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SSC CPO

Reasoning

Instructions

For the following questions answer them individually

Question 1

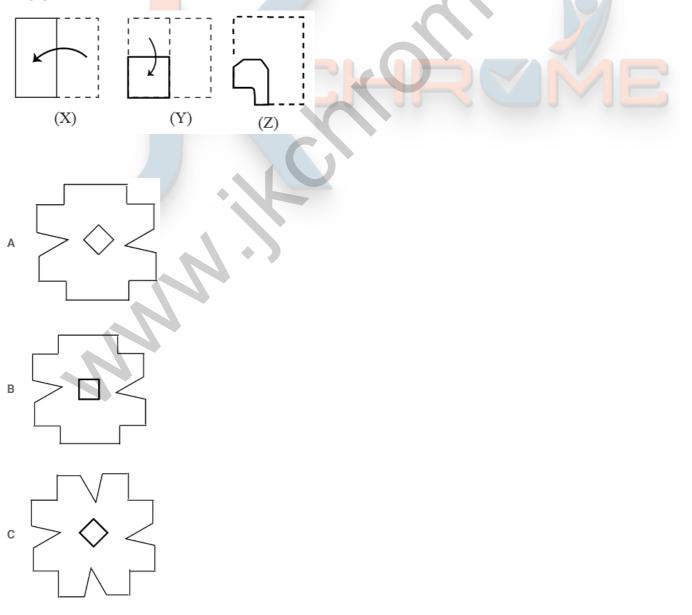
Which two numbers should be interchanged to make the given equation correct?

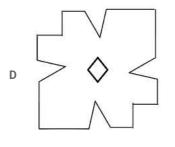
 $4 \times 2 - 8 + 9 \div 3 = 9 \div 3 + 4 \times 2 - 8$

- **A** 3 and 4
- **B** 3 and 2
- **C** 8 and 3
- **D** 8 and 4
 - Answer: D

Question 2

The sequence of folding a piece of square paper and the which the folded paper been cut is shown in figures X, Y and Z. How would this paper look when unfolded?





Answer: A

Question 3

Which letter-cluster will replace the question mark (?) in the following series? CGE, HJI, LPN, SUT, ?

- A XBZ
- B YAZ
- C YCA
- D XZY

Answer: C

Question 4

Three of the following four number-pairs are alike in a certain way and one is different. Find the odd one out.

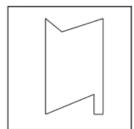
- **A** 865:722
- **B** 378:255
- **C** 756:633
- **D** 967:844
 - Answer: A

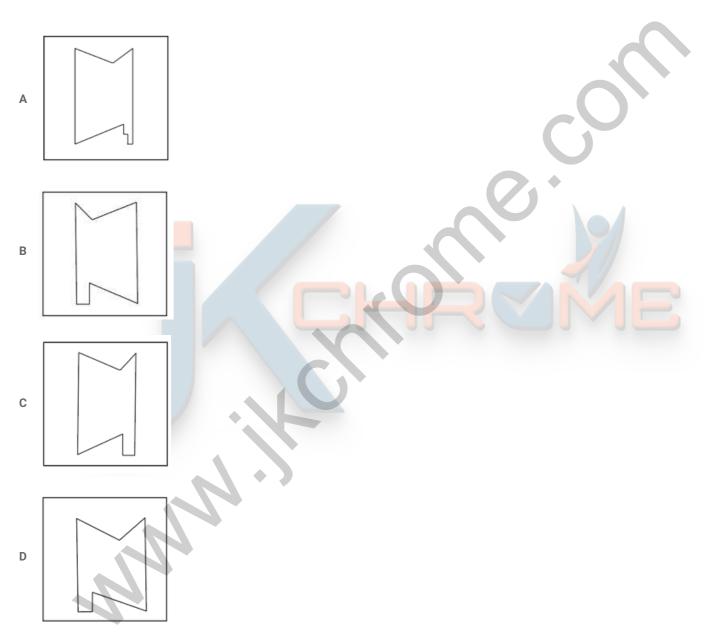
Question 5

Three of the following four wo ds are alike in a certain way and one is different. Find the odd one out.

- A Potato
- B Carrot
- C Cabbage
- D Turnip
 - Answer: C

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







Question 7

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

- A CHEL
- B ZVXT
- C VSUP

D MROV

Answer: B

Question 8

Which letter will replace the question mark (?) in the following series? Y, X, V, S, ?, J

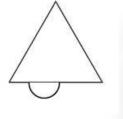
A 0

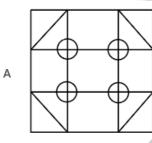
- **B** N
- **C** Q
- DP

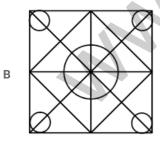
Answer: A

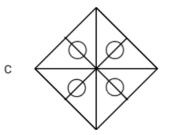
Question 9

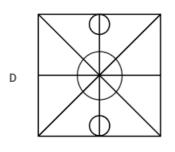
Select the option in which the given figure is embedded.











Answer: B

Question 10

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 statement ts. Statements:

Some men are players.

All players are athletes.

Conclusions:

I. No athlete is a man.

II. All men are athletes.

III. Some athletes are men.

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

Answer: D

Question 11

If DIG = 41 and GOAD = 55, then FACT =

A 45

B 61

C 53

D 63

Answer: B

Question 12

Three of the following four number-pairs are alike in a certain way and one is different. Find the odd one out.

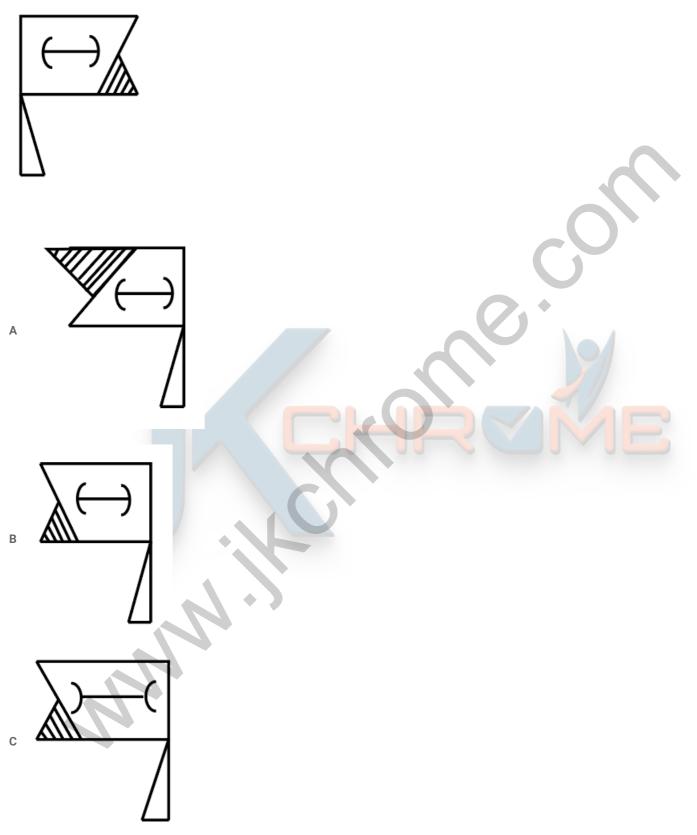
- **A** 8:80
- **B** 6:48
- **C** 4:26
- **D** 10:120

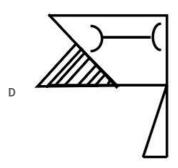
6 www.jkchrome.com

Answer: C

Question 13

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

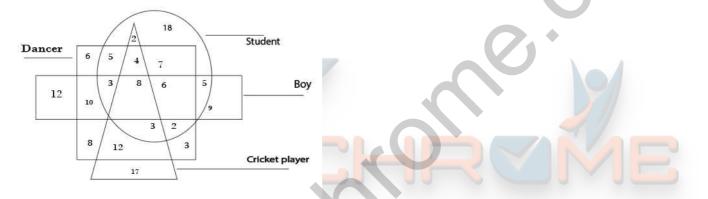




Answer: B

Question 14

In the following diagram, the triangle represents 'cricket players', the circle represents 'students', the rec angle represents 'boys' and the square represents 'dancers'. The numbers in different segments show the number of persons



How many students are dancers and cricket players but not boys?

- **A** 7
- **B** 12
- **C** 4
- **D** 16

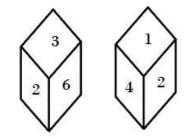
Answer: A

Question 15

Select the se of numbers that is similar to the following set. {9, 15, 24}

- **A** {21, 33, 55}
- **B** {12, 20, 30}
- **C** {6, 10, 16}
- **D** {15, 25, 35}
 - Answer: C

Two positions of the same dice are given. Which number will be at the top if '3' is at the bottom?



