

Combined Higher Secondary Level Examination 2020 (Tier-I)

Roll Number	www.qmaths.in
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Exam Time	9:00 AM - 10:00 AM
Subject	Combined Higher Secondary Level Exam 2020

Section : English Language

Q.1 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

- A. As a result, he had a debt of 500 million US dollars at the time of his death.
 B. Unfortunately, he began spending lavishly on anything he desired, not what he actually needed.
 C. Michael Jackson, called the 'King of Pop Music', stayed at the top of his career for many years.
 D. He was respected for his work culture; he would spend long nights at the studio to fix a note correctly in a song.

- Ans ☒ 1. CDBA
☒ 2. DBAC
☒ 3. ADCB
☒ 4. BADC

Question ID : 6549787747

Status : Answered

Chosen Option : 1

Q.2 Select the option that can be used as a one-word substitute for the given group of words.

A new project or business activity involving some risk

- Ans ☒ 1. Experiment
☒ 2. Taboo
☒ 3. Venture (n)
☒ 4. Entrepreneur

Question ID : 6549787758

Status : Answered

Chosen Option : 3

Q.3 Select the INCORRECTLY spelt word.

- Ans ☒ 1. Evidence
☒ 2. Resolute
☒ 3. Discussion
☒ 4. Haultily

Question ID : 6549787756

Status : Answered

Chosen Option : 4

Q.4 Select the most appropriate word to fill in the blank.

Today you may not _____ what you hear, but that is the truth and you have to accept it.

- Ans
- ☒ 1. enjoy
 - ☒ 2. reply
 - ☒ 3. like
 - ☒ 4. answer

Question ID : 6549787761
Status : Answered
Chosen Option : 3

Q.5 Select the most appropriate ANTONYM of the given word.

Accustomed

- Ans
- ☒ 1. Fabulous
 - ☒ 2. Terrific
 - ☒ 3. Unusual
 - ☒ 4. Ordinary

Question ID : 6549787751
Status : Answered
Chosen Option : 4

Q.6 Select the option that expresses the given sentence in direct speech.

The students asked the teacher where they could find the information for their project.

- Ans
- ☒ 1. The teacher said to the students, "Where you can find the information for your project."
 - ☒ 2. The teacher said to the students, "I will tell you where you can find the information for your project."
 - ☒ 3. The students asked the teacher, "Where can we find the information for our project?"
 - ☒ 4. The students said to the teacher, "Where can you find the information for our project?"

Question ID : 6549787738
Status : Answered
Chosen Option : 4

Q.7 Select the most appropriate synonym of the given word.

Forbid

- Ans
- ☒ 1. Close
 - ☒ 2. Encourage
 - ☒ 3. Adieu
 - ☒ 4. Prohibit

Question ID : 6549787759
Status : Answered
Chosen Option : 4

Q.8 Select the INCORRECTLY spelt word.

- Ans
- ☒ 1. Invitation
 - ☒ 2. Irritation
 - ☒ 3. Possessions
 - ☒ 4. Protection

Question ID : 6549786341
Status : Answered
Chosen Option : 3

Q.9 Select the most appropriate word to fill in the blank.

His voice was _____ by the sound of the helicopter.

- Ans
- ☒ 1. drowned
 - ☒ 2. driven
 - ☒ 3. dawned
 - ☒ 4. drawn

Question ID : 6549786348
Status : Answered
Chosen Option : 1

Q.10 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

A probe has been ordered / by the incident / that occurred at the celebrations.

- Ans
- ☒ 1. A probe has been ordered
 - ☒ 2. by the incident
 - ☒ 3. No error
 - ☒ 4. that occurred at the celebrations

Question ID : 6549786326
Status : Answered
Chosen Option : 4

Q.11 Select the option that expresses the given sentence in passive voice.

Sai Kumari gave Akhila a bouquet of lilies on her birthday.

- Ans
- ☒ 1. Akhila is given a bouquet of lilies on her birthday by Sai Kumari.
 - ☒ 2. Akhila was gave a bouquet of lilies on her birthday by Sai Kumari.
 - ☒ 3. Akhila was given a bouquet of lilies on her birthday by Sai Kumari.
 - ☒ 4. Akhila gave a bouquet of lilies on her birthday to Sai Kumari.

