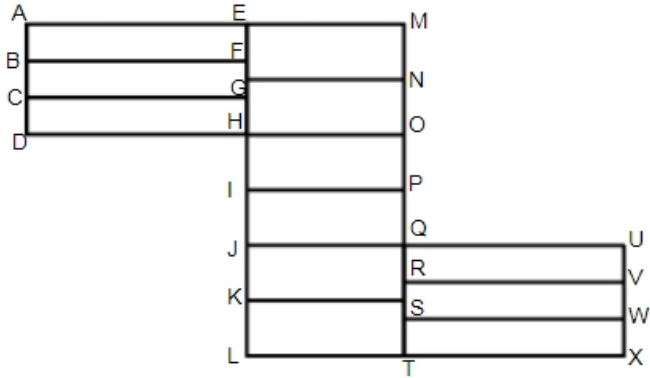
How many rectangles are there in the given figure?



- A 34
- B 32
- C 30
- D 33

Answer: D

Explanation:



Rectangles are AEHD, AEFB, BFGC, CGHD, AEGC, BFHD, EMNG, GNOH, HOIP, IPQJ, JQSK, KSTL, EMOH, GNPI, HOQJ, IPSK, JQTL, EMPI, GNQJ, HOSK, IPTL, EMQJ, FNSK, HOTL, EMSK, GNTL, EMTL, QUVR, RVWS, SWXT, QUWS, RVXT, QUXT.

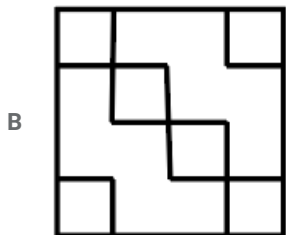
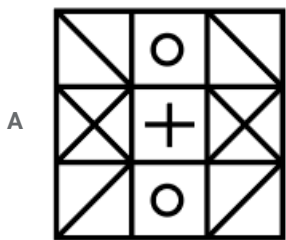
Total rectangles = 33

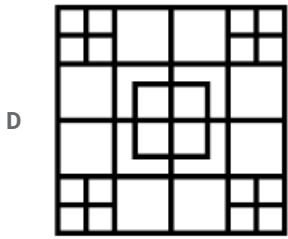
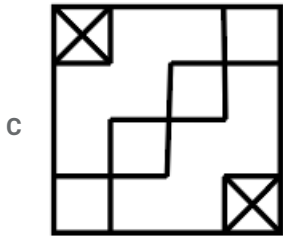
∴ The correct answer is option D.

General Science Notes for SSC CGL

Question 23

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





Answer: A

Explanation:



Red line shows the question figure.

∴ The correct answer is option A.

Question 24

In the following equations, if '+' is interchanged with '-' and '6' is interchanged with '7', then which equation would be correct?

A $67 - 76 + 43 = 100$

B $76 - 75 + 77 = 56$

C $62 - 67 + 76 = 83$

D $78 - 68 + 66 = 59$

Answer: A

Explanation:

From the option A,

$$67 - 76 + 43 = 100$$

On the interchanging,

$$76 + 67 - 43 = 100$$

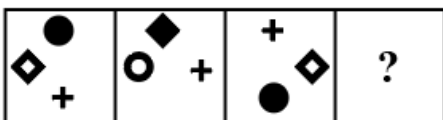
$$143 - 43 = 100$$

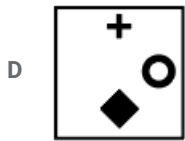
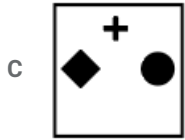
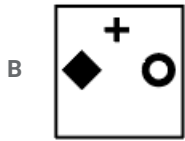
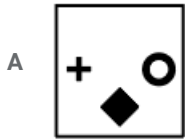
$$100 = 100$$

∴ The correct answer is option A.

Question 25

Select the figure that can replace the question mark (?) in the following series.





Answer: A

Explanation:

Sign of '+' move to anticlockwise line in each step so, next figure,



∴ The correct answer is option A.

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General Awareness

Instructions

For the following questions answer them individually

Question 26

Red worms have a structure named _____ which helps them in grinding their food.

- A Esophagus
- B Intestine
- C Crop
- D Gizzard

Answer: D

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Question 27

Prolific Indian painter Maqbool Fida Husain predominantly used which of these animals to depict a lively and free spirit in his paintings?

- A Elephants
- B Horses
- C Cows
- D Tigers

Answer: B

Question 28

Sultan Qaboos bin Said of _____, the Arab world's longest-serving ruler and with a reputation for quiet diplomacy passed away recently (2020).