- **A** 4
- **B** 6
- **C** 5
- **D** 1

```
Answer: A
```

Question 17

Which number will replace the question mark (?) in the following series? 3, 7, 13, 27, ?, 107, 213

- **A** 63
- **B** 53
- **C** 58
- **D** 49

Answer: B

Question 18

Which number will replace the ques on mark ('7) in the following series? 1, 3, 4, 7, ?, 18, 29

```
A 10
```

- **B** 13
- -
- **C** 15
- **D** 11

Answer: D

Question 19

In a code language, CONCERT is written as CNEROCT. How will SMARTER be written in that language?

A RATESMR

- B RATEMSR
- **C** RATMESR
- D RETRAMS
 - Answer: B

Select the option that is related to the third number in the same way as the second number is related to the first number. 12:145:8::....

A 60
B 85
C 65
D 73
Answer: C
Question 21
Three of the following four number-pairs are alike in a certain way and one is different. Find the odd one out.
A 56:11
B 78:13
C 12:3
D 34:7
Answer: B
Question 22
Select the option that is related t the third number in the same way as the second number is related to the first number.
4:8::25:
A 100
B 75
C 625

D 125

```
Answer: D
```

Question 23

Select the word-pair in which the two words are related in the same way as are the two words in the given word-pair. Wish : Desire

- A Run : Ride
- B Drive : Speed
- **C** Morning : Evening
- D Cool : Cold
 - Answer: D

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

- A DFIM
- B FHKM
- **C** MORV
- D QSVZ

Answer: B

Question 25

Three of the following four number-pairs are alike in a certain way and one is different. Find the odd one out.

A 49:94	
B 56:67	
C 15:51	
D 38:83	
Answer: B	

Question 26

Starting from Anand's hous the school bus takes a right tum and covers 3 km. Then, it takes a left turn and covers 2 km. Finally, it takes a right turn again nd c vers 4 km to reach the school. On reaching the school, the bus faces southeast. In which direction was the bus facing when it lef An d's house?

- A South-west
- B South-east
- C North-east
- D North

Answer: C

Question 27

Select the set of numbers that is similar to the following set. {9, 54, 6}

- **A** {3, 15, 6}
- **B** {8, 64, 9}
- **C** {7, 74, 12}
- **D** {5, 35, 7}
 - Answer: D

Which of the following interchanges of signs and numbers would make the given equation correct? $12\times18\div3-6+4=5$

- A \div and \times , 6 and 3
- **B** \div and \times , 4 and 3
- \mathbf{C} \div and +, 3 and 4
- ${\bf D}_{-} \times {\rm and}$ +, 3 and 6

Answer: A

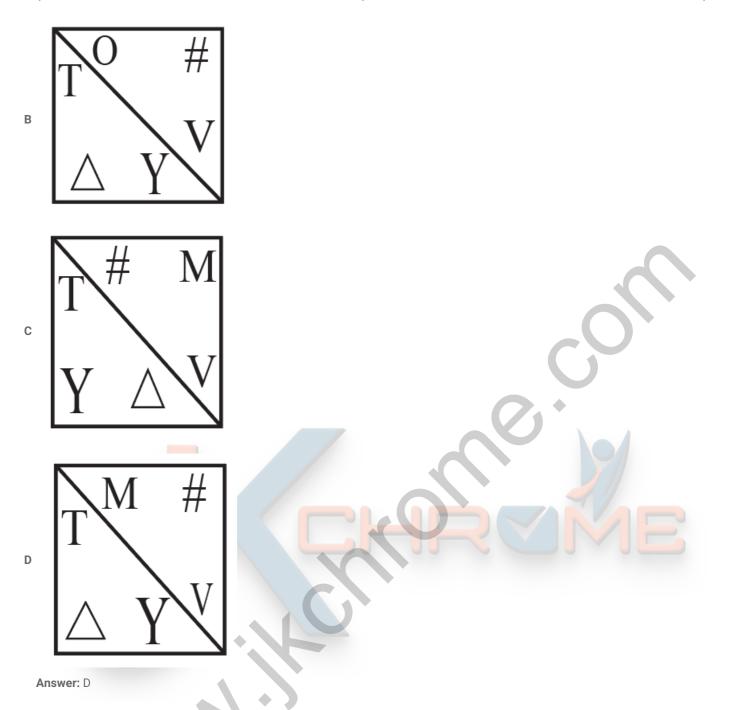
Question 29

Α

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

+Ö Μ +# 0 M # @ © @ #

M



Which number will replace the quest on mark (?) in the following series? 1, 2, 6, 12, ?, 72, 216

A 24

- **B** 32
- **C** 36
- **D** 48

Answer: C

Select the correct alternative to indicate the arrangement of the following words in a logical and meaningful order.

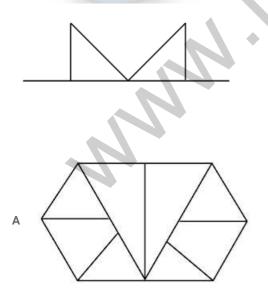
- 1. Treatment
- 2. Diagnosis
- 3. Doctor
- 4. Discharge
- 5. Bill
- **A** 3, 2, 1, 5, 4
- **B** 4, 5, 3, 2, 1
- **C** 3, 2, 5, 1, 4
- **D** 2, 3, 1, 4, 5
 - Answer: A

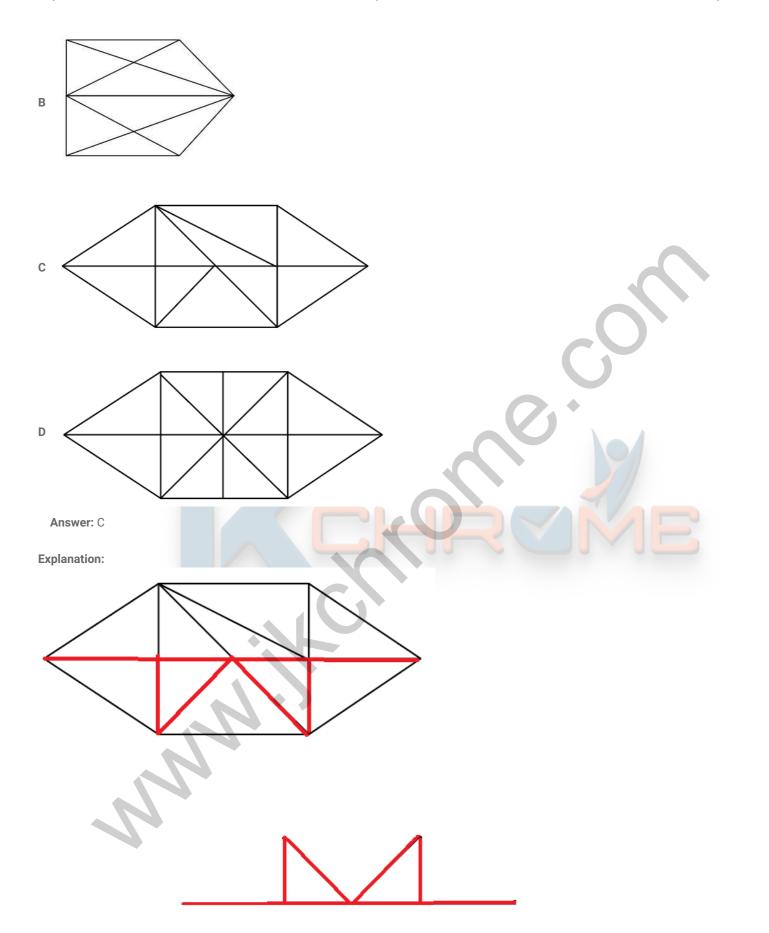
Question 32

If MADE is coded as 12236 and BAD is coded as 123, then how will DECK be coded as?

- **A** 36212
- **B** 34312
- **C** 36201
- **D** 44412
- Answer: A
- **Question 33**

Select the option in which the given figure is em edded. (Rotation is not allowed)





From the highlighted part it can clearly be seen that the shape is embedded in the figure which is given in option C.

Select the word-pair in which the two words are related in the same way as are the two words in the given word-pair. Weigh : Balance

- A Volume : Liquid
- B Pour : Water
- C Swim : River
- D Detect : Radar

Answer: D

Explanation:

Radar is used for detecting the position of moving objects like balance is used for weighing the object. In both the cases the second one is the device and first one is being measured.

Question 35

In a code language, MONKEY is written as LPMLDZ. How will STROKE be written as in that language?

- A TSSNLD
- **B** RUQFJP
- C RUQNLD
- D RUQPJF
- Answer: D

Explanation:

Decoding the pattern of MONKEY ->LPMLDZ

M is changed to L which is (n-1)th alphabet i the alphabetical order.

