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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 following equation correct?

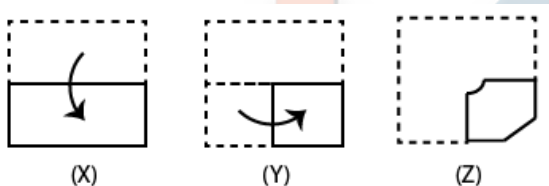
$$8 + 12 \div 9 \times 6 - 4 = 12 \div 6 \times 8 + 9 - 1$$

- A 6 and 12
- B 8 and 4
- C 12 and 8
- D 6 and 9

Answer: A

Question 2

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

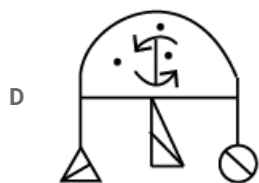
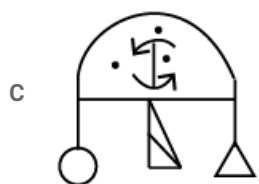
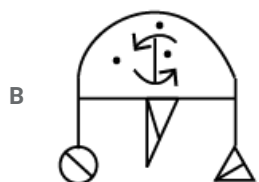
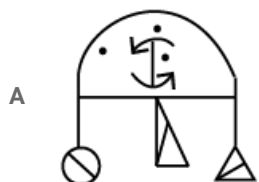
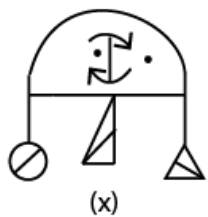


- A
- B
- C
- D

Answer: D

Question 3

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



Answer: D

Question 4

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

3, 5, 10, 18, 29, ?, 60

A 37

B 46

C 45

D 43

Answer: D

Question 5

In a code language, EXPLAIN is written as XEALPNI. How will FACTORY be written in that language?

- A AFTCROY
- B AFTOCYR
- C AFOTCYR
- D CAFOTYR

Answer: C

Question 6

If DRIVE is coded as 59372 and SPUR is coded as 6489. what will be the code for PRIDE?

- A 49235
- B 94532
- C 43925
- D 49352

Answer: D

Question 7

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

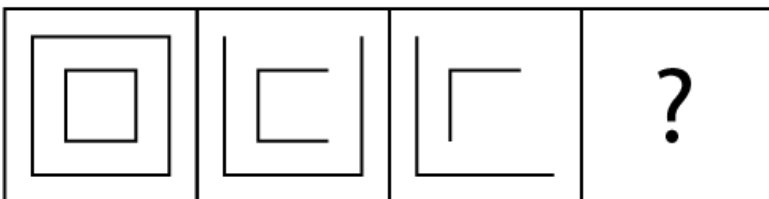
1. Fruit
2. Harvest
3. Seed
4. Sell
5. Plant

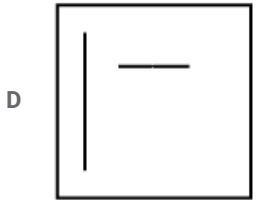
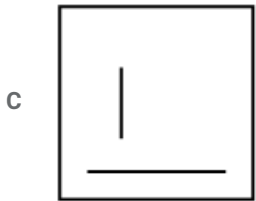
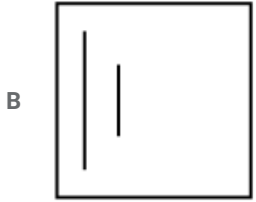
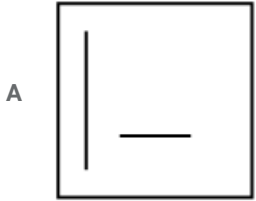
- A 3, 1, 5, 2, 4
- B 3, 5, 1, 2, 4
- C 1, 3, 5, 2, 4
- D 4, 2, 1, 3, 5

Answer: B

Question 8

Identify the missing figure in the following series.

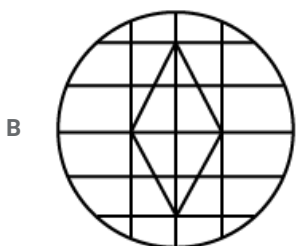
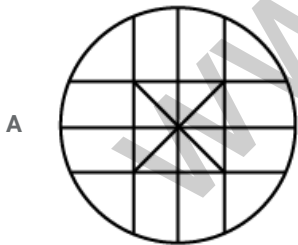


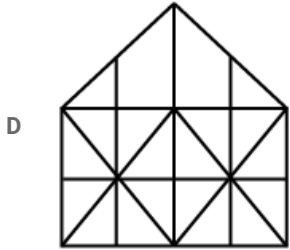
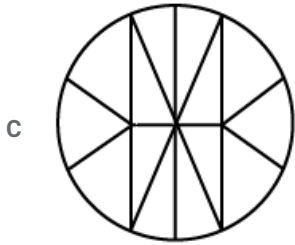


Answer: D

Question 9

Select the option in which the given figure is embedded.





Answer: B

Question 10

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

- A 19 : 40
- B 21 : 45
- C 9 : 20
- D 14 : 30

Answer: B

Question 11

Select the set of numbers that is similar to the following set.
{5, 10, 17 }

- A {37, 50, 65}
- B {17, 35, 72}
- C {24, 35, 48}
- D {26, 50, 65}

Answer: A

Question 12

Rinky walked 70 111 towards the east from her house. and then took a right turn and walked 50 m to reach the post office. From there. she took a right turn again and walked 150 m to reach the market, from Where she took a left turn and walked a few meters to reach the school. If the air distance between Rinky's house and the school is 170 in. What is the air distance between the market and the school?

- A 100 m
- B 120 m

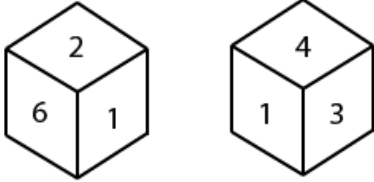
C 90 m

D 70 m

Answer: A

Question 13

Two positions of the same dice are given. Which number will be at the top if '6' is at the bottom ?



A 1

B 5

C 3

D 4

Answer: D

Question 14

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

A 975 : 753

B 739 : 527

C 697 : 475

D 456 : 234

Answer: B

Question 15

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:

Some animals are mammals.

No mammal is herbivore.

Conclusions:

I. No herbivore is mammal.

II. Some mammals are animals.

III. No animal is herbivore.

A Only conclusions I and II follow.

B None of the conclusions follows.

C Only conclusions II and III follow.

D Only conclusions I and III follow.

Answer: A

Question 16

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

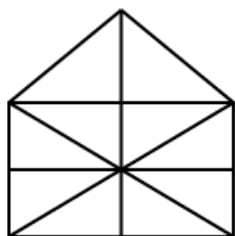
9 : 19 :: 29 :

- A 59
- B 39
- C 49
- D 69

Answer: A

Question 17

How many triangles are there in the following figure ?



- A 21
- B 23
- C 14
- D 19

Answer: A

Question 18

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

- A MSOQ
- B GPJM
- C RXTV
- D NEHK

Answer: D

Question 19

If FATHER = 7 and DAUGHTER = 9, then DISTANT =

- A 10
- B 6

C 7

D 8

Answer: D

Question 20

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

A Stress

B Concentrat on

C Fat gue

D Tens on

Answer: B

Question 21

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

9 : 21 :: 27 :

A 63

B 72

C 51

D 49

Answer: A

Question 22

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

5, 7, 11, 14, 23, ?, 43, 48

A 26

B 31

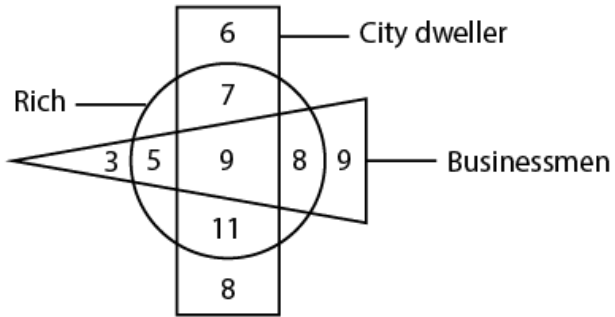
C 39

D 27

Answer: D

Question 23

In the following diagram, the triangle represents 'businessmen'. the circle represents 'rich' and the rectangle represents 'city dwellers'. The numbers in different segments show the number of persons.