- A Abu Dhabi
- B Oman
- C Dubai
- D Kuwait

Answer: B

Question 29

Which of these institutions fixes the Repo Rate and the Reverse Repo Rate in India?

- A Comptroller and Auditor General of India
- B Reserve Bank of India
- C Ministry of Finance
- D State Bank of India

Answer: B

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Question 30

Sir Thomas Roe came as an official ambassador from King James I of England to which Mughal emperor's court?

- A Akbar
- B Aurangzeb
- C Shah Jahan
- D Jahangir

Answer: D

Question 31

What is the more common name for solid carbon dioxide?

- A Epsom

- B Dry Ice
- C Potash
- D Quick Silver

Answer: B

Question 32

As on January 2020, Shri Bhupesh Baghel is the Chief Minister of which of the following states?

- A Odisha
- B Chhattisgarh
- C Jharkhand
- D Haryana

Answer: B

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Question 33

Name the media company that purchased the legendary studio of 21st Century Fox.

- A Time Warner
- B Viacom
- C Sony
- D Disney

Answer: D

Question 34

Who among the following played the leading lady in the film 'Mission Mangal' that tells the dramatic true story of the women behind India's first mission to Mars?

- A Deepika Padukone
- B Kareena Kapoor
- C Vidya Balan
- D Kajol

Answer: C

Question 35

For which of the following sports was Dronavalli Harika, conferred with the prestigious Padma Shri award?

- A Chess
- B Badminton
- C Archery

D Cricket

Answer: A

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Question 36

From India, who inaugurated the Kartarpur Corridor and flagged off the first set of pilgrims to the final resting place of Sikhism founder Guru Nanak Dev?

A Narendra Modi

B Amarinder Singh

C Ram Nath Kovind

D Manmohan Singh

Answer: A

Question 37

Who is the first and currently the only batsman to score double hundreds in four consecutive test series?

A A.B. de Villiers

B Rohit Sharma

C Virat Kohli

D Brian Lara

Answer: C

Question 38

The ruins of the ancient city of Hampi - capital of Vijayanagara - is located in which present day Indian state?

A Haryana

B Bihar

C Karnataka

D Telangana

Answer: C

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Question 39

In which year Sanchi was discovered after being abandoned for nearly 600 Years?

A 1820

B 1818

C 1814

D 1816

Answer: B

Question 40

Kolathunadu, Valluvanad and Thekkumkoor were ancient small-time kingdoms in which state of India?

A Karnataka

B Gujarat

C Bihar

D Kerala

Answer: D

Question 41

What is the uniform GST rate that has been fixed up for lottery prizes by the GST Council?

A 28%

B 18%

C 10%

D 32%

Answer: A

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Question 42

As of February 2020, who is the President of Sri Lanka?

A Gotabaya Rajapaksa

B Chandrika Kumaratunga

C Maithripala Sirisena

D D.M. Jayaratne

Answer: A

Question 43

Which of the following books is NOT written by Salman Rushdie?

A An Area of Darkness

B Shame

C Midnight's Children

D The Satanic Verses

Answer: A

Question 44

Which of these bones is NOT a part of the human ear?

- A Malleus
- B Stapes
- C Femur
- D Incus

Answer: C

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Question 45

The Araku Valley, a tourist resort, is located near which of these cities of South India?

- A Visakhapatnam
- B Madurai
- C Kochi
- D Mangalore

Answer: A

Question 46

Veteran freedom fighter, social reformer and feminist Savitribai Phule hailed from which of the following states of India?

- A Odisha
- B Gujarat
- C Rajasthan
- D Maharashtra

Answer: D

Question 47

Name the author who won the Sahitya Akademi Award 2019 for his book - An Era of Darkness: The British Empire in India.

- A Ramchandra Guha
- B Shashi Tharoor
- C Romila Thapar
- D Vikram Seth

Answer: B

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Question 48

Which of these words refers to the scientific study of domestic dogs?

- A Craniology
- B Chrematistics
- C Carpology
- D Cynology

Answer: D

Question 49

Name the physicist who is credited with the discovery of the Neutron. This 1932 discovery led to his winning the Nobel Prize.

- A Enrico Fermi
- B J.S. Fleming
- C James Chadwick
- D Max Plank

Answer: C

Question 50

The World Food Program (WFP) is the food assistance branch of the United Nations. Where is it headquartered?