- O is changed to P which is (n+1) of th alphabetical order.
- N is changed to M which is (n-1)t al habet of alphabetical order.

K is changed to K which is (+1)t al habet.

E is changed to D which s(1 th alphabet).

and Y is changed t Z w c is (n+1)th alphabet.

```
so alternate (n- - (n+1) pattern is being followed starting from (n-1).
```

applying the same logic in STROKE

- S >S-1 R
- T > T+1 U
- R >R-1 Q
- 0 >0+1 P
- K >K-1 J
- E > E+1 F

Hence RUQPJF is the right answer which is option D

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 teachers are researchers. NO researcher is unemployed. Conclusions:

I. Some unemployed are teachers. II. No teacher is unemployed.

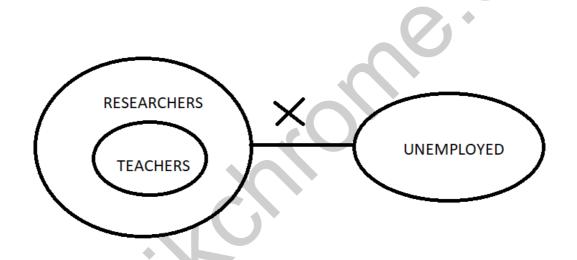
III. Some teachers are unemployed.

A Only conclusion II follows.

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

Answer: A

Explanation:



Conclusion I : Some unemployed are teache s

This can not be true as all teachers a e researche and no researcher is unemployed. So no teacher can be unemployed.

Conclusion 2 : No teacher is unemploye

This statement is true and can cleally be seen from the Venn diagram.

Conclusion 3 :some teac e s a e unemployed.

This statement can not be ue as it's contradictory to conclusion 2.

From the venn diag am it is clear that all teachers are researchers and hence neither a teacher nor a researcher can be unemployed. Therefore, only c clusion 2 follows.

Question 37

Select the option that is related to the third term in the same way as the first term is related to the second term. DFIM : WURN :: CMHV:

- A XNSE
- **B** XVTR
- C XNTE

D YNSE

Answer: A

Explanation:

Let us decode the relationship between DFIM and WURN

D is the 4th alphabet from the start in the English alphabetical sequence and W is the 4th alphabet from the end in the alphabetical order.

D - W

similarly,

F- 6th alphabet from the beginning,

and

U- 6th alphabet from the end.

DF-WU

I- 9th alphabet from the beginning

and

R- 9th alphabet from the end.

DFI-WUR

M-13th alphabet from the beginning

and

N-13th alphabet from the end

DFIM- WURN

Establishing the same relationship for CMHV

C- 3rd from beginning

X- 3rd from the end.

C-X

M-13th from the beginning

N-13th from the end.

CM-XN

H-8th from the beginning,

S-8th from the end

CMH-XNS

V-21st from the beginning

E-21st from the end.

CMHV-XNSE

Hence the right a wer is option A

Question 38

'Star' is related to 'Galaxy' in the same way as 'Flower' is related to '......'.

- A Jasmine
- B Blossom

- c Bouquet
- D Petal

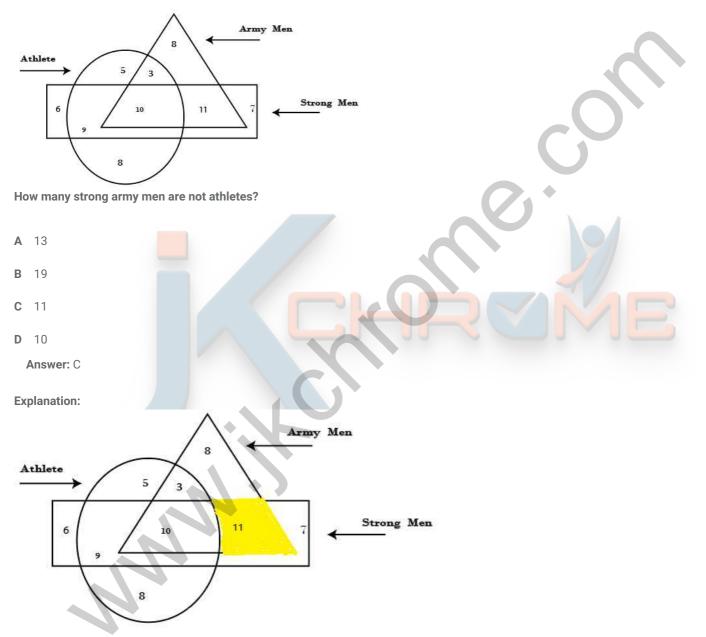
Answer: C

Explanation:

Bouquet is made up of flowers in the same way as Galaxy is made up of stars

Question 39

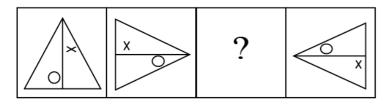
In the following diagram, the triangle represents 'army men', the circle represents 'athletes' and the rectangle represents 'strong men'. The numbers in different segments show the number of persons.

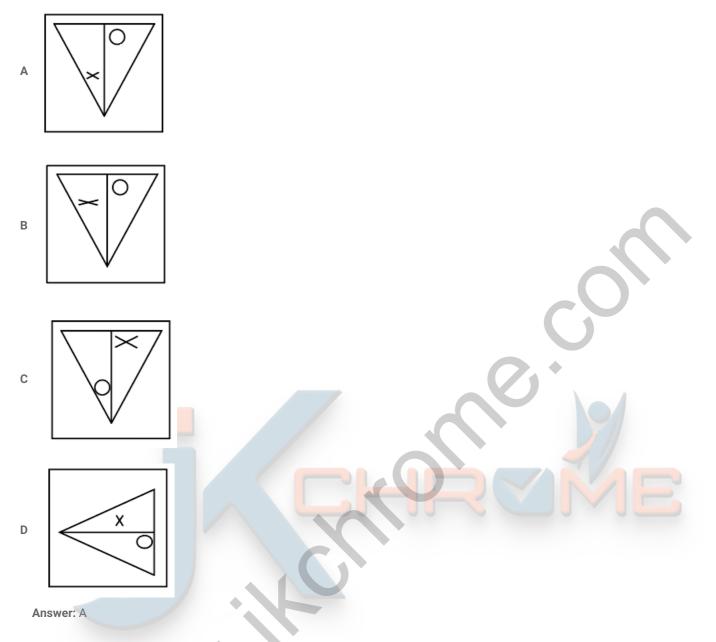


Eliminating the circular part that represent athlete and taking the intersecting(common) area of rectangle and triangle representing strong men and army men respectively we get the highlighted area which is equal to 11 units.

Question 40

Identify the missing figure in the following series.





Explanation:

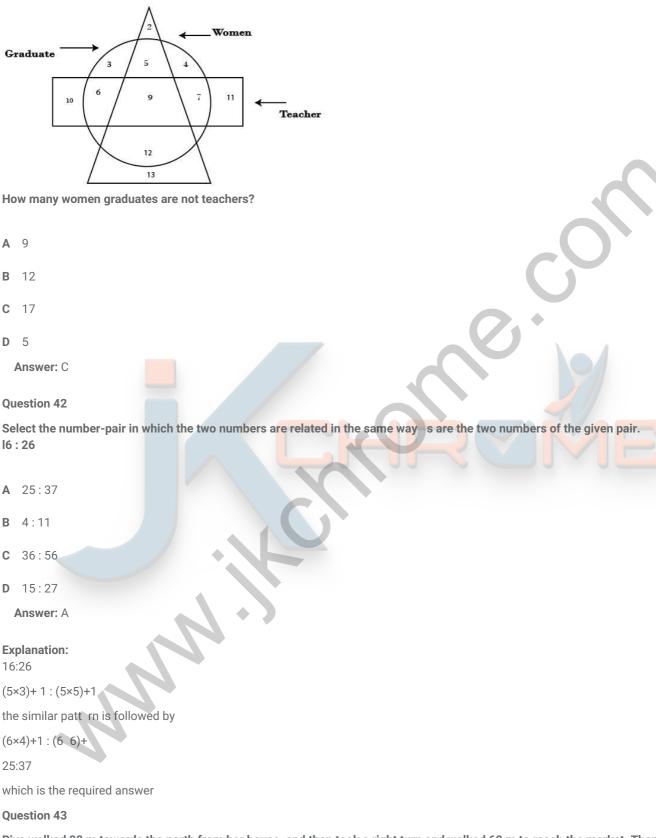
The triangle is moving in clockwi direction so the missing figure must be facing downwards.

the orientation of cross and ci le i side is changing alternatively.

for the first figure circle at t e T head and cross is at it's tail, for the second figure cross is at the T head and circle at the tail hence for the third figure circle will b at the T head and cross at the T tail.

therefore option A is the rig t answer.