How many rich city dwellers are not businessmen?

- A 18
- B 20
- C 14
- D 16

Answer: A

Question 24

'Tired' is related to 'Exhausted' in the same way as 'Sad' is related to '.....'

- A Depressed
- B Regret
- C Emotiona
- D W thdrawn

Answer: A

Question 25

Select the set of numbers that is similar to the following set.
{8, 19, 30}

- A {12, 25, 38}
- B {6, 21, 32}
- C {11, 24, 38}
- D {9, 20, 35}

Answer: A

Question 26

Which number will replace the question mark (?) in the following series?
7, 9, 13, 15, ?, 21, 25

- A 19
- B 20
- C 17
- D 18

Answer: A

Question 27

'Experiment' is related to 'Invention' in the same way as 'Read' is related to '.....'.

- A Evaluation
- B Concentration
- C Learn
- D Invention

Answer: C

Question 28

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.

Dress : Stitch

- A Water : Swim
- B Liquid : Measure
- C Dish : Cook
- D Drive : Road

Answer: C

Question 29

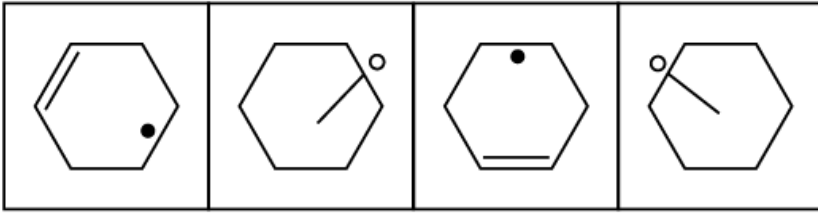
Three of the following four number-pairs are alike in a certain way and one is different, Find the odd one out.

- A 35 : 42
- B 25 : 30
- C 45 : 55
- D 15 : 18

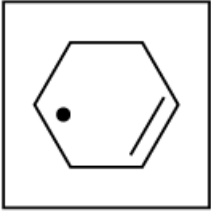
Answer: C

Question 30

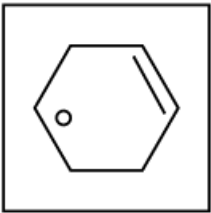
Select the figure that will come next in the following series.



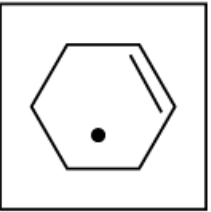
A



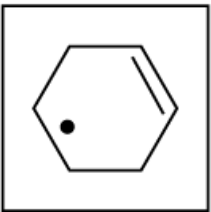
B



C



D



Answer: D

Question 31

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

A 12 : 20

B 42 : 56

C 20 : 30

D 30 : 40

Answer: D

Question 32

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.

Word : Letter

- A Doctor : Medicine
- B House : Building
- C School : Class
- D Father : Son

Answer: C

Question 33

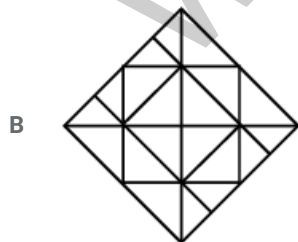
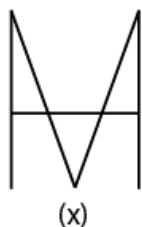
In a code language, PENCIL is written as PNEICL. How will MOTHER be written as in that language?

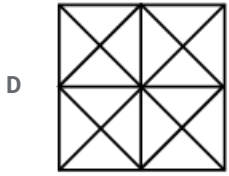
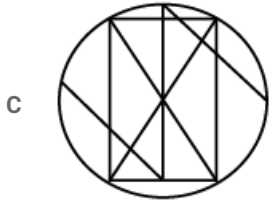
- A MTOREH
- B MHTORE
- C OMHTRE
- D MTOEHR

Answer: D

Question 34

Select the option in which the given figure is embedded.





Answer: A

Question 35

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

- A Conc us on
- B Va ed ct on
- C Term nat on
- D Intern ss on

Answer: D

Question 36

Swati's school bus starts from her house and takes one left turn to reach the hospital. Then, it takes a right turn and covers 5 km. Finally, it takes a left turn to reach her school. On reaching the school, the bus faces southwest. In which direction was the bus facing when it left Swati's house?

- A East
- B No th west
- C South-east
- D North-east

Answer: B

Question 37

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

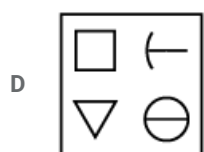
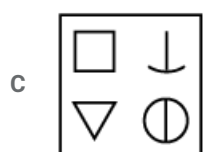
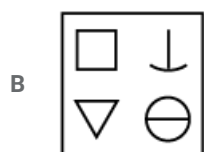
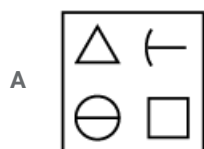
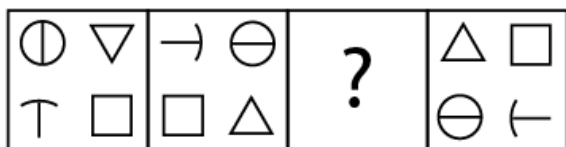
HJLN : ILOR :: DFHJ :

- A EHLO
- B CGJM
- C EHJL
- D EHKN

Answer: D

Question 38

Identify the missing figure in the following series.



Answer: C

Question 39

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

ACFJ : ZXUQ :: ELHK :

A WRSQ

B VOSP

C VUSP

D WOSP

Answer: B

Question 40

Which of the following interchanges of signs and numbers would make the flowing equation correct?

$$18 - 8 \div 12 \times 6 + 10 = 12$$

A \times and $-$, 18 and 6

B \times and \div , 12 and 6

C + and -, 6 and 8

D + and -, 8 and 10

Answer: C

Question 41

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

J, Q, L, O, N, ?, P, K

A K

B M

C I

D L

Answer: B

Question 42

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

A SQOM

B GHIJ

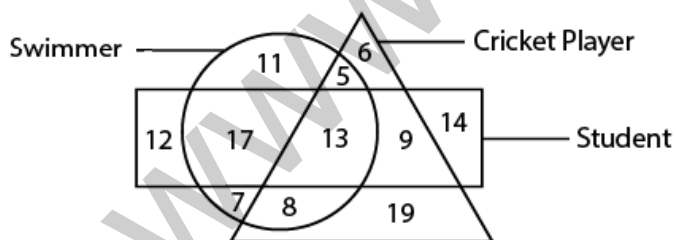
C WUTR

D MS

Answer: C

Question 43

In the following diagram, the triangle represents 'cricket players'. the circle represents 'swimmers' and the rectangle represents 'students'. The numbers in different segments show the number of persons.



How many students are swimmers but not cricket players?

A 13

B 17

C 8

D 18

Answer: B

Question 44

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:

Some males are swimmers.

All swimmers are athletes.

Conclusions:

I. Some athletes are males.

II. No athlete is male.

III. Some athletes are swimmers.

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

Answer: A

Question 45

Which letter-cluster will replace the question mark (?) in the following series?