- A Rome
- B New York
- C Paris
- D Brussels

Answer: A

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Quantitative Aptitude

Instructions

For the following questions answer them individually

Question 51

If the number $1005x4$ is completely divisible by 8, then the smallest integer in place of x will be:

- A 0
- B 1
- C 4
- D 2

Answer: A

Explanation:

Number = $1005x4$

For the divisibility by 8, last 3 digit of a number is divide by 8 then number will be divisible by 8. So,

last 3 digits = $5x4$

For the smallest integer x should be 0 and 504 is divisible by 8.

So, $x = 0$

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Question 52

The given table shows the number (in thousands) of cars of five different models A, B, C, D and E produced during Years 2012-2017. Study the table and answer the question that follow.

	A	B	C	D	E	Total
2012	18	26	22	23	31	120
2013	22	18	32	40	18	130
2014	32	43	26	35	34	170
2015	18	22	26	14	20	100
2016	36	12	44	38	50	180
2017	12	48	40	22	28	150

If 2013 and 2014 are put together, which type of cars constitute exactly 25% of the total number of cars produced in those 2 years?

- A E
- B B
- C D
- D C

Answer: C

Explanation:

The total number of cars produced in 2013 and 2014 = $130 + 170 = 300$

25% of the total number of cars produced in 2013 and 2014 = $300 \times \frac{25}{100} = 75$

Production of A type of cars = $22 + 32 = 54$

Production of B type of cars = $18 + 43 = 61$

Production of C type of cars = $32 + 26 = 58$

Production of D type of cars = $40 + 35 = 75$

Production of E type of cars = $18 + 34 = 52$

∴ D type of cars constitute exactly 25% of the total number of cars produced in 2013 and 2014.

Question 53

If $x = 4 \cos A + 5 \sin A$ and $y = 4 \sin A - 5 \cos A$, then the value of $x^2 + y^2$ is:

- A 25
- B 41
- C 0
- D 16

Answer: B

Explanation:

$$x = 4 \cos A + 5 \sin A$$

$$y = 4 \sin A - 5 \cos A$$

$$x^2 + y^2$$

$$= (4 \cos A + 5 \sin A)^2 + (4 \sin A - 5 \cos A)^2$$

$$((a + b)^2 = a^2 + b^2 + 2ab)$$

$$= (16 \cos^2 A + 25 \sin^2 A + 40 \cos A \sin A) + (16 \sin^2 A + 25 \cos^2 A - 40 \cos A \sin A)^2$$

$$(\sin^2 A + \cos^2 A = 1)$$

$$= 16 + 25 = 41$$

Question 54

The radius of a circular garden is 42 m. The distance (in m) covered by running 8 rounds around it, is: (Take $\pi = \frac{22}{7}$)

A 2112

B 1124

C 3248

D 4262

Answer: A

Explanation:

Radius(r) = 42 m

Distance(d) = 8 rounds

$$1 \text{ round} = 2 \pi r = 2 \times \frac{22}{7} \times 42 = 264 \text{ m}$$

$$\text{Distance}(d) = 8 \times 264 = 2112 \text{ m}$$

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Question 55

The given table shows the number (in thousands) of cars of five different models A, B, C, D and E produced during Years 2012-2017. Study the table and answer the question that follow.

	A	B	C	D	E	Total
2012	18	26	22	23	31	120
2013	22	18	32	40	18	130
2014	32	43	26	35	34	170
2015	18	22	26	14	20	100
2016	36	12	44	38	50	180
2017	12	48	40	22	28	150

The percentage decrease in the production of which type of car in 2017, with reference to 2016, was the maximum?

A D

B E

C A

D C

Answer: C

Explanation:

The percentage decrease in the production of A type of car in 2017, with reference to 2016 = $\frac{36 - 12}{36} \times 100 = \frac{24}{36} \times 100 = 66.66\%$

B type of car have increments in the production in 2017, with reference to 2016.

The percentage decrease in the production of C type of car in 2017, with reference to 2016 = $\frac{44 - 40}{44} \times 100 = \frac{4}{44} \times 100 = 9.09\%$

The percentage decrease in the production of D type of car in 2017, with reference to 2016 = $\frac{38 - 22}{38} \times 100 = \frac{16}{38} \times 100 = 42.1\%$

The percentage decrease in the production of E type of car in 2017, with reference to 2016 = $\frac{50 - 28}{50} \times 100 = \frac{22}{50} \times 100 = 44\%$

A type of car have maximum decrements in the production in 2017, with reference to 2016.