In the following diagram, the triangle represents 'women', the circle represents 'graduates' and the rectangle represents 'teachers'. The numbers in different segments show the number of persons.

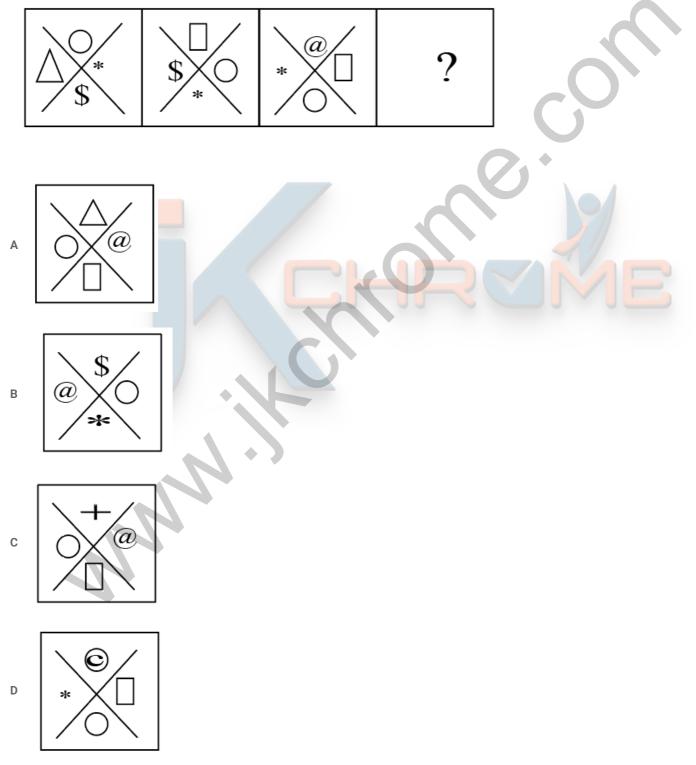


Riya walked 90 m towards the north from her house, and then took a right turn and walked 60 m to reach the market. Then, she took a left turn and walked a few meters from the market to reach the post office, from where she took a left turn again and walked 160 m to reach the school. If the air distance between Riya's house and the school is 260 m, what is the air distance between the market and the post office?

A 180 m

- **B** 120 m
- **C** 150 m
- **D** 100 m
 - Answer: C

Identify the missing figure in the following series.



Answer: C

'Picture' is related to 'Coloured' in the same way as 'Letter' is related to '.....'.

- A Bold
- **B** Alphabet
- C Word
- **D** Language

Answer: A

Question 46

Which two signs should be interchanged to make the following equation correct? $10-15\times9+6\div3=9$

- A and ÷
- \mathbf{B} ÷ and +
- \mathbf{C} + and -
- ${f D}~ imes$ and -
- Answer: A

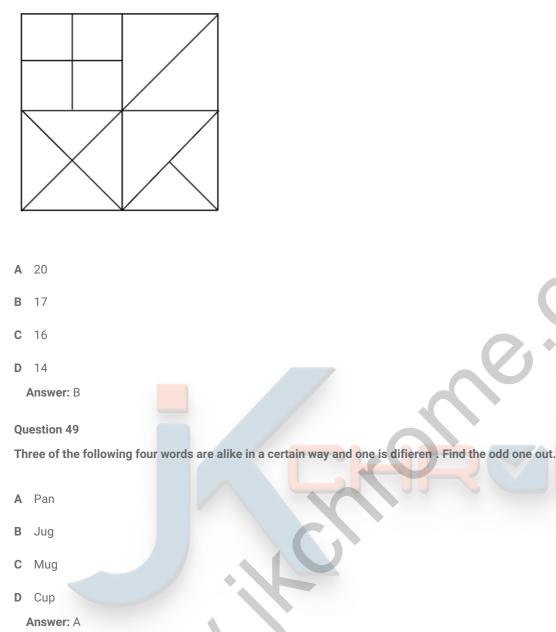
Question 47

Select the option that is related to the third term in the s me way as the second term is related to the first term. HKNQ : IJPO :: DFHJ:

- A EGJH
- B CGLJ
- C EEJH
- D EEII

Answer: C

How many triangles are there in the following figure?



Question 50

Select the correct a temative to indicate the arrangement of the following words in a logical and meaningful order.

- 1. Cloud
- 2. Shelter
- 3. Monsoon
- 4. Rain
- 5. Flood
- 6. Relief
- **A** 4, 1, 2, 5, 2, 6
- **B** 3, 1, 4, 5, 2, 6
- **C** 1, 3, 4, 5, 6, 2
- **D** 3, 1, 4, 2, 5, 6

Answer: B

General knowledge

Instructions

For the following questions answer them individually

Question 51

Which of the following is NOT a tributary of the Indus River?

- A Zaskar
- B Nubra
- C Shyok
- D Lohit

Answer: D

Question 52

NASA's spacecraft has been studying Jupiter for almost two years sin e the year 2016.

- A Muno
- B Bruno
- C Juno
- D Luno

Answer: C

Question 53

There are three types of hetero rop s. Which of the following is NOT one of them?

- A Consumers
- **B** Carnivores
- **C** Omnivores
- D Herbivores

Answer: A

Question 54

Which among the following is a dance form from the state of Arunachal Pradesh?

- A Popir
- B Bhavai

- c Sattriya
- D Purbi

Answer: A

Question 55

Who was the first Vice President of independent India?

- A Sarvepalli Radhakrishnan
- B Kishan Kant
- C Gopal Pathak
- D KR Narayanan

Answer: A

Question 56

Renowned writer Namita Gokhale was awarded for her work 'Things to Leave Beh d' under the 'Best Book of Fiction written by a Woman Author' category at the inaugural edition of Bhopal Literature and Art Fes ival.

- A Sushila Devi Literature Award
- B Jnanpith Award
- C Sahitya Academy Award
- D Yuva Puraskar AwardAnswer: A

Question 57

- is the study of fungi.
- A Geobiology
- B Mycology
- C Chronobiology
- D Geronotology
 - Answer: B

Question 58

Which of the following is NOT one of the great paradigms of biology?

- A Mendel s laws of inheritance
- B Archimedes' principle

- c Establishment of comparative biochemistry
- D Darwin s theory of evolution

Answer: B

Question 59

Tripura Chief Minister launched the Sustainable Catchment Forest Management (SCATFORM) project.

- A Bhupesh Baghel
- B Nitish Kumar
- C Biplab Kumar Deb
- D Pema Khandu

Answer: C

Question 60

In January 2019, the Finance Ministry asked the Public Sector banks to gradually reduce the Government's equity to per cent.

A 37	
B 45	
C 52	
D 63	
Answer: C	

Question 61

The Supreme Court has issued a notice to he Ce tral Government on questioning the centre's notification authorising 10 central agencies to intercept monitor and decrypt any computer system.

- A IPL
- B LPI
- C PIL
- D LIP
 - Answer: C

Question 62

...... became the fourth Indian wicket-keeper to take five catches on Test debut.

- A Dinesh Karthik
- B Parthiv Patel
- C Naman ojha
- D Rishabh Pant

Answer: D

Question 63

Union Minister of State for Shri Shripad Yesso Naik, inaugurated the 2^{nd} World Integrated Medicine Forum 2019.

- A Human Resource Development
- B Chemicals and Fertilizers
- C AYUSH
- D Health

Answer: C

Question 64

Nagaland became a part of the Union of India in the year 1963 by the Amendment to the Constitutio of India.

- A 17^{th}
- B 13^{th}
- $C \ 16^{th}$
- **D** 14^{th}
- Answer: B

Question 65

...... is one of the most important technique for the separa ion of a mixture by passing it in solution or suspension through a medium in which the components move at differ nt ra es

- A Filtration
- **B** Distillation
- **C** Evaporation
- D Chromatography

Answer: D

Question 66

The Union Minister for Civil Aviation released the Vision 2040 document in the Global Aviation Sunrnit 2019.

- A Suresh Prabhu
- B Prakash Javadekar
- C Piyush Goyal
- D Nirmala Sitharaman

Answer: A

It is believed that Lord Shiva assumed the form of and married Parvati at the site of the Meenakshi Temple in South India.

- A Pashupati
- B Harihara
- C Nataraja
- D Sundareshwarar

Answer: D

Question 68

The Battle of was fought in 326 BC by Alexander, the Great against King Porus.

- **A** Hydaspes
- B Tarain
- C Panipat
- D Plassey
 - Answer: A

Question 69

The dynasty which ruled North India from 1206 to 1290 was established by Qutbuddin Aibak.