HKNQ, JIPO, KHQN, MFSL, ?

- A NEKT
- B NETK
- C ODUJ
- D NGRM

Answer: B

Question 46

Select the number-pair in which the two numbers are related in the same way as are the two numbers of the given number pair.

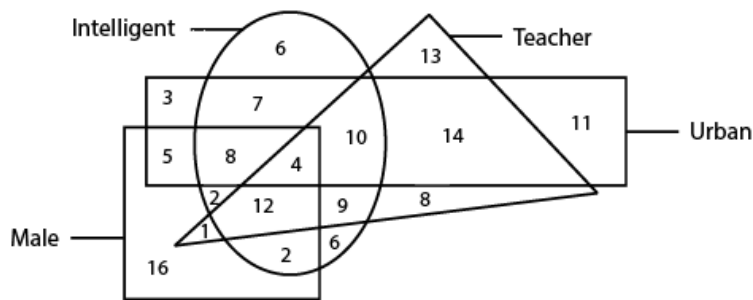
1 : 8

- A 8 : 27
- B 6 : 30
- C 16 : 49
- D 9 : 36

Answer: A

Question 47

In the following diagram, the triangle represents 'teachers'. the circle represents 'intelligent'. the rectangle represents 'urban' and the square represents 'males'. The numbers in different segments show the number of persons.



How many urban intelligent teachers are not male?

- A 10
- B 12
- C 14
- D 4

Answer: A

Question 48

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

$$+ 12 \div 6 \times 8 - 4 = 14$$

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

Answer: D

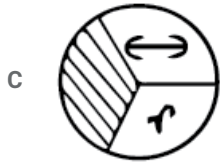
Question 49

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



(x)





Answer: B

Question 50

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

1. Judgment
2. Arrest
3. Prison
4. Court
5. Crime
6. Punishment

- A 5, 4, 2, 1, 6, 3
- B 5, 2, 3, 4, 1, 6
- C 3, 6, 4, 1, 2, 5
- D 5, 2, 4, 1, 6, 3

Answer: D

General knowledge

Instructions

For the following questions answer them individually.

Question 51

The states of celebrated their 47th Statehood Day on 21st January 2019.

- A Uttarakhand, Manipur and Telangana
- B Chhattisgarh, Telangana and Tripura
- C Tripura, Assam and Telangana
- D Tripura, Manipur and Meghalaya

Answer: D

Question 52

Which is the smallest bone in the human body?

- A Incus
- B Stapes
- C Metacarsa
- D Ma eus

Answer: B

Question 53

DNA was first isolated, analysed and recognised as a unique macro—molecule by in 1869.

- A A fred Hershey
- B W am Astbury
- C Fr edr ch M escher
- D Oswa d Avery

Answer: C

Question 54

..... is an inherited blood disorder due to which people suffering from this condition are unable to make 4 haemoglobin.

- A Stroke
- B Tha assem a
- C Bone Marrow fa ure
- D Thrombos s

Answer: B

Question 55

Which of the following elements/chemical compounds has the highest density?

- A Osm um
- B Z nc
- C N cke
- D Mercury

Answer: A

Question 56

Banabhatta was the court poet of which of the following Indian kings?

- A Harshavardhana
- B Pu kes n II
- C Yasovarman
- D Chandra gupta II

Answer: A

Question 57

Which Schedule of the Indian Constitution deals with the disqualification of elected members on the ground of defection?

- A TWe fth
- B E eventh
- C N nth
- D Tenth

Answer: D

Question 58

The is a Jain text containing the biographies of the Jain Tirthankaras. most notably Parshvanath and Mahavira.

- A Uttaradhyayana
- B Ka pa Sutra
- C Mahapurana
- D Ad Purana

Answer: B

Question 59

Sanrakshan Kshmata Mahotsav (SAKSHAM) falls under the aegis of the Government of India.

- A M n stry of Externa Affa rs
- B M n stry of Chem ca s and Fert izers
- C M n stry of Petro eum & Natura Gas
- D M n stry of F nance

Answer: C

Question 60

In January 2019, Prime Minister Narendra Modi inaugurated the Kollam Bypass. Which of the following is NOT true of the bypass?

- A It is 18 km long and has three lanes.
- B It lies on the National Highway-66.
- C Its opening would considerably reduce travel time between Appuzha and Thiruvananthapuram.
- D It is the first National Highway project in the country taken up on a 50:50 Centre-State partnership.

Answer: A

Question 61

The expansion project of Numaligarh Refinery involves setting up a crude oil pipeline from to Numaligarh.

- A Banaun
- B Haldia
- C Paradip
- D Bina

Answer: C

Question 62

The dance is performed by shepherd community of Goa during Navratri.

- A Dhangar
- B Lava
- C Fugd
- D Kokcha

Answer: A

Question 63

An exhibition was held in New Delhi, in January 2019 by the Minority Affairs Ministry to project the talent of Indian artisans.

- A Threads Fashion and Lifestyle
- B Hunar Haat
- C Aadaah
- D Andaaz

Answer: B

Question 64

Pune is set to become the first Indian city to have a traffic robot in 2019. Which of the following statements is NOT true about the traffic police authorities of Pune and their robot named "Roadeo"?

- A Roadeo has a 26-inch LCD display.
- B Roadeo's hands have been engineered to move and show stop signs to vehicles.
- C Roadeo will move around city roads, functioning as a quasi-traffic policeman and cautioning commuters.
- D Roadeo is equipped with a sensor-skid-steering wheels and obstacle-detection sensors.

Answer: A

Question 65

In January 2019, President Ramnath Kovind gave his assent to the 124th constitutional Amendment Bill (which is now the 103rd Amendment Act of the Constitution of India) providing reservation for economically weaker sections from the upper castes.

- A 10%
- B 20%
- C 5%
- D 15%

Answer: A

Question 66

In January 2018, renowned scientist, took charge as the Director of Vikram Sarabhai Space Centre (VSSC).

- A Sam A
- B S. Somanath
- C Jayant Narkar
- D C. N. R. Rao

Answer: B

Question 67

..... became the first Indian Badminton player to win the BWF World Tour Final in December 2018.

- A Aparna Popat
- B Jwala Gutta
- C P. V. Sindhu
- D Saina Nehwal

Answer: C

Question 68

The hypothalamus, a small region of the plays a crucial role in many important functions of the human body.

- A ver

- B bra n
- C k dne y
- D stomach

Answer: B

Question 69

The was awarded the International Gandhi Peace Prize (2016) for its work towards providing mid-day meals to children across India.

- A Akshaya Patra Foundat on
- B Eka Abh yan Trust
- C V vekananda Kendra
- D Su abh Internat ona

Answer: A

Question 70

Weightlifter won India's maiden gold medal at 2018 Youth Olympic Games in the men's 62 kg category in Argentina.

- A Santosh Yadav
- B Jeremy La r nnunga
- C Sanj ta Chanu
- D J tu Ra

Answer: B

Question 71

The first India-ASEAN InnoTech Summit was held in in November 2018.

- A Mumba
- B Ahmedabad
- C Chenna
- D New De h

Answer: D

Question 72

Passer Domesticus is commonly known as

- A Parrot
- B Lark

C Pigeon

D Sparrow

Answer: D

Question 73

..... was awarded the International Gandhi Peace Award (2016) for its contribution towards the improvement of sanitation facilities in India and the emancipation of manual scavengers.

A Eka Abhayan Trust

B Suabhi International

C Vivekananda Kendra

D Akshaya Patra Foundation

Answer: B

Question 74

In June 2017, NASA successfully launched mission to study the interstellar medium, the matter between stars.