Question 56

If x, y, z are three integers such that $x + y = 8, y + z = 13$ and $z + x = 17$, then the value of $\frac{x^2}{yz}$ is:

A $\frac{7}{5}$

B $\frac{18}{11}$

C 1

D 0

Answer: B

Explanation:

$$x + y = 8 \text{ ---(1)}$$

$$y + z = 13 \text{ ---(2)}$$

$$z + x = 17 \text{ ---(3)}$$

$$\text{Eq (1) + (2) + (3),}$$

$$2(x + y + z) = 8 + 13 + 17$$

$$x + y + z = 38/2 = 19 \text{ ---(4)}$$

From eq (3) and (4),

$$x + 13 = 19$$

$$\mathbf{x = 6}$$

From eq(3),

$$z + x = 17$$

$$z + 6 = 17$$

$$\mathbf{z = 11}$$

From eq(2),

$$y + z = 13$$

$$y + 11 = 13$$

$$\mathbf{y = 2}$$

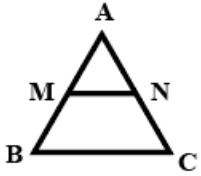
$$\frac{x^2}{yz}$$

$$= \frac{6^2}{2 \times 11}$$

$$= 36/22 = 18/11$$

Question 57

In $\triangle ABC$, $MN \parallel BC$, the area of quadrilateral $MBCN = 130$ sqcm. If $AN : NC = 4 : 5$, then the area of $\triangle MAN$ is:



- A 40 cm^2
- B 45 cm^2
- C 32 cm^2
- D 65 cm^2

Answer: C

Explanation:

$$AN : NC = 4 : 5$$

$$AC = AN + NC = 4 + 5 = 9$$

$$MN \parallel BC$$

So,

$$\triangle ABC \sim \triangle MAN$$

$$\frac{\text{Area of } \triangle MAN}{\text{Area of } \triangle ABC} = \left(\frac{4}{9}\right)^2$$

$$\frac{\text{Area of } \triangle MAN}{\text{Area of } \triangle ABC} = \frac{16}{81}$$

Let the area of $\triangle MAN$ be $16x$ and $\triangle ABC$ be $81x$.

$$\text{Area of quadrilateral } MBCN = 130 \text{ sqcm}$$

$$\text{Area of } \triangle ABC - \text{area of } \triangle MAN = 130 \text{ sqcm}$$

$$81x - 16x = 130$$

$$x = 130/65 = 2$$

$$\text{Area of } \triangle MAN = 16x = 16 \times 2 = 32 \text{ sqcm.}$$

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Question 58

A, B and C can individually complete a piece of work in 24 days, 15 days and 12 days, respectively. B and C started the work and worked for 3 days and left. The number of days required by A alone to complete the remaining work, is:

- A 11
- B $15\frac{1}{2}$
- C 18
- D $13\frac{1}{5}$

Answer: D

Explanation:

Let the total work be 120 units.

(\because LCM of 24, 15 and 12 is 120.)

Efficiency of A = work/time = $120/24 = 5$ units/day

Efficiency of B = $120/15 = 8$ units/day

Efficiency of C = $120/12 = 10$ units/day

Work done by B and C in 3 days = $(8 + 10) \times 3 = 18 \times 3 = 54$ units

Remaining work = $120 - 54 = 66$ units

Time taken by A to complete the remaining work = $66/5 = 13 \frac{1}{5}$

Question 59

If $x - y = 4$ and $xy = 45$, then the value of $x^3 - y^3$ is:

A 822

B 604

C 151

D 82

Answer: B

Explanation:

$$x - y = 4$$

$$xy = 45$$

$$x^3 - y^3$$

$$= (x - y)^3 + 3xy(x - y)$$

$$= (4)^3 + 3 \times 45(4)$$

$$= 64 + 540 = 604$$

Question 60

A person sells an article at 10% below its cost price. Had he sold it for ₹332 more, he would have made a profit of 20%. What is the original selling price (in ₹) of the article?

A 996

B 1328

C 1028

D 896

Answer: A

Explanation:

Let the cost price of article be x .

$$\text{selling price} = 90\%x = 0.9x$$

$$\text{Now Selling} = 0.9x + 332$$

$$\text{Profit} = 20$$

$$\text{Cost price} = \frac{0.9x + 332}{120} \times 100$$

$$x = \frac{0.9x + 332}{120} \times 100$$

$$1.2x = 0.9x + 332$$

$$0.3x = 332$$

$$x = 332/3$$

Selling price = $0.9x = 0.9 \times 332/.3 = \text{Rs.}996$

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Question 61

If the base radius of 2 cylinders are in the ratio 3 : 4 and their heights are in the ratio 4 : 9, then the ratio of their volumes is:

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

Answer: B

Explanation:

$$r_1 : r_2 = 3 : 4$$

$$h_1 : h_2 = 4 : 9$$

$$\text{Volume of cylinder} = \pi r^2 h$$

$$\text{Ratio of volume} = \pi r_1^2 h_1 : \pi r_2^2 h_2$$

$$= 3^2 \times 4 : 4^2 \times 9 = 1 : 4$$

Question 62

A train crosses a pole in 12 sec, and a bridge of length 170 m in 36 sec. Then the speed of the train is:

- A 10.8 km/h
- B 30.75 km/h
- C 25.5 km/h
- D 32.45 km/h

Answer: C

Explanation:

Let the speed of train be s m/sec and length be l .