- A Lodi
- B Tughlaq
- C Khilji
- D Slave

Answer: D

Question 70

..... is a New Y ar Celebration of Sikkimese Bhutia which falls in the 10th month of the Sikkimese Lunar calendar.

- A Ashura
- B Sonam Losoong
- C Vesak
- D Thai Pongal

Answer: B

Molecular mass of Sulphurous acid is:

- **A** 96.04
- **B** 98.07
- **C** 87.06
- **D** 82.07

Answer: D

Question 72

The Traffic Police Department of is looking at a futuristic model to maintain trafiic flow and spread awareness a out the traffic rules by introducing a robot named 'Roadeo'.

- A Ahmedabad
- B Mumbai
- C Pune
- D Delhi
 - Answer: C

Question 73

India's ace sprinter and Asian Games gold-medalist, as appointed as first ever youth ambassador of United Nations Children's Fund (UNICEF) India.

- A Jisna Mathew
- B Hima Das
- C Mandeep Kaur
- D Manjeet Kaur

Answer: B

Question 74

Andaman and Ni obar Islands is a group of islands/islets.

- **A** 275
- **B** 450
- **C** 780
- **D** 572
 - Answer: D

An Indian team of scientists led by of Physical Research Laboratory (PRL), have discovered a sub-Saturn or super-Neptune size planet around a Sun-like star.

- A Professor Abhijit Chakraborty
- B K Radha Krishnan
- **C** Padmanaban
- D Abhas Mitra

Answer: A

Question 76

Post the Anglo-Mysore wars, whom did the East India Company appoint as the Governor of Bengal

- A Robert Clive
- B Sir Charles Metcalfe
- C Lord Hardinge
- D Warren Hastings
 Answer: A

Question 77

Where is the Duncan Pass located?

- A Goa
- B Telangana
- C Andhra Pradesh
- D The Andaman and Nicobar Isla ds

Answer: D

Question 78

'Angry Akku' by received The Hindu Young World-Goodbooks Award for Best Picture Book: Story in The Hindu Literary Prize 2018 which was awarded during The Hindu Lit for Life 2019.

- A Rajiv Eipe
- B Mamta Nainy
- C Neelum Saran Gour
- D Vinayak Varma

Answer: D

The Union Cabinet chaired by Prime Minister Narendra Modi has approved the Agriculture Export Policy, 2018, with an aim to increase farmer's income by % by 2022.

- **A** 50%
- **B** 100%
- **C** 25%
- **D** 75%
 - Answer: B

Question 80

The Committee headed by Deputy Election Commissioner has submitted the report on revisiting the Section 126 of the Representation of the People Act.

- A Chandra Bhushan Kumar
- B Nasim Zaidi
- C Umesh Sinha
- D Achal Kumar Jyoti

Answer: C

Question 81

The was awarded the International Gandhi Peace Prize 2017 for its work in the field of education for rural and tribal children, rural empowerment and gender and social equality.

- A Akshaya Patra Foundation
- B Ekal Abhiyan Trust
- C Vivekananda Kendra
- D Sulabh International

Answer: B

Question 82

Persea Americana is commonly known as

- A Avocado
- **B** Watermelon
- C Orange
- **D** Grapes

Answer: A

Question 83

Kalhana penned the book named in 12th century which is a metrical historical chronicle of the kings of Kashmir.

- A Tarikh-i-Firuz Shahi
- B Nuh Sipihr
- **C** Rajatarangini
- D Padmavat

Answer: C

Question 84

The Delhi Higr Court has allowed the release of the movie '72 Hours – Martyr who never died', based on he life of the 1962 war hero Rifleman who was posthumously awarded the Maha Vir Chakra for gallantry.

- A Jaswant Singh Rawat
- B Harbans Singh Virk
- C Man Mohan Khanna
- D Rajendra Singh
 - Answer: A

Question 85

The Hindu Literary Prize 2018 for non-fiction was aw rded to Activist, author of 'Interrogating my Chandal Life: An Autobiogaphy of a Dalit' during The Hindu Li for Life 2019.

- A Venita Coelho
- B Mamta Nainy
- C Manoranjan Byapari
- D Vmayak Varma

Answer: C

Question 86

The Tropic of Cancer passes through 8 Indian states. Which of the following is NOT one of them?

- A Rajasthan
- B Assam
- C West Bengal
- D Chhattisgarh
 - Answer: B

Who is the Railway Minister of India as on January 2019?

- A Arun Jaitley
- B Piyush Goyal
- C Suresh Prabhu
- D Nitin Gadkari

Answer: B

Question 88

India celebrates Army Day on to salute the valiant soldiers who sacrificed their lives to protect the countr

- A February 15
- B March 10
- C January 15
- **D** August 17
 - Answer: C

Question 89

The 18th Asian Games were held in the cities of and n Indonesia from August 18 to September 2, 2018.

- A Medan and Makassar
- B Bandung and Surbaya
- **C** Malang and Padang
- D Jakarta and Palembang

Answer: D

Question 90

Panthi is a dance form from which of the following states?

- A Odisha
- **B** Rajasthan
- C Chhattisgarh
- D Bihar

Answer: C

Who was appointed as the first Chief Justice of independent India?

- A Bijan Mukherjee
- B A R Sarkar
- C Harilal Kania
- D Y V Chandrachud

Answer: C

Question 92

Shaktikanta Das took over as the Governor of Reserve Bank of India after the resignation of Urjit Patel.

- A 26^{th}
- **B** 27th
- C 24^{th}
- D 25^{th}
 - Answer: D

Question 93

The High Court of Kerala had disqualified an independent MLA from the Koduvally Assembly constituency for his defamatory campaign against the rival candidate during the 2016 Assembly p IIs.

- A Kamal Nath
- B Himanta Biswa Sarma
- C Karat Razack
- **D** Ahmed Patel
 - Answer: C

Question 94

India-Myanmar bila e al army exercise, IMBEX 2018-19, has begun at Military Station which houses the headquarters of the Western Command.

- A Tandur
- B Chandi mandir
- C Pasan
- D Ramth

Answer: B

Vesak commerates the birth of

- A Christ
- B Mahavir
- C Judas
- D Buddha

Answer: D

Question 96

Indian athlete won gold medal in women's Heptathlon Athletics event at 18th edition of Asian Games held in Jaka ta-Palembang in Indonesia.

- A Anju Bobby
- B Swapna Barman
- C Anjali Bhagwat
- D Sakshi Malik
 - Answer: B

Question 97

Which amongst the following is NOT one of the four main factors of production?

- A Land
- B Labour
- **C** Expenditure
- D Entrepreneurship

Answer: C

Question 98

...... is the firs institute in the country to launch a full-fledged bachelor's programme in Artificial Intelligence (AI) technology.

- A IIT Hyderabad
- B IIT Kanpur
- C IIT Delhi
- D IIT Bombay

Answer: A

Question 99

By whom was the play 'Caesar and Cleopatra' written?

- Joy Adamson Α
- В Thomas Powers
- George Bernard Shaw С
- D Ernest Hemingway

Answer: C

Question 100

Eminent economist and columnist has resigned as part-time member of Economic Advisory Council to the Prime Minister (EAC-PM) in December 2013.

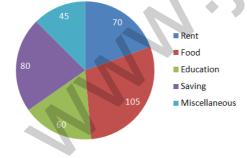
Α surjit Bhalla Arvind Subramanian В Shivshankar Menon С D Urijit Patel Answer: A Quant Instructions

For the following questions answer them individually

Question 101

In the given pie-chart. the amount spend o edu ation is what percent of the savings?

Degree of amount incurred in different Expenditure(Total ₹43,200)



- 80% Α
- В 60%
- 70% С
- D 75%

Answer: D

Two numbers are in the ratio 5 : 11. If their HCF is 24, then the sum of two these numbers is:

- **A** 384
- **B** 408
- **C** 120
- **D** 264

Answer: A

Question 103

One side of a rhombus is 26 cm and one of the diagonal is 48 cm. What is the area of the rhombus?

A	624 cm^2
В	580 cm^2
С	520 cm ²
D	480 cm ²
	nswer: D
Qu	estion 104
lft	e seven digit number 56x34y4 is divisible by 72, then hat is t e least value of (x + y)?
Α	8
В	12
С	5
D	14
	nswer: C

Question 105

ABCD is a cyclic quadrilateral such that AB is the diameter of the circle circumscribing it and $\angle ADC = 155^{\circ}$. then what is the measure of $\angle BAC$?

- A 35°
- B 55°
- $C 65^{\circ}$
- D 45°

Answer: C

In a class of 70 students, 40% are girls and remaining are boys. The average marks of the boys are 63 and that of the girls are 70. What is the average marks of the whole class?