A HESS

B FLESS

C BLESS

D CHESS

Answer: D

Question 75

In which year did Independent India win its first Olympic gold medal?

A 1960

B 2008

C 1972

D 1948

Answer: D

Question 76

In January 2019, Union Minister of Petroleum and Natural Gas flagged off Sanrakshan Kshamata Mahotsav (SAKSHAM) vans.

A Dharmendra Pradhan

B Nitin Jairam Gadkar

C DV Sadananda Gowda

D Suresh Prabhu

Answer: A

Question 77

The power of a lens is measured in

A Ampere

B Cande a

C D opter

D Ke v n

Answer: C

Question 78

Which of the following gases turn lime water milky?

A Oxygen

B Nitrogen

C Hydrogen

D Carbon Dioxide

Answer: D

Question 79

The tennis pair of won a gold medal in the Men's Doubles tennis event at the 2018 Asian Games.

A Mahesh Bhupathi and Leander Paes

B Rohan Bopanna and Divyansh Sharan

C Aleksandr Bubk and Denis Yevseyev

D Yuk Bhambhani and Ramanathan Krishnan

Answer: B

Question 80

In January 2019, the Reserve Bank of India initiated two surveys namely, Industrial Outlook Survey (IOS) and

A Services and Trade Outlook Survey (STOS)

B Services Outlook Survey (SOS)

C Services Trade Survey (STS)

D Services and Infrastructure Outlook Survey (SIOS)

Answer: D

Question 81

'The Hindu Young World-Goodbooks Award'2018 in the 'Best Book: Fiction' category was given to for 'Boy No. 32'.

- A Raj v E pe
- B Marnta Na ny
- C Ven ta Coe ho
- D V nayak Verma

Answer: C

Question 82

Shot-putter won a gold medal in the men's shot put event at the 2018 Jakarta-Palembang Asian Games held in Indonesia.

- A Inderj t S ngh
- B Bahadur S ngh Sagoo
- C Om Prakash S ngh
- D Tej nder Pa S ngh Toor

Answer: D

Question 83

Which of the following articles of the India Constitution deals with the Uniform Civil Code?

- A Art c e 46
- B Art c e 44
- C Art c e 45
- D Art c e 43

Answer: B

Question 84

The construction work of the ₹ 500—crore Pagladiya Multipurpose Dam project in Nalbari district of will begin from February 2019.

- A Tr pura
- B Te angana
- C Assam
- D Megha aya

Answer: C

Question 85

In January 2019, US-based Indian poet received the 'Woman's Voice Award' at the Apeejay Kolkata Literary Festival (AKLF) 2019.

- A Sujata Bhatt
- B Meena Alexander
- C Smriti Agarwal
- D Ranjan Murthy

Answer: D

Question 86

The Second Battle of Tarain was fought in the year

- A 1294 AD
- B 1079 AD
- C 1192 AD
- D 1345 AD

Answer: C

Question 87

Manas Tiger Reserve is located in which Indian state?

- A Karnataka
- B Assam
- C Maharashtra
- D Rajasthan

Answer: B

Question 88

'Sakhi centre' or 'One Stop Centre (OSC)' is a centrally sponsored scheme of the Central Government under the Ministry of ____.

- A Women and Child Development
- B Law and Justice
- C Culture
- D Housing and Urban Affairs

Answer: A

Question 89

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

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

Answer: B

Question 90

Who started the Asiatic Society of Bengal in 1784?

- A William Adam
- B William Wordsworth
- C William Jones
- D William Carey

Answer: C

Question 91

Garo Hills lie in state.

- A Assam
- B Meghalaya
- C Nagaland
- D Manipur

Answer: B

Question 92

..... became India's first judo medallist at the Youth Olympics Games held in Argentina in 2018.

- A Kapil Dev
- B Rajwinder Kaur
- C Garima Chaudhary
- D Thangjam Tabab Devi

Answer: D

Question 93

The book 'Ammachi's Amazing Machines' by won 'The Hindu Young World-Goodbooks Award' 2018 in the 'Best Picture Book: Illustration' category at the event.

- A Vinayak Verma

- B Ven ta Coe ho
- C Marnta Na ny
- D Raj v E pe

Answer: D

Question 94

In January 2019, the World Health Organisation released its list of 10 global health threats which demand immediate attention. Which of the following is NOT one of them?

- A HIV
- B Commun cab e d seases
- C Ant m crob a res stance
- D Dengue

Answer: B

Question 95

In November 2018, electronics company CASIO launched the world's first Goods and Services Tax (GST) calculator in India.

- A Japanese
- B UK
- C US
- D Ch nese

Answer: A

Question 96

In August 2018, India rejected Pakistan's objections on its two hydropower projects, Pakal Dul and Lower Kalnai on the river.

- A Chenab
- B Yamuna
- C Kaver
- D Brahmaputra

Answer: A

Question 97

The Drishyakala—Exhibition held at the Red Fort showcased art works from till India's independence.

- A 12th century

- B 16th century
- C 11th century
- D 10th century

Answer: B

Question 98

As of January 2019, the number of high courts in India is

- A 18
- B 30
- C 25
- D 20

Answer: C

Question 99

Who wrote the book "Gulamgiri"?

- A V noba Bhave
- B Jyot ba Phu e
- C Swam Dayanand Saraswat
- D Swam V veکانان

Answer: B

Question 100

The Gurmukhi script was created in the 16th century CE by the second Sikh guru

- A Guru Ram Das
- B Guru Arjan
- C Guru Angad
- D Guru Arnar Das

Answer: C

Quant

Instructions

For the following questions answer them in a few words

Question 101

If a train runs with the speed of 52 km/h, it reaches its destination late by 15 minutes. However, if its speed is 65 km/h, it is late by 5 minutes only. The right time for the train to cover its journey is:

- A 40 minutes
- B 35 minutes
- C 45 minutes
- D 30 minutes

Answer: B

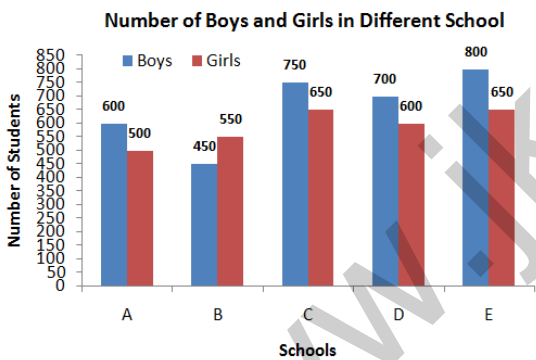
Question 102

A sphere of radius 9 cm is melted and recast into small spheres of radius 2 cm each. How many such spheres can be made?

- A 92
- B 90
- C 93
- D 91

Answer: D

Question 103



In the given bar graph, what is the ratio of the total boys and girls in all schools?

- A 65 : 63
- B 66 : 59
- C 65 : 58
- D 59 : 66

Answer: B

Question 104

In a class of 45 students, 40% are boys and rest are girls. The average weight of the girls is 55 kg and that of boys is 65 kg. What is the average weight (in kg) of the whole class?

- A 60 kg
- B 61 kg
- C 58 kg
- D 59 kg

Answer: D

Question 105

If $(x - 3)^2 + (2x - 5)^3 + (x - 4)^3 = (3x - 9)(2x - 5)(x - 4)$, then what is the value of x ?

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

Answer: D

Question 106

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

- A 5535.36
- B 3152.88
- C 72905.2
- D 67508.5

Answer: A

Question 107

Two pipes A and B can fill a tank in 16 hours and 20 hours respectively. They are opened alternatively for 1 hour each, starting with pipe A first. In how many hours will the empty tank be filled?