A train crosses a pole in 12 sec.

$$\text{Distance} = \text{speed} \times \text{time}$$

$$l = 12s \text{ ---(1)}$$

A train crosses a bridge of length 170 m in 36 sec.

$$\text{Total length} = l + 170$$

$$l + 170 = 36s \text{ ---(2)}$$

Put the value l in eq (2),

$$12s + 170 = 36s$$

$$s = 170/24 = 7.08 \text{ m/sec} = 7.08 \times \frac{18}{5} = 25.5 \text{ m/sec}$$

\therefore Speed of the train is 25.5 m/sec.

Question 63

If '+' means '-', '-' means '+', '×' means '÷', and '÷' means '×', then the value of $\frac{42-12 \times 3+8 \div 2+15}{8 \times 2-4+9 \div 3}$ is:

A $-\frac{15}{19}$

B $\frac{5}{3}$

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

D $\frac{15}{19}$

Answer: A

Explanation:

$$\frac{42-12 \times 3+8 \div 2+15}{8 \times 2-4+9 \div 3}$$

On changing the sign,

$$\frac{42+12 \div 3-8 \times 2-15}{8 \div 2+4-9 \times 3}$$

$$= \frac{42+4-8 \times 2-15}{4+4-9 \times 3}$$

$$= \frac{42+4-16-15}{4+4-27}$$

$$= \frac{15}{19}$$

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Question 64

A shopkeeper marks the price of the article in such a way that after allowing 28% discount, he wants a gain of 12%. If the marked price is ₹224, then the cost price of the article is:

A ₹168

B ₹144

C ₹120

D ₹196

Answer: B

Explanation:

Marked price = 224

Discount = 28%

Selling price = 100 - 28% = 72% of the marked price

$$= 224 \times \frac{72}{100} = 161.28$$

Profit = 20%

$$\text{Cost price} = \frac{161.28}{112} \times 100 = \text{Rs.144}$$

Question 65

₹4,300 becomes ₹4,644 in 2 years at simple interest. Find the principle amount that will become ₹10,104 in 5 years at the same rate of interest.

A ₹7,200

B ₹8,420

C ₹9,260

D ₹5,710

Answer: B

Explanation:

$$\text{Interest} = 4644 - 4300 = 344$$

$$p = 4300$$

$$T = 2 \text{ years}$$

$$\text{Simple interest} = \frac{prt}{100}$$

$$344 = \frac{4300 \times r \times 2}{100}$$

$$r = 4\%$$

Let the principle amount be x.

$$\text{So, interest} = 10104 - x$$

$$T = 5 \text{ years}$$

$$r = 4\%$$

$$\text{Simple interest} = \frac{prt}{100}$$

$$10104 - x = \frac{x \times 4 \times 5}{100}$$

$$10104 \times 5 - 5x = x$$

$$6x = 50520$$

$$x = 8420$$

∴ The principle amount is Rs. 8420.

Question 66

Out of 6 numbers, the sum of the first 5 numbers is 7 times the 6th number. If their average is 136, then the 6th number is:

A 116

B 102

C 96

D 84

Answer: B

Explanation:

$$\text{Average of 6 numbers} = 136$$

(average = sum of terms/number of terms)

$$\text{Sum of 6 numbers} = 136 \times 6 = 816 \text{ ---(1)}$$

Let the 6th number be x.

$$\text{Sum of 5 numbers} = 7x$$

From eq(1),

$$7x + x = 816$$

$$x = 816/8 = 102$$

∴ The 6th number is 102.