- **A** 65.4
- **B** 65.8
- **C** 65.2
- **D** 64.8

Answer: B

Question 107

The sides of a triangle are 16 cm, 30 cm and 34 cm respectively. At each vertices, circles of radius 7 cm are dr wn What is the area of the triangle. excluding the portion covered by the sectors of the triangle? ($\pi = \frac{22}{7}$)



If a train runs with the speed of 36 km/h, it reaches its destination 15 minutes late. However, if its speed is 45 km/h. it is late by only 4 minutes. The correct time to cover its journey in minutes is:

- **A** 22
- **B** 27
- **C** 25
- **D** 40
 - Answer: D

From a point P outside the circle with centre O. two tangents PA and PB are drawn to meet the circle at A and B respectively. If $\angle APB = 70^{\circ}$. then $\angle OAB$ is equal to:

- A 35°
- В 65°
- С 45°
- D 55°

Answer: A

Ouestion 111

The price sugar has increased by 18%, By what percentage can a person decrease the consumption so that, there is no change in the expenditure? (correct to one decimal place)

- Α 15.9%
- В 15.7%
- 15.5%

С

- D 15.3%

Answer: D

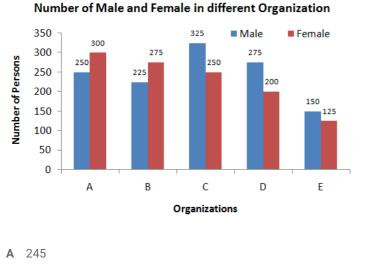
Question 112

18 persons working 8 hours a day can complete 3 un ts of works in 10 days. How many persons are required to complete 5 units of that work in 16 days working 6 hours a day

- Α 25
- В 15
- С 20
- D 9

Answer: A

In the given bar graph, what is the average number of females in all five organisations?







- 230
- **D** 225

Answer: C

Question 114

A boat can go 20 km downstream and 30 km upstream in 2 hours 20 minutes. Also, it can go 10 km downstream and 8 km upstream in 49 minutes. What is the speed of boat downstream in km/h?

Α	18

- **B** 20
- **C** 16
- **D** 24

```
Answer: D
```

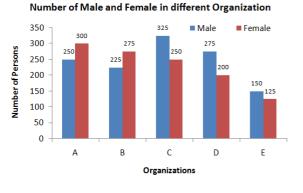
Question 115

The value of	$\sin^2 30$	$\cos^2 45^\circ +$	$2 \tan^2 30^{\circ} -$	sec^260° is eq.	ual to:
--------------	-------------	---------------------	-------------------------	---------------------------------	---------

A $-{}^{13}_{12}$

- **B** $-\frac{77}{24}$
- $c {25 \atop 12}$
- **D** $\begin{pmatrix} 1 \\ -12 \end{pmatrix}$
 - Answer: B

In the given bar graph, what is the ratio of the total males and females working in all organisations?



- **A** 49:46
- **B** 35:46
- **C** 46:40
- **D** 46:35

Answer: A

Question 117

The average of 22 numbers is 52. The average of the first 8 numbers is 48 and the average of next 11 numbers is 54. The 20^{th} number is 7 less than the 21^{st} number and 21^{st} number is 4 more han 22^{nd} number. What is the average of the 20^{th} and 22^{nd} numbers?

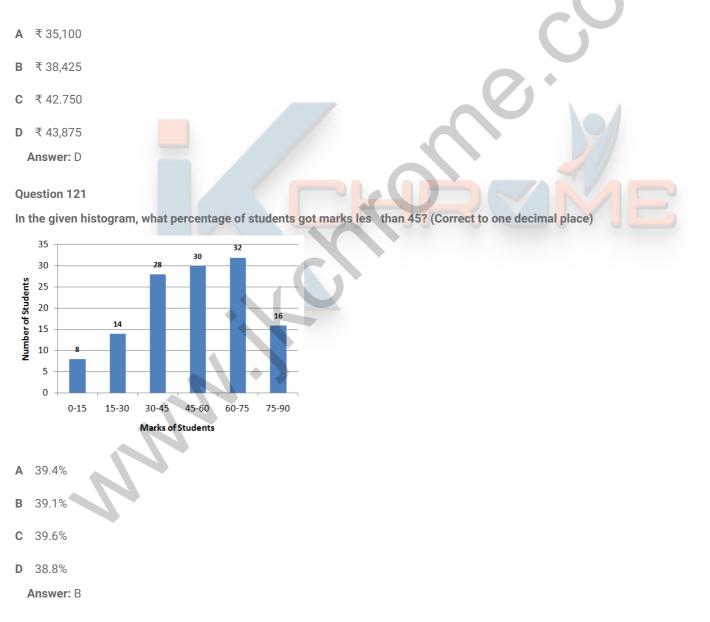
A	52
В	52.5
С	53
D	53.5
	Answer: D
Qu	uestion 118
Fre	om the top of 75 m high tower, the angle of depression of two points P and Q on opposite side of the base of the tower on level
gr	ound is $ heta$ and ϕ such that $ an heta=rac{3}{4}$ and $ an\phi=rac{5}{8}$. What is the distance between the points P and Q?
Α	190 m
В	200 m
С	180 m
D	220 m
	Answer: D

Question 119

The radius of a cylinder is increased by 150% and its height is increased by 50%. What is the percentage increase in its volume?

- **A** 375%
- **B** 625.5%
- **C** 775.75%
- **D** 837.5%
 - Answer: D

A. B and C started a business by investing ₹ 27,500. ₹ 32,500 and ₹ 37,500 respectively. A is a working partner and gets 20% of profit as working allowance and the remaining is distributed in proportion of their investments. If the money received by C is ₹ 13,500, What is total profit?



Question 122

The Square root of which of the following is a rational number?

A 2361.96

- **B** 2758.28
- **C** 72568.4
- **D** 62504.9
 - Answer: A

What is the sum of the digits of the least number, which when divided by 15. 15 and 27 leaves the same remainder 9 in each case and is also completely divisible by 11?



Question 125

A shopkeeper marks an amide at price such that afier giving a discount of 25%. the gains x%. If the cost price and the marked price of the article are ₹ 460 and ₹ 736 r spectively. what is the value of x?

- **A** 20%
- **B** 18%
- **C** 24%
- **D** 16%

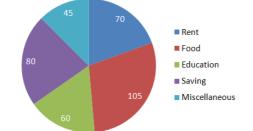
Answer: A

Question 126

 $\text{Let} \ \triangle ABC \sim \triangle RPQ \text{ and } \overset{ar(\triangle ABC)}{ar(\triangle PQR)} = \overset{1}{4}. \text{ If } PQ = 4 \text{ cm, } QR = 6 \text{ cm and } PR = 7 \text{ cm, then } AC \text{ is equal to.}$

- A 2 cm
- **B** 4 cm
- **C** 3 cm
- **D** 3.5 cm
 - Answer: C

Degree of amount incurred in different Expenditure(Total ₹43,200)



In the given pie-chart, total expenditure together on rent and education is what percent less than total expenditure of food and miscellaneous items?

A 26% B 30%
D 40 3% Answer: D
Question 128 $5\frac{1}{5} - \left[3\frac{1}{2} - \left\{\frac{5}{6} - \left(\frac{3}{5} + \frac{1}{10} - \frac{4}{15}\right)\right\}\right]$ is equa to:
A ²¹ ₁₀
B ⁷ / ₅
C ⁷ / ₃
$D \frac{8}{3}$ Answer: A

Question 129

The efficiencies of A, B and C are in the ratio 2:5:7 working together, they can complete a work in 10 days. In how many days will. A alone be able to complete 30% of that work?

- **A** 20
- **B** 28

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- **c** ³⁰
- **D** 21

Answer: D

```
Question 130
```

In an examination, 53% of the candidates failed in science and 48% failed in mathematics. If 40% failed in both subjects, what percentage passed in both subjects?

- **A** 51%
- **B** 39%
- **C** 49%
- **D** 43%

Answer: B

Question 131

TWO pipes A and B can fill an empty tank in 10 hours and 16 hours respectively. They are opened alternately for 1 hour each, starting with pipe A first. In how many hours, the empty tank will be filled?

A $12\frac{1}{3}$	
B 12^{1}_{8}	
C $12^{\frac{1}{4}}$	
D 12^{1}_{6}	
Answer: C	

Question 132

The successive discounts of 20% 10% nd 8% is equivalent to a single discount of:

A 66.24%

- **B** 32.84%
- **C** 38%
- **D** 33.76%

```
Answer: D
```

Question 133

If $\sin(A+B)=\frac{\sqrt{3}}{2}$ and $\tan(A-B)=\frac{1}{\sqrt{3}}$, then (2A+3B) is equal to:

- A 120°
- **B** 135°

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- c 130°
- D 125°

Answer: B

```
Question 134
```

A sum of ₹ 12,000 is invested for 15 months at 10% per annum compounded half yearly. What is the percentage gain, at the end of 15 months. correct to one decimal place?