- A $17\frac{3}{4}$
- B $17\frac{1}{5}$
- C $17\frac{3}{5}$
- D $17\frac{1}{14}$

Answer: A

Question 108

If the seven digit number $3x6349y$ is divisible by 88, then what will be the value of $(2x + 3y)$?

- A 28
- B 30
- C 32
- D 35

Answer: C

Question 109

One side of a rhombus is 6.5 cm and one of it's diagonal is 12 cm. What is the area of the rhombus?

- A 78 cm^2
- B 15 cm^2
- C 30 cm^2
- D 60 cm^2

Answer: C

Question 110

If $\sec 2x = \operatorname{cosec}(3x - 45^\circ)$, then x is equal to:

- A 27°
- B 40°
- C 45°
- D 35°

Answer: A

Question 111

The efficiencies of A, B and C are in the ratio 5 : 6 : 8. Working together, they can complete a piece of work in 120 hour's. In how many hours will, B alone be able to complete 40% of that work?

- A 152
- B 182.4
- C 167.2
- D 114

Answer: A

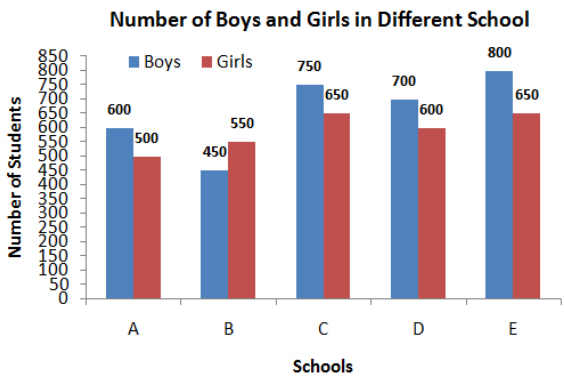
Question 112

The price of sugar has increased by 14%. By what percentage can a person decrease the consumption so that there is an increase in the expenditure by 8% only? (correct to one decimal place)

- A 5.9%
- B 5.5%
- C 5.3%
- D 5.7%

Answer: C

Question 113



In the given bar graph, in which college, the percentage of boys is the highest?

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

Answer: D

Question 114

The value of $\frac{\sin^2 60^\circ \cos^2 30^\circ \sec 35^\circ \sin 55^\circ}{\sec 60^\circ \operatorname{cosec} 30^\circ}$ is equal to:

- A $\frac{1}{3}$
- B $\frac{1}{4}$
- C $\frac{1}{2}$
- D $\frac{1}{8}$

Answer: D

Question 115

The value of $6\frac{1}{5} - [4\frac{1}{2} - \{5 - (\frac{3}{5} + \frac{3}{10} - \frac{7}{15})\}]$ is:

- A 2.1
- B 2.8
- C 2.5
- D 1.8

Answer: A

Question 116

A shopkeeper sold two articles for ₹ 9,879 each. On one, he gained 11% and on the other, he lost 11%. What is the overall percentage gain or loss?

- A 1.21% gain
- B 1.25% gain
- C 1.21% loss
- D 1.25% loss

Answer: C

Question 117

$\frac{63.5 \times 63.5 \times 63.5}{6.35 \times 6.35}$ $\frac{36.5 \times 36.5 \times 36.5}{3.65 \times 3.65}$ is equal to:

- A 100
- B 1,000
- C 1,00,000
- D 10,000

Answer: D

Question 118

From the top of a 120 m high tower, the angle of depression of the top of a pole is 45° and the angle of depression of the foot of the pole is θ , such that $\tan \theta = \frac{3}{2}$, What is the height of the pole?

- A 80 m
- B 40 m
- C 60 m
- D 75 m

Answer: B

Question 119

What is the ratio of mean proportional between 3.6 and 12.1 and third proportional between 2 and 11?

- A 11 : 36
- B 36 : 5
- C 6 : 5
- D 6 : 55

Answer: D

Question 120

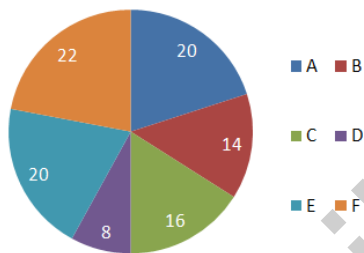
Pipes A and B can fill a tank in 16 hours and 24 hours respectively whereas pipe C can empty the full tank in 40 hours. All three pipes are opened together. but pipe A is closed after 8 hours. After how many hours. the remaining part of tank will be filled?

- A 22
- B 30
- C 28
- D 26

Answer: A

Question 121

Percentage of Employees in different Dept. (Total 450 Employees)



In the given pie-chart, if the female employees in department D is 75%. then how many male employees are in that department?

- A 9
- B 4
- C 5
- D 6

Answer: A

Question 122

A boat can go 10 km downstream and 8 km upstream in 49 minutes. Also it can go 12 km downstream and 4 km upstream in 42 minutes. What is the speed of stream in km/h?

- A 1.5
- B 2.5
- C 2

D 1

Answer: C

Question 123

A cuboid of edges 32 cm, 4 cm and 4 cm is cut to form cubes of edge 4 cm each. What is the sum of total surface areas of all cubes formed?

A 544 cm^2 B 640 cm^2 C 576 cm^2 D 768 cm^2

Answer: D

Question 124

$\frac{17}{30} + [3\frac{1}{5} - \{6^5 - (3\frac{4}{5} \div 9\frac{1}{2})\}]$ is equal to:

A $\frac{1}{5}$ B $\frac{10}{3}$ C $\frac{3}{5}$ D $\frac{11}{3}$

Answer: B

Question 125

Two numbers are in the ratio 6 : 11. If their HCF is 28. then the sum of these two numbers is:

A 392

B 448

C 420

D 476

Answer: D

Question 126

The sides of a triangle are 24 cm, 45 cm and 51 cm. At each of it's vertices, circles of radius 10.5 cm are drawn. What is the area of the triangle, excluding the portion covered by sectors of the circles? ($\pi = \frac{22}{7}$)

A 327.75 cm^2 B 366.75 cm^2

C 464.75 cm^2

D 244.75 cm^2

Answer: B

Question 127

What is the sum of digits of the least number, which when divided by 15, 18 and 42 leaves the same remainder 8 in each case and is also divisible by 13?

A 24

B 26

C 25

D 22

Answer: B

Question 128

If the income of A is 24% less than income of B, then what percentage is B's income is more than that of A?

A $\frac{600}{19} \%$

B $\frac{600}{29} \%$

C $\frac{600}{17} \%$

D $\frac{600}{31} \%$

Answer: A

Question 129

In $\triangle ABC$, $\angle A = 70^\circ$. AB and AC are produced to points D and E respectively. If the bisectors of $\angle CBD$ and $\angle BCE$ meet at the point O , then $\angle BOC$ is equal to:

A 105°

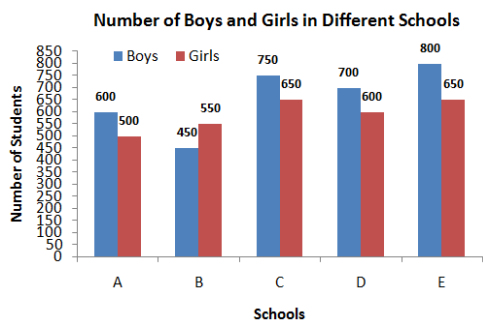
B 70°

C 95°

D 55°

Answer: D

Question 130



In the given bar graph, what is the average number of girls from all schools?