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Question 67

If $A + B = 45^\circ$, then the value of $2(1 + \tan A)(1 + \tan B)$ is:

- A 4
- B 0
- C 2
- D 1

Answer: A

Explanation:

$$A + B = 45^\circ$$

On taking tan both sides,

$$\tan(A + B) = \tan(45^\circ)$$

$$\frac{\tan A + \tan B}{1 - \tan A \tan B} = 1$$

$$\tan A + \tan B = 1 - \tan A \tan B$$

$$\tan A + \tan B + \tan A \tan B = 1 \quad \text{---(1)}$$

Now,

$$2(1 + \tan A)(1 + \tan B)$$

$$= 2(1 + \tan A + \tan B + \tan A \tan B)$$

from the eq(1),

$$= 2(1 + 1)$$

$$= 4$$

Question 68

If the length of a rectangle is increased by 40%, and the breadth is decreased by 20%, then the area of the rectangle increases by x%. Then the value of x is:

- A 16
- B 20
- C 8
- D 12

Answer: D

Explanation:

$$\text{Area of the rectangle} = \text{length} \times \text{breadth}$$

now,

$$\text{Length} = 140\% \text{ of length} = 1.4 \text{length}$$

$$\text{breadth} = 80\% \text{ of breadth} = 0.8 \text{breadth}$$

$$\text{Area of rectangle} = 1.4 \text{length} \times 0.8 \text{breadth} = 1.12 \text{length} \times \text{breadth}$$

$$\text{Increment in area of rectangle} = 1.12 \text{length} \times \text{breadth} - \text{length} \times \text{breadth} = 0.12 \text{length} \times \text{breadth}$$

$$\text{Percentage increment in area of rectangle} = \frac{0.12 \text{length} \times \text{breadth}}{\text{length} \times \text{breadth}} \times 100$$

$$x\% = 12\%$$

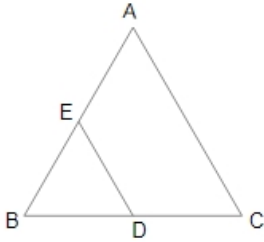
Question 69

The area of $\triangle ABC$ is 44 cm^2 . If D is the midpoint of BC and E is the midpoint of AB, then the area (in cm^2) of $\triangle BDE$ is:

- A 5.5
- B 44
- C 11
- D 22

Answer: C

Explanation:



D is the midpoint of BC and E is the midpoint of AB.

Let the BE be $x \text{ cm}$.

$$AB = 2BE = 2x \text{ cm}$$

$$\frac{AB}{BE} = \frac{2x}{x} = 2$$

$\angle B$ is common in both triangle.

$$\triangle ABC \sim \triangle BDE$$

So,

$$\frac{\text{area of } \triangle ABC}{\text{area of } \triangle BDE} = \left(\frac{AB}{BE}\right)^2$$

$$\frac{44}{\text{area of } \triangle BDE} = \left(\frac{2}{1}\right)^2$$

$$\frac{44}{\text{area of } \triangle BDE} = \left(\frac{4}{1}\right)$$

$$\text{Area of } \triangle BDE = 11 \text{ cm}^2.$$

General Science Notes for SSC CGL

Question 70

The given table shows the number (in thousands) of cars of five different models A, B, C, D and E produced during Years 2012-2017. Study the table and answer the question that follow.

	A	B	C	D	E	Total
2012	18	26	22	23	31	120
2013	22	18	32	40	18	130
2014	32	43	26	35	34	170
2015	18	22	26	14	20	100
2016	36	12	44	38	50	180
2017	12	48	40	22	28	150

In the year 2015, which type of car constitutes exactly 20% of the total number of cars produced that year?

- A E

- B A
- C B
- D D

Answer: A

Explanation:

Total number of cars produced in year 2015 = 100

$$20\% \text{ of the total number of cars produced in year 2015} = 100 \times \frac{20}{100} = 20$$

In the year 2015, E type of car constitutes exactly 20% of the total number of cars produced that year.

Question 71

If A lies in the first quadrant and $6 \tan A = 5$, then the value of $\frac{8 \sin A - 4 \cos A}{\cos A + 2 \sin A}$ is:

- A 16
- B 1
- C 4
- D -2

Answer: B

Explanation:

$$6 \tan A = 5$$

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

$$\frac{8 \sin A - 4 \cos A}{\cos A + 2 \sin A}$$

$$= \frac{\cos A (8 \tan A - 4)}{\cos A (1 + 2 \tan A)}$$

$$= \frac{8 \tan A - 4}{1 + 2 \tan A}$$

Put the value of $\tan \theta$,

$$= \frac{8 \times \frac{5}{6} - 4}{1 + 2 \times \frac{5}{6}}$$

$$= \frac{\frac{20}{3} - 4}{1 + \frac{5}{3}}$$

$$= \frac{\frac{8}{3}}{\frac{8}{3}} = 1$$

Question 72

The ratio of the number of boys to the number of girls in a school of 640 students, is 5 : 3. If 30 more girls are admitted in the school, then how many more boys should be admitted so that the ratio of boys to that of the girls, becomes 14 : 9.