- **A** 13.0%
- **B** 13.1%
- **C** 12.8%
- **D** 12.9%

Answer: A

Question	135
Question	133

What is the ratio of mean proportional between 1.8 and 3.2 and the third proportional o 5 and 3?

A 3:5	
B 4:3	
C 3:4	
D 5:3	
Answer: B	
Question 136	
In $ riangle ABC, riangle A=40^\circ.$ If	f the bisectors ofthe $ ot\! B$ and $ ot\! C$, meet at a point $O.$ then $ ot\! BOC$ is equal to:
A 120°	

A 130°

- **B** 90°
- \mathbf{C} 70°
- **D** 110°
 - Answer: D

Question 137

Pipes A and B can fill a tank in 12 hours and 16 hours respectively and pipe C can empty the full tank in 24 hours. All three pipes are opened together, but after 4 hours pipe A is closed. In how many hours from the beginning the tank be filled?

- **A** 24
- **B** 28
- **C** 30

D 32

Answer: D

Question 138

8 cubes, each of edge 5 cm, are joined end to end. What is the total surface area of the resulting cuboid?

- A 850 cm^2
- **B** 825 cm^2
- **C** 1200 cm^2
- **D** 800 cm^2

```
Answer: A
```

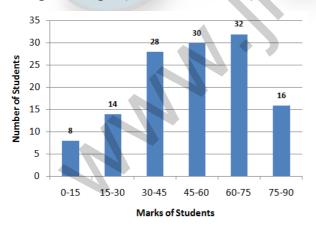
Question 139

A shopkeeper sold two articles for ₹ 9639 each. On one, he gained 19% and on the other hell st 19%. What is the overall percentage gain or loss?

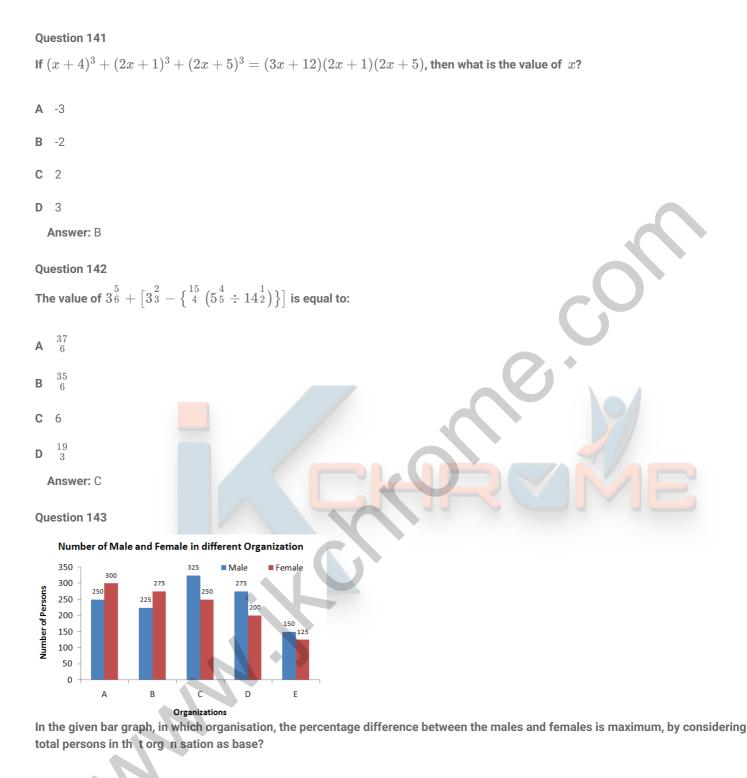
- A 3.81% loss
- **B** 3.61% gain
- **C** 3.81% gain
- **D** 3.61% loss
- Answer: D

Question 140

In the given histogram, in which class interval, he median marks lies?



- **A** 30-45
- **B** 45-60
- **C** 60-75
- **D** 15-30
 - Answer: B





D C

Answer: A

The angle of elevation of top of a tower from a point P, on the ground is θ such that $\tan \theta = \frac{12}{5}$. If distance of the point P, from the base of the tower is 75 m, what is the height of the tower?

- **A** 160 m
- **B** 200 m
- **C** 190 m
- **D** 180 m

Answer: D

Question 145

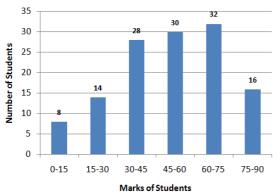
If the income of A is 40% more than the income of B, then by what percentage is B's income less than that income of A?



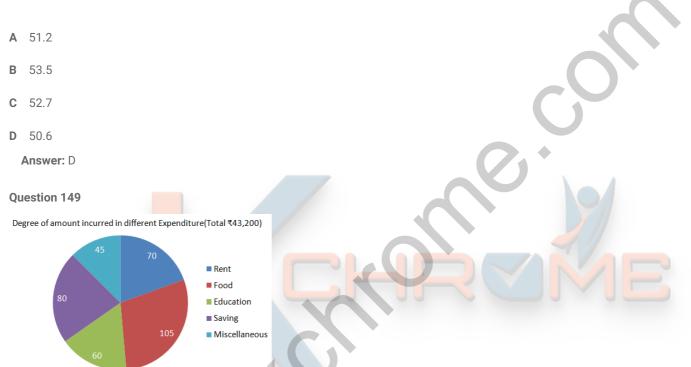
Question 147

A sum of ₹ 15 600 is invested partly at 7% per annum and the remaining at 9% per annum simple interest. If the total interest at the end of 3 years is ₹ 3,738. how much money was invested at 7% per annum?

- **A** ₹7,800
- **B** ₹ 7,900
- **C** ₹ 7,600
- **D** ₹ 7,700
 - Answer: B



In the given histogram, what is the mean marks of the students. correct to one decimal place?



In the given pie-chart, what is the total expenditu e on rent?

- **A** ₹ 8,400
- **B** ₹ 8,600
- **C** ₹ 8,800
- **D** ₹ 8,900
- Answer: A

Question 150

A sphere of radius 7 cm is melted and recast into small spheres of radius 2 cm each. How many such spheres can be made?

- **A** 40
- **B** 42
- **C** 41

D 43

Answer: B

English

Instructions

For the following questions answer them individually

Question 151

Select the wrongly spelt word.

- A devilish
- B device
- **C** deviation
- D deveous

Answer: D

Question 152

Select the wrongly spelt word.

- A evaporation
- B establish
- C essential
- **D** evaluetion

Answer: D

Question 153

Select the most appropete words to fill in the blanks. I expect to return Mum ai March 15.

- A from; on
- B to; at
- **C** from; in
- D at: in

Answer: A

Question 154

Select the most appropriate word to fill in the blank. After three months of practice, I now swim quite fast.

- A cannot
- B should
- C can
- D could
 - Answer: C

Select the antonym of the given word. STINGY

- A kind
- **B** generous
- C mean
- **D** miserly

Answer: B

Question 156

In the sentence identify the segment which contains the grammatial error. Either Avika or Nikunj are going to win the prize in the handwriting competition.

- A Either Avika
- B or Nikunj
- **C** in the
- D are going to

Answer: D

Question 157

Select the most appropri te m aning of the given idiom. get out of hand

- A to act ir e po sibly
- B to become uncontrollable
- **C** to be indecisive
- D to lose courage

Answer: B

In the sentence identify the segment which contains the grammatical error. Neither I nor my sisters was interested in learning music.

- A nor my sisters
- **B** in learning music.
- **C** was interested
- D Neither I
 - Answer: C

Instructions

Read the following passage and answer the questions given after it. Passage:

The much-awaited expansion of Delhi s Indira Gandhi hrternational Airport is expected to begin by Ma he d as t e airport operator has received three bids for the R 9.000-crore project. two officials familiar with the matter said.

Two bids are fi'om foreign companies while one is from an Indian firm. The airport operator. the GMR G up-led Delhi International Airport Ltd (DIAL). is expected to finalise the bidder this week. After the armouncement. the successful bidder is expected to take around two months to mobilise the workforce and begin expansion work.

The bid document says the selected company has to complete work in 42 months All he t e bidders are reported to have quoted 39 months. the sources said.