- A 575
- B 595
- C 590
- D 580

Answer: C

Question 131

Let $\triangle ABC \sim \triangle RPQ$ and $\frac{ar(\triangle ABC)}{ar(\triangle PQR)} = \frac{1}{9}$. If $AB = 3$ cm, $BC = 4$ cm and $AC = 5$ cm, then PQ is equal to.

- A 9 cm
- B 15 cm
- C 12 cm
- D 18 cm

Answer: C

Question 132

If $a^3 - b^3 = 3552$ and $(a - b) = 6$, then $(a + b)^2 - ab$ is equal to:

- A 568
- B 618
- C 636
- D 592

Answer: D

Question 133

16 persons working 6 hours a day can complete a work in 10 days. In how many days 24 persons working 8 hours a day will complete 80% of that work?

- A 4

B 3

C 6

D 8

Answer: A

Question 134

A, B and C started a business by investing ₹ 1,37,500 and ₹ 1,62,500 and ₹ 1,87,500 respectively. A is a working partner and gets 20% of the profit as working allowance and remaining is distributed in the proportion of their investment. If the total profit is ₹ 2,19,375, what is the share of C?

A ₹ 64,500

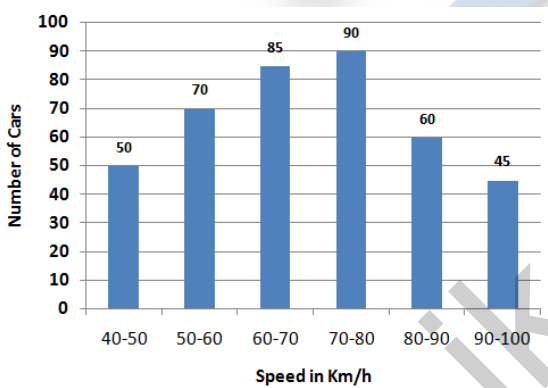
B ₹ 62,700

C ₹ 67,500

D ₹ 88,600

Answer: C

Question 135



In the given histogram, what percentage of cars were running with the speed less than 60 km/h?

A 28%

B 30%

C 25%

D 35%

Answer: B

Question 136

A sum of ₹ 10,000 is invested for 17 months at 8% per annum compounded half yearly. What is the percentage gain at the end of 17 month. nearest to one decimal place?

A 12.0%

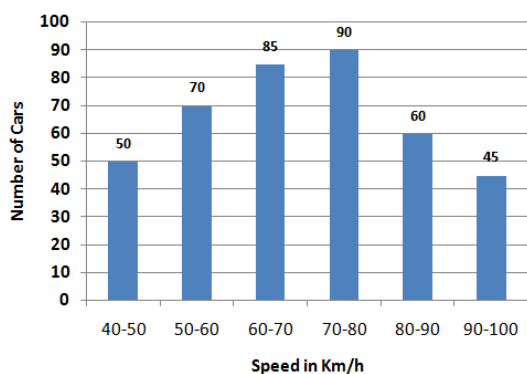
B 12.4%

C 11.8%

D 12.2%

Answer: C

Question 137



In the given histogram. what is the mean speed of cars (in km/h) to nearest Whole number?

A 71

B 70

C 72

D 69

Answer: D

Question 138

The successive discounts of 30%, 25% and 15% is equivalent to a single discount of:

A 54.625%

B 55.375%

C 60.275%

D 60.725%

Answer: B

Question 139

A shopkeeper marks the price of an article such that after giving a discount of 30%, he gains 20%. If the marked price of the article is ₹ 480. what is the cost price of the article?

A ₹ 250

B ₹ 260

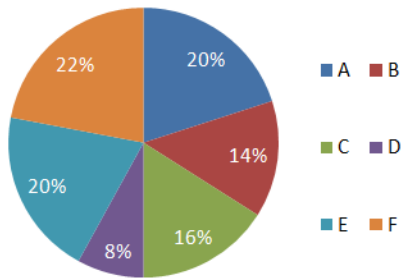
C ₹ 300

D ₹ 280

Answer: D

Question 140

Percentage of Employees in different Dept.(Total 450 Employees)



In the given pie-chart, what is the central angle of the sector representing the number of employees in the department D?

- A 29.6°
- B 28.8°
- C 29.2°
- D 29.8°

Answer: B

Question 141

The average of 20 numbers is 65. The average of the first 9 numbers is 68 and the average of next 8 numbers is 62. If the 18th number is 3 more than 19th number and 9 less than 20th number. then what is the average of 19th and 20th number?

- A 64.5
- B 66
- C 65
- D 65.5

Answer: C

Question 142

The length of shadow of a vertical pole on the ground is 24 m. If the angle of elevation of the sun at that time is θ , such that $\sin \theta = \frac{5}{13}$, then what is the height of the pole?

- A 18 m
- B 12 m
- C 8 m
- D 10 m

Answer: D

Question 143

A sum of ₹ 10,200 is invested partly at 8% per annum and remaining at 6% per annum for 3 years at simple interest. If the total interest is ₹ 2,124, how much money was invested at 6% per annum?

- A ₹ 4,800
- B ₹ 4,900
- C ₹ 5,200
- D ₹ 5,400

Answer: D

Question 144

The radius of a cylinder is increased by 60% and radius of base is decreased by 20%. What is percentage increase in it's volume?

- A 105.6%
- B 105.2%
- C 104.8%
- D 105.8%

Answer: C

Question 145

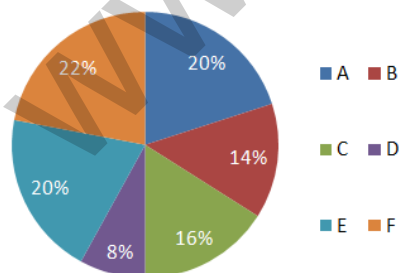
PA and PB are two tangents from a point P outside the circle with centre O . If A and B are points on the circle such that $\angle APB = 110^\circ$, then $\angle OAB$ is equal to:

- A 45°
- B 55°
- C 35°
- D 70°

Answer: B

Question 146

Percentage of Employees in different Dept. (Total 450 Employees)



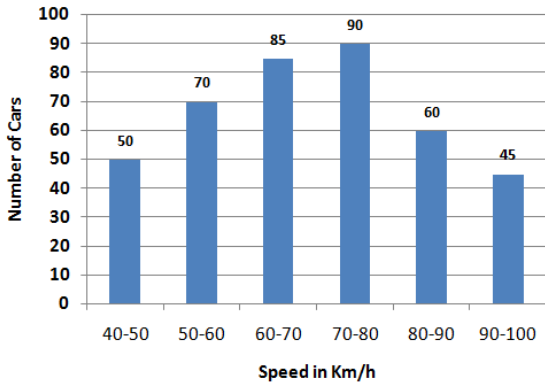
In the given pie-chart. what is the number of employees working in department A?

- A 80
- B 85
- C 90

D 960

Answer: C

Question 147



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

A 60-70

B 80-90

C 70-80

D 50-60

Answer: A

Question 148

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

A 343

B 322

C 385

D 364

Answer: B

Question 149

In an examination, 47% passed in science and 51% failed in mathematics. If 42% failed in both subjects, what percentage passed in both subjects?

A 36%

B 40%

C 38%

D 42%

Answer: C

Question 150

$ABCD$ is a cyclic quadrilateral such that AB is a diameter of the circle circumscribing it and $\angle ADC = 160^\circ$. What is the measure of the $\angle BAC$?

- A 65°
- B 70°
- C 75°
- D 60°

Answer: B

English**Instructions**

For the following questions answer them individually.

Question 151

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

No sooner he had left the house than there was a phone call for him.

- A than there was
- B for him
- C No sooner
- D he had left

Answer: D

Question 152

Select the antonym of the given word.