- A 30
- B 25
- C 15
- D 20

Answer: D

Explanation:

Total student = 640

Ratio boys to girls = 5 : 3

Number of boys = $640 \times \frac{5}{8} = 400$

Number of girls = $640 - 400 = 240$

Now,

Number of girls = $240 + 30 = 270$

Let the new admitted boys be x .

So,

number of boys = $400 + x$

ratio of boys to that of the girls = 14 : 9

$$\frac{400+x}{270} = \frac{14}{9}$$

$$(400 + x) \times 9 = (270) \times 14$$

$$3600 + 9x = 3780$$

$$x = 180/9 = 20$$

\therefore 20 boys should be admitted.

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Question 73

A, B and C are three points on a circle such that the angles subtended by the chord AB and AC at the centre O are 110° and 130° , respectively. Then the value of $\angle BAC$ is:

A 70°

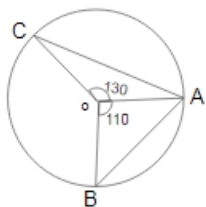
B 75°

C 60°

D 65°

Answer: C

Explanation:



In $\triangle OBA$,

$$\angle O = 110^\circ$$

$$\angle OBA = \angle OAB \text{ (OB = OA = radius)}$$

$$\angle O + \angle OBA + \angle OAB = 180^\circ$$

$$110 + \angle OAB + \angle OAB = 180^\circ$$

$$2\angle OAB = 70^\circ$$

$$\angle OAB = 35^\circ$$

In $\triangle OAC$,

$$\angle O = 130^\circ$$

$$\angle OAC = \angle OCA \text{ (OA = OC = radius)}$$

$$\angle O + \angle OAC + \angle OCA = 180^\circ$$

$$130 + \angle OAC + \angle OAC = 180^\circ$$

$$2\angle OAC = 50^\circ$$

$$\angle OAC = 25^\circ$$

Now,

$$\angle BAC = \angle OAB + \angle OAC = 35^\circ + 25^\circ = 60^\circ$$

Question 74

The given table shows the number (in thousands) of cars of five different models A, B, C, D and E produced during Years 2012-2017. Study the table and answer the question that follow.

	A	B	C	D	E	Total
2012	18	26	22	23	31	120
2013	22	18	32	40	18	130
2014	32	43	26	35	34	170
2015	18	22	26	14	20	100
2016	36	12	44	38	50	180
2017	12	48	40	22	28	150

The percentage increase in the total cars in 2016 over 2012, is:

- A 50%
- B 45%
- C 33.33%
- D 62.33%

Answer: A

Explanation:

Total cars in 2016 = 180

Total cars in 2012 = 120

Required percentage = $\frac{180 - 120}{120} \times 100 = \frac{60}{120} \times 100 = 50\%$

Question 75

If $x^{2a} = y^{2b} = z^{2c} \neq 0$ and $x^2 = yz$, then the value of $\frac{ab+bc+ca}{bc}$ is:

- A 3
- B $3ac$
- C $3bc$
- D $3ab$

Answer: A

Explanation:

$$x^{2a} = y^{2b} = z^{2c} = k$$

$$x^{2a} = k$$

$$x = (k)^{\frac{1}{2a}}$$

Likewise,

$$y = (k)^{\frac{1}{2b}}$$

$$z = (k)^{\frac{1}{2c}}$$

Now,

$$x^2 = yz$$

$$((k)^{\frac{1}{2a}})^2 = (k)^{\frac{1}{2b}}(k)^{\frac{1}{2c}}$$

$$(k)^{\frac{1}{a}} = (k)^{\frac{1}{2b} + \frac{1}{2c}}$$

$$\frac{1}{a} = \frac{1}{2b} + \frac{1}{2c}$$

By adding $\frac{1}{2a}$ both sides,

$$\frac{1}{a} + \frac{1}{2a} = \frac{1}{2a} + \frac{1}{2b} + \frac{1}{2c}$$

$$\frac{3}{2a} = \frac{ab+bc+ac}{2abc}$$

$$\frac{ab+bc+ac}{bc} = 3$$

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English Comprehension

Instructions

For the following questions answer them individually

Question 76

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

The Director will agree with the proposal if we do not exceed the budget.

- A agree on a proposal
- B agree to the proposal
- C agreed by the proposal
- D No Improvement

Answer: B

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Question 77

Select the correct synonym of the given word.

Obligatory

- A Mandatory
- B Reckless
- C Useless
- D Aggressive

Answer: A

Question 78

Select the passive form of the given sentence.
The manager keeps the work pending.