The expansion is aimed to meet the rapid traffic growth that has already made GI Asia's seventh busiest airport. The selected company will work on the expansion of Terminal 1 and Terminal 3 and t e co struction of a new runway and taxiways. Roads leading to the airport will be widened and new approach roads will be built. The operator expects the expansion, which will start with Terminal 1, to be completed by 2021 – taking the overall handling capacity of the alpoint to 85 million passengers per year from the current 70 million. It will be followed by Phase 2 of the expansion, which i clude construction of another brand new terminal.

Data released last year by Airports Council International showed that the passenger traffic at the Delhi Airport grew 14.1% year on year to 63.45 million in 2017. It was the first time it breached to e 60 million passenger mark. In 2018, it was just below 70-million mark. The new air traffic control (ATC) tower, which will open in 2019, and the fourth runway, to be laturcired in 2021, would help it reduce air congestion and handle more flights.

"Terminal 1 handles domestic traffic for low-cos ca ie s. These have registered a phenomenal growth in the last few years, calling for an expansion of the terminal. Delhi Metro ru er its Phase 3 programme is connecting this terminal to catchment areas of central and south Delhi. Since T1 is operating beyond its capacity, the expansion will begin from there and cover the airside. terminal building and city side." said a DIAL official.

According to the Master Plan, T1 s capa, ity will increase fi'om 20 million to 40 million and that of Terminal 3 hour 34 million to 45 million.

Inter-terminal connectivity t o gh the Airport Metro between T1 and T3 is also part of the expansion plan.

DIAL has appointed AECO a design and development consultant for infrastructure projects, to complete the preliminary design for the expansion o k

Question 159

From the reading of the paragraph it can be inferred that it is:

- A a news item
- B a survey report
- c an airport novel
- D a promotional article

Answer: A

The expansion of the airport will begin from:

- A Construction of a new terminal to handle the increasing load.
- **B** Terminal 3 which handles international traffic.
- C Construction of a new runway and taxiways.
- **D** Terminal 1 which handles fast growing domestic traffic.

Answer: D

Question 161

In 2018, the number of passengers that the Delhi Airport handled was:

- A 63.45 million
- B 40 million
- **C** just below 70 million
- D 45 million

Answer: C

Question 162

Which of the following measures will help the airport reduce air c nge tion and handle more flights for the time being?

- A building Inter-terminal connectivity between T1 a d T3
- B construction of air control tower and a new ru ay
- C construction of taxiways and widening of a proach roads
- D construction of a brand new t minal

Answer: B

Question 163

Which agency has been appointed to prepare the design for the expansion of the Delhr airport?

- A Airports Cou il International
- B G M R group
- C AECOM
- D DIAL

Answer: C

Instructions

For the following questions answer them individually

Question 164

Select the antonym of the given word. IMPECCABLE

- A faultless
- B unsullied
- **C** imperfect
- D methodical

Answer: C

Question 165

Select the most appropriate meaning of the given idiom. to drive someone up the wall

- A to help someone in difficulty
- B to keep at a distance
- C to irritate someone very much
- D to frighten someone

Answer: C

Question 166

Select the synonym of the given word. VELOCITY

- A flight
- B race
- C speed
- **D** hurry

Answer: C

Question 167

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.

People arrive from all parts of the country and <u>had walked miles to take a dip</u> at the confluence of the Rivers Ganga and Yamuna.

- A are walking miles to take a dip
- B walk for miles to take a dip
- C had walked miles taking a dip

D N0 improvement

Answer: B

Question 168

- Select the wrongly spelt word.
- A releive
- B recruit
- **C** receipt
- D realm

Answer: A

Question 169

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

He has not taken any coaching in the game but <u>he plays good than</u> many professional players.

- A He is playing good than
- **B** he plays the best than
- c he plays better than
- D No improvement

Answer: C

Question 170

Select the antonym of the given word. AMIABLE

- A comfortable
- B friendly
- **c** hostile
- D cordial
 - Answer: C

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.

Not only she objected his proposal but also condemned it in strong terms.

- A Not only did she object
- B Not only did she objected
- C Not only she had objected

Question 171

D No improvement

Answer: A

Question 172

Select the wrongly spelt word.

- A violin
- B visionary
- C vecious
- D voyage
 - Answer: C

Question 173

Select the synonym of the given word. ACCURATE

- A precise
- B truthful
- C condensed
- D pacify

Answer: A

Question 174

Select the most appropriate word to fill n the la k There was a lot of rubbish on the floor so 1 sked Sangeeta to sweep away.

- A them
- B this
- C it
- D its

Answer: C

Question 175

Select the antonym of the given word. COHERENT

- A constant
- **B** illegible
- C consistent
- D illogical

Answer: D

Question 176

Select the antonym of the given word. WEARY

A quick

- B alert
- **C** tired
- D refreshed

Answer: D

Question 177

Select the most appropriate word for the given group of words. a large bound bundle of paper, hay or cotton

- A barrel
- B bale
- C gale
- D cache

Answer: B

Question 178

Select the most appropriate word to fill in th blank. I felt something hard my cheek.

- A hit
- **B** to hitting
- **C** to be hitting
- D to hit

Answer: A

Question 179

Select the wrongly spelt word.

- A competition
- B explaination
- **C** acquisition

D illurrrination

Answer: B

Question 180

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.

The Kumbh Mela has been held at Allahabad, since centuries now because in the past two decades it has grown into a mega event.

- A for centuries now but in the past
- B N0 improvement
- C since centuries now but in the past
- D for centuries now moreover in the past

Answer: A

Question 181

In the sentence identify the segment which contains the grammatical error. She is always frnding fault with the food I cook.

- A I cook.
- B fault with
- C the food
- D is always finding

Answer: D

Question 182

In the sentence identify the segment which con ains the grammatical error. This test comprises of grammar voca ulary and r ading comprehension.

- A grammar, vocabulary
- B This test
- C and reading comprehension
- D comprises of

Answer: D

Question 183

Select the most appropriate word for the given group of words. instrument used for coding and decoding messages

- A chronorneter
- B cryptograph

- c cardiograph
- D crescograph

Answer: B

Question 184

Select the most appropriate meaning of the given idiom. to give the slip

- A to keep low
- B to escape
- C to hit someone
- D to hide

Answer: B

Question 185

Select the synonym of the given word. IMMERSE

A drown

B bathe

C shower

D submerge

Question 186

Select the synonym of the given word AWKWARD

A skillful

B clumsy

- C pleasant
- D graceful

Answer: B

Question 187

Select the most appropriate word for the given group of words. the base frame of a car or other wheeled vehicle

- A fuselage
- B bonnet

- c chassis
- D cockpit
 - Answer: C

Select the synonym of the given word. RADICAL

- A trivial
- B absolute
- **C** minor
- D moderate

Answer: B

Question 189

Select the most appropriate word to fill in the blank. The offer is good. You will regret you decline it.

- A unless
- B whether
- C if
- D therefore
 Answer: C

Question 190

Select the most appropriate meaning of the given idiom. the whole nine yards

- A an act of kindness
- B the entirety of somet i g
- C an essential pa t
- **D** an enjoyable situation

Answer: B

Question 191

Select the most appropriate word for the given group of words. things or people of the same kind

A contemporaries

- B homogeneous
- C fellows
- **D** colleagues
 - Answer: B

In the sentence identify the segment which contains the grammatical error. The village. with all its houses. were flooded by the river.

- A by the river
- B were flooded
- C its houses
- D with all

Answer: B

Question 193

Select the most appropriate option to substitute the underlined segment in the given sen nce f there is no need to substitute it. Select No improvement.

It is difficult to distinguish in the two brothers.

- A No improvement
- B in both the two brothers.
- C among the two brothers.
- D between the two brothers.

Answer: D

Question 194

Select the most appropriate meaning of the given idiom. hit the nail on the head

- A to make the p eci ely correct point
- **B** to hit someo on the head
- C to assess the situation immediately
- D to handle a difi'rcult situation

Answer: A

Question 195

Select the most appropriate word for the given group of words.

a small group of people having control of a country

- A oligarchy
- B plutocracy
- **C** aristocracy
- **D** theocracy
 - Answer: A

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 number.

Passage:

Question 196

Select the most appropriate option to fill in blank No.1.

- A It
- B They
- C Those
- D them
 - Answer: B

Question 197

Select the most appropriate option to fill in blank No.2.

- A get
- B cut
- **c** eat
- D waste
 - Answer: C

Question 198

Select the most appropriate option to fill in blank No.3.

- A All
- B Whole
- C This
- D Every

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Answer: D

Question 199

Select the most appropriate option to fill in blank No.4.

- A Because
- B However
- **C** Moreover
- D Though

Answer: B

Question 200

Select the most appropriate option to fill in blank No.5.

- A continued
- B started
- c embarked
- D instigated
 - Answer: B



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