BOISTEROUS

- A turbulent
- B excited
- C unruly
- D peaceful

Answer: D

Question 153

Select the most appropriate meaning of the given idiom.

to be taken aback

- A to pay no heed
- B to be very excited
- C to be surprised
- D to take something back

Answer: C

Question 154

In the sentence identify the segment which contains the grammatical error.
Although the toys are altogether in the cupboard they are not properly arranged.

- A in the cupboard
- B Although the toys
- C are altogether
- D are not properly arranged

Answer: C

Question 155

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.

A fire broke out in a slum cluster in the capital yesterday for short circuit at the overhanging wires.

- A No improvement
- B due to short circuit on the overhanging wires.
- C due to short circuit in the overhanging wires.
- D for short circuit in the overhanging wires.

Answer: C

Question 156

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.

Australia had to deploy the army to tackle the devastating floods that inundate homes, schools and airports in the country's northeastern part.

- A the devastating floods that were inundating homes
- B the devastating floods that inundated homes
- C No improvement
- D the devastating floods what inundate homes

Answer: B

Question 157

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.

All the professor of this college are provided with free bungalows.

- A Each professor of th s co ege
- B No mprovement
- C A professor of th s co ege
- D A the professors of th s co ege

Answer: D

Question 158

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

Silver, as well as gold, are considered as precious metals.

- A as we as
- B as prec ous meta s.
- C are cons dered
- D S ver

Answer: C

Question 159

Select the synonym of the given word.

AVOID

- A evade
- B face
- C pursue
- D approach

Answer: A

Instructions

Read the fo ow ng passage and answer the quest ons g ven after t.

Passage:

Some 200 km from Leh are the v ages of Dha. Ha u. Garkone and Darch k on both S des of the Indus R ver. nhab ted by the Buddh st Dard Tribes. The v ages are together ca ed the "Aryan va ey". "The word 'Dard' s der ved from a Sanskr t word. 'Daradas . wh ch means peop e who ve on h s des." sa d Vn'end 'a Bangroo. ass stant professor at Ind ra Gandh Nat ona Centre for the Arts (IGNCA). who has extens ve y researched on the r ves. He added peop e of th s reg on are cu tru'a y and ngu st ca y d fferent from those n other parts of Ladakh. Among other researchers who have gone nto the conumrn ty s roots. there s a ne of thought that the "Aryans of Ladakh" or the "Brokpas" m ght have descended f 'om so d ers n A exander s army who had come to the reg on over 2.000 years ago. The Dard Aryans. however. do not docrunent the r h story. Bangroo sa d.

They rear goat and Sheep for m k and meat. and the r fest va s are based on the so ar ca endar. Bangroo v s ted the reg ons nhab ted by

the Dard Aryan community back in 2017. where he helped setup two museums to archive the rich heritage. Bangroos of the view that the traditions go back 5,000 years; those who still follow the original customs worship trees, rivers and mountains. These traditions are mainly dependent on agriculture: the apricots grown here are considered among the best in the world and there are 12 varieties of grapes in the region. Bangroos said grape-wine is very popular in the "Aryan valley".

A number of researchers, as well as the traditions, perceive a threat to the heritage of the community owing to modernisation, migration and religious conversion. The community now numbers about 4,000. Over the last few decades, many of them have embraced Islam or Buddhism. "The community prohibits marriage with outsiders to keep the gene pool intact. Of late, the Dard men have been migrating to other parts of the region in search of better livelihood and many are leaving the tribe." Bangroos said. "The tribe is struggling to find a balance between modernity and traditional values." Also, after the Kargil War, development work in this region has been restricted. Some of the areas of the Aryan valley are out of bounds for outsiders, since it borders Pakistan-occupied Kashmir.

Members of the community said there are only three high schools in the villages and very limited resources for better livelihood – mainly because of the harsh weather and difficult terrain. As such, they have no option but to migrate to cities for higher education and employment. They have demanded that the government set up a tribal hostel and declare the "Aryan valley" a heritage village to boost tourism.

Question 160

The first paragraph of the passage mainly talks about

- A the concerns of Dard Aryans.
- B what the demands of Dard Aryans are.
- C the customs of Dard Aryans.
- D who the Dard Aryans are.

Answer: D

Question 161

What is the main concern of the Dard Aryans?

- A some people are converting the region.
- B many people are migrating from the villages.
- C the heritage is facing a threat.
- D people of the community are becoming modern.

Answer: C

Question 162

What are the demands of the Dard Aryans from the government?

- A to stop migration of people and set up a school
- B to provide livelihood and establish a tribal hostel
- C to set up a tribal hostel and declare the Aryan Valley a heritage Village
- D to boost tourism and take up development work in the valley

Answer: C

Question 163

Which statement indicates best that the Dard Aryans is a community with ancient past?

- A Dard Aryans rear goat and sheep for milk and meat, and their festivals are based on the solar calendar.
- B Some scholars think that they might have descended from the soldiers in Alexander's army who had come about 2000 years ago.
- C The word 'Dard' is derived from a Sanskrit word, 'Daradas', which means people who live on hillsides.
- D Bangroos of the Vedic era that their traditions go back 5,000 years; those who still follow the original customs worship trees, rivers and mountains.

Answer: D

Question 164

Which statement is NOT true according to the passage?

- A Dard Aryans have to migrate to cities for higher education and employment.
- B The valley has a difficult terrain and faces harsh weather conditions.
- C There are only three high schools in the villages and very limited resources for livelihood.
- D The Aryans are culturally and linguistically the same as the other people of Ladakh.

Answer: D

Instructions

For the following questions answer them individually.

Question 165

Select the wrongly spelt word.

- A equivocal
- B equality
- C equation
- D equivocal

Answer: D

Question 166

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

an instrument for measuring time accurately in spite of motion or variations in temperature, humidity, and air pressure.

- A cryptograph
- B chronometer
- C crescograph
- D cardiograph

Answer: B

Question 167

Select the most appropriate word to fill in the blank.

We cannot postpone today's discussion on the issue of security of the colony it is urgent.

- A n case
- B therefore
- C because
- D a though

Answer: C

Question 168

Select the synonym of the given word.

EXECUTE

- A occupy
- B var ety
- C app y
- D mp ement

Answer: D

Question 169

Select the most appropriate meaning of the given idiom.

Take heart

- A to take courage
- B to rebuke
- C to fee gr eved
- D to assess the s tuat on

Answer: A

Question 170

Select the synonym of the given word.

REMEDY

- A cure
- B restore
- C bear ng
- D hea ng

Answer: A

Question 171

Select the most appropriate meaning of the given idiom.
the icing on the cake

- A something that delays action
- B something that makes one happy
- C Something that is essential but difficult to do
- D something that makes a good situation even better

Answer: D

Question 172

Select the most appropriate word to fill in the blank.
The flat is nice but the approach road is too narrow and congested.

- A tse f
- B herse f
- C onese f
- D h mse f

Answer: A

Question 173

Select the wrongly spelt word.

- A v ctory
- B va uab e
- C v a n
- D vaccum

Answer: D

Question 174

Select the most appropriate word for the given group of words.
A system of government in which priests rule in the name of Gods or a god.

- A o garchy
- B ar stocracy
- C p utocracy
- D theocracy

Answer: D

Question 175

Select the wrongly spelt word.

- A r va ry
- B re gn
- C rupee
- D rec eve

Answer: D

Question 176

Select the synonym of the given word.

EXCURSION

- A ho day
- B tour
- C boat ng
- D trekk ng

Answer: B

Question 177

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.

Kumbh Mela, held at Prayagraj at the confluence of the rivers Ganga and Yamuna, is knowing to be the bigger human gathering in the world.