- A The work are being kept pending by the manager
- B The work was kept pending by the manager
- C The work has been kept pending by the manager
- D The work is kept pending by the manager.

Answer: D

Question 79

In the sentence identify the segment which contains the grammatical error.
One of the boys from our school have been selected for National Badminton Championship.

- A have been selected
- B from our school
- C One of the boys
- D for National Badminton Championship

Answer: A

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Question 80

Fill in the blank with the most appropriate word.
We must _____ help to the homeless and physically disabled people.

- A exert
- B donate
- C contribute
- D render

Answer: D

Question 81

Given below are four jumbled sentences. Select the option that gives their correct order.

- A. However, the rate of population increase is another important factor to consider.
- B. This change can be expressed in two ways.
- C. Growth of population refers to the change in the number of inhabitants of a country.
- D. First, in terms of absolute numbers and second, in terms of percentage change.

- A CADB
- B CBDA
- C BDCA

D BADC

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. Communication plays a (1)_____ role in the overall development of man. It can be learnt by our (2)_____ efforts. Today, success in our professional life depends on our (3)_____ to read, write and speak well which results in effective communication. Barriers (4)_____ communication hinder the communication process. It is very important to (5)_____ these barriers so that the transmission of the message can be smooth.

Question 82

Select the most appropriate option for blank No. 1

- A lifeless
- B total
- C vital
- D better

Answer: C

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Question 83

Select the most appropriate option for blank No. 2

- A conscious
- B contradictory
- C unclear
- D important

Answer: A

Question 84

Select the most appropriate option for blank No. 3

- A ability
- B facility
- C agility
- D variety

Answer: A

Question 85

Select the most appropriate option for blank No. 4

- A to
- B by
- C against
- D from

Answer: A

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Question 86

Select the most appropriate option for blank No. 5

- A strengthen
- B overcome
- C succeed
- D create

Answer: B

Instructions

For the following questions answer them individually

Question 87

Select the word, which means the same as the groups of words given.

A song sung at a burial

- A Dirge
- B Sonnet
- C Hymn
- D Ballad

Answer: A

Question 88

Given below are four jumbled sentences. Select the option that gives their correct order

- A. However, they ignore the truth that progress and success are proportional to the labor they put in.
- B. The general human tendency is to find faults in the policies framed by the government.
- C. They blame the government for their slow progress, expecting miracles and magical transformation in their life.
- D. So people openly criticize and condemn the policy makers.

- A BDCA
- B DBAC
- C CDAB

D ABCD

Answer: A

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Question 89

Select the correct synonym of the given word.

Scintillating

A Glittering

B Stinging

C Flattering

D Boring

Answer: A

Question 90

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

I can swim very fast when I was only five.

A I can swim

B only five

C very fast

D when i was

Answer: A

Question 91

Select the correctly spelt word.

A exhoust

B exhibit

C exteract

D exhail

Answer: B

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Question 92

Select the appropriate meaning of the given idiom.

A hard nut to crack

A Not restrained

B Easily encouraged

C Easily disappointed

D A difficult problem

Answer: D

Question 93

Select the correct antonym of the given word.

Quiescent

A Dejected

B Active

C Peaceful

D Indifferent

Answer: B

Question 94

Select the indirect narration of the given sentence.

He said to the hotel receptionist, "Can you tell me the tariff of rooms?"

A He enquired the hotel receptionist if he can tell him the tariff of rooms

B He asked the hotel receptionist if he could tell him the tariff of rooms

C He asked the hotel receptionist that if he can tell him the tariff of rooms

D He asked the hotel receptionist to tell him the tariff of rooms

Answer: B

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Question 95

Select the correctly spelt word.

A Bouquette

B Sarcasm

C Humiliation

D Retalaite

Answer: B

Question 96

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

The captain as well the players were responsible for winning the trophy

A The captain as well as the players was

B No Improvement

C As The captain with the players were

D The captain also the players were

Answer: A

Question 97

Select the appropriate meaning of the given idiom.

To take French leave

A Leave without any intimation

B Welcome the host

C Acknowledge the host

D Leave with written permission

Answer: A

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Question 98

Fill in the blank with the most appropriate word.

Handle this glass table with care because it is _____

A fragile

B frugal

C volatile

D ductile

Answer: A

Question 99

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

Something that cannot be heard

A inaudible

B infallible

C irrevocable

D audible

Answer: A

Question 100

Select the correct antonym of the given word.

Exodus

A Exit

B Refund

C Arrival

D Departure

Answer: C

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