- A s know ng to be the b ggest human gather ng
- B s known to be the b ggest human gather ng
- C No mprovement
- D has been known to be the b gger human gather ng

Answer: B

Question 178

Select the wrongly spelt word.

- A dev s on
- B d vert
- C devot on
- D devout

Answer: A

Question 179

Select the most appropriate word to fill in the blank.

After the end of this lesson you be able to write a paragraph on this topic.

- A can
- B could
- C will
- D must

Answer: C

Question 180

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

a place where fish are kept

- A aviary
- B aquarium
- C herbarium
- D zoo

Answer: B

Question 181

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

A new research study has shown that long before they took up a strict vegetarian diet. the much loved pandas was a meat-eater.

- A that long before
- B was a meat-eater
- C has shown
- D took up

Answer: B

Question 182

Select the wrongly spelt word.

- A provision
- B commission
- C invasion
- D occasion

Answer: B

Question 183

Select the antonym of the given word.

ANTIQUUE

- A trad t ona
- B preh stor c
- C modern
- D convent ona

Answer: C

Question 184

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.

Officials say more than 10 million people take a dip at the confluence of the rivers Ganga and Yamuna in auspicious days for Kumbh Mela.

- A No improvement
- B n ausp c ous days dur ng Kumbh Me a.
- C on ausp c ous days dur ng Kumbh Me a.
- D on ausp c ous days for Kumbh Me a

Answer: C

Question 185

Select the antonym of the given word.

AGILE

- A n mb e
- B etharg c
- C strong
- D confused

Answer: B

Question 186

Select the most appropriate word to fill in the blank.

I saw her your cupboard.

- A to open
- B open ng

C to open ng

D opened

Answer: B

Question 187

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

persons working at the same place

A contemporar es

B homogeneous

C fe ows

D co eagues

Answer: D

Question 188

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

a wooden drum in which beer or oil is stored

A ba e

B cache

C ga e

D barre

Answer: D

Question 189

Select the antonym of the given word.

DETER

A exc te

B prevent

C d ssuade

D encourage

Answer: D

Question 190

Select the synonym of the given word.

NINCOMPOOP

A nnocent

- B bo d
- C c ever
- D foo sh

Answer: D

Instructions

In the fo ow ng passage some words have been de eted. F n the b anks w th the he p of the a ternat ves g ven. Se ect the most appropr ate opt on for each number.

Passag:

The woo y mammoth was a very arge e phant- ke mamma that ved on Earth severa thousand years (1). Some mammoths grew to be four meters (2) and the argest we ghed a most n ne tons. (3) ma e and fema e mammoths had very arge tusks and wa ked (4) every cont nent except Austra a (5) South Amer ca. Sad y, these g ant creatures became ext nct.

Question 191

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

- A before
- B ago
- C past
- D ahead

Answer: B

Question 192

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

- A h gh
- B ow
- C huge
- D of y

Answer: A

Question 193

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

- A Every
- B Each
- C E ther
- D Both

Answer: D

Question 194

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

- A nto
- B on
- C over
- D under

Answer: B

Question 195

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

- A and
- B a so
- C or
- D but

Answer: A

Instructions

For the following questions answer them individually.

Question 196

Select the antonym of the given word.

IMMACULATE

- A flawless
- B systematic
- C untarnished
- D messy

Answer: D

Question 197

Select the most appropriate word to fill in the blank.

She left Mumbai the Rajdhani Express yesterday.

- A for; by
- B to; at
- C in; on

D out; by

Answer: A

Question 198

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

From my hotel I could see that a flock of birds were flying over the lake.

A over the lake

B I could see

C From my hotel

D were flying

Answer: D

Question 199

Select the most appropriate meaning of the given idiom.

get a gold star

A to compliment someone

B to obtain possession of something

C to earn a merit point for doing well

D to get killed in war

Answer: C

Question 200

Select the most appropriate meaning of the given idiom.

Donkey's ears

A having long ears

B a very long time

C once in a while

D instantly

Answer: B



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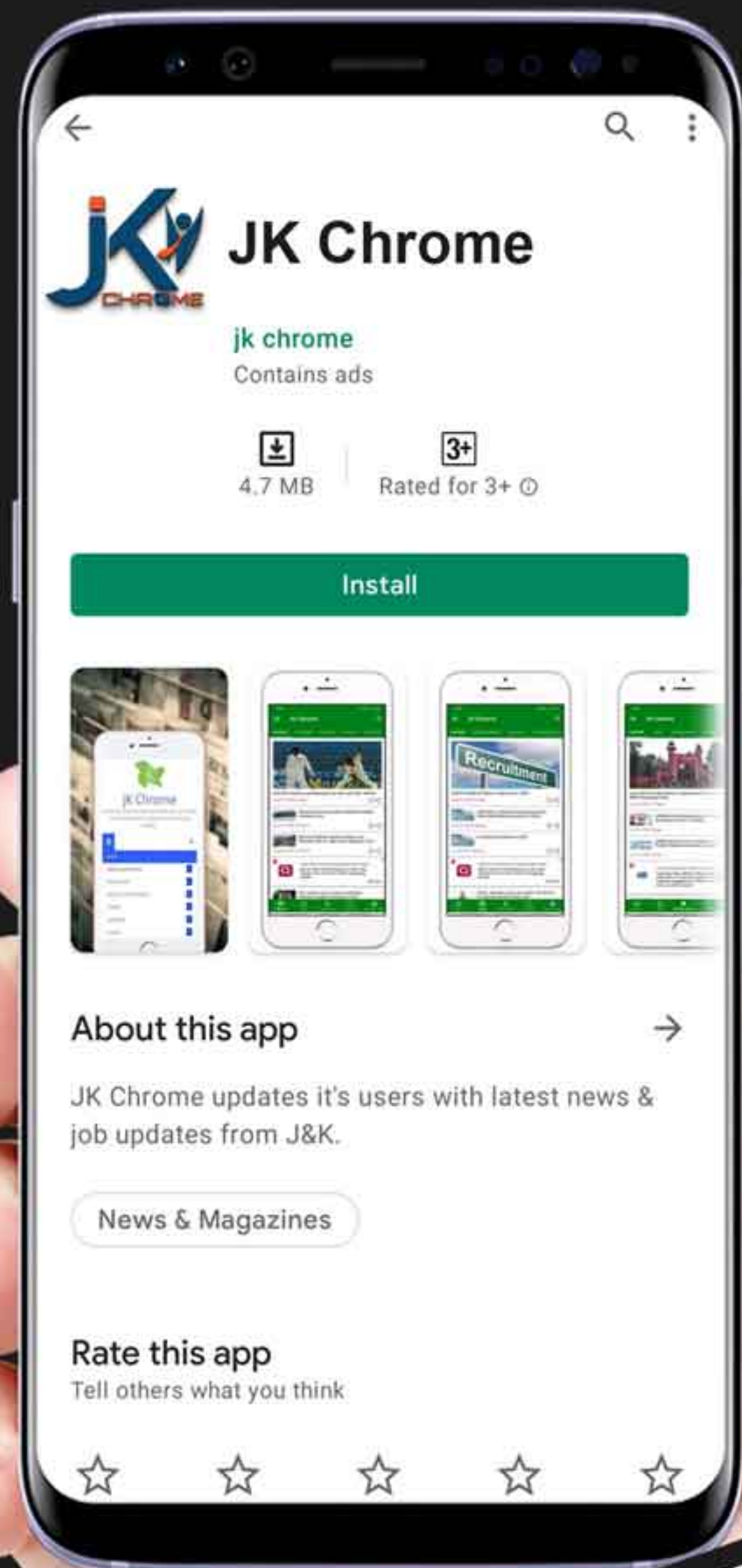
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