Question ID : 6549786323
Status : Answered
Chosen Option : 3

Q.12 Select the most appropriate synonym of the given word.

Despicable

- Ans
- ☒ 1. Commendable
 - ☒ 2. Contemptible
 - ☒ 3. Laudable
 - ☒ 4. Desirable

Question ID : 6549786346

Status : Answered

Chosen Option : 3

Q.13 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Lavanya was happy to see that the tree they had planted the previous year has grow quite taller.

- Ans
- ☒ 1. No substitution required
 - ☒ 2. had grown quite tallest
 - ☒ 3. had grown quite tall
 - ☒ 4. had grow quite taller

Question ID : 6549786335

Status : Answered

Chosen Option : 3

Q.14 Select the most appropriate meaning of the given idiom.

To have eggs on one's face

- Ans
- ☒ 1. To be embarrassed because of one's action
 - ☒ 2. To apply egg yolk on one's face for making it look beautiful
 - ☒ 3. To buy eggs and break them
 - ☒ 4. To throw eggs on a speaker's face

Question ID : 6549787753

Status : Answered

Chosen Option : 1

Q.15 Select the most appropriate ANTONYM of the given word.

Disheveled

- Ans
- ☒ 1. Untidy
 - ☒ 2. Cluttered
 - ☒ 3. Ordered
 - ☒ 4. Unkempt

Question ID : 6549786338

Status : Answered

Chosen Option : 2

Q.16 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The sports day events / will be conducted / from 3:30 p.m. and 5:30 p.m. / on Saturday.

- Ans ☒ 1. from 3:30 p.m. and 5:30 p.m.
☒ 2. The sports day events
☒ 3. on Saturday
☒ 4. will be conducted

Question ID : 6549787739
 Status : Answered
 Chosen Option : 1

Q.17 Select the option that can be used as a one-word substitute for the given group of words.

The branch of physics concerned with the properties of sound

- Ans ☒ 1. Mechanics
☒ 2. Acoustics
☒ 3. Optics
☒ 4. Photonics

Question ID : 6549786343
 Status : Answered
 Chosen Option : 2

Q.18 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

- A. Humans work because they have to; they play because they want to.
 B. The most useful definitions are those that clarify the relationship of sports to play, games and contests.
 C. "Play," wrote the German theorist Carl Diem, "is purposeless activity, for its own sake, the opposite of work."
 D. Sports are part of every culture, past and present, but each culture has its own definition of sports.

- Ans ☒ 1. ABCD
☒ 2. BADC
☒ 3. DCBA
☒ 4. DBCA

Question ID : 6549786334
 Status : Answered
 Chosen Option : 4

Q.19 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

India has identified a nose-based vaccine against Covid-19 that could be a 'game-changer'.

- Ans ☒ 1. No substitution required
☒ 2. a nasal vaccine
☒ 3. an aural vaccine
☒ 4. a sense-based vaccine

Question ID : 6549787750
 Status : Answered
 Chosen Option : 4

Q.20 Select the most appropriate meaning of the given idiom.

Thick as thieves

- Ans
- ☐ 1. Telling lies all the time
 - ☐ 2. Being very dishonest
 - ☐ 3. Never helping anyone
 - ☒ 4. Having a close friendship

Question ID : 6549786340

Status : Answered

Chosen Option : 1

Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

Meghalaya, a hilly state of India, is located in the northeastern part of the country. It is (1)_____ by the Indian state of Assam in the north and northeast and (2) _____ Bangladesh in the south and southwest. The state capital is (3) _____ hill town of Shillong, located in east-central Meghalaya. Meghalaya is an upland area formed by a (4)_____ block of the Deccan plateau. Its summits vary in (5) _____ from 4,000 to 6,000 feet (1,220 to 1,830 metres).

SubQuestion No : 21

Q.21 Select the most appropriate option to fill in blank no.1.

- Ans
- ☐ 1. bind
 - ☒ 2. bounded
 - ☐ 3. bonded
 - ☐ 4. bounding

Question ID : 6549786328

Status : Answered

Chosen Option : 2

Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

Meghalaya, a hilly state of India, is located in the northeastern part of the country. It is (1)_____ by the Indian state of Assam in the north and northeast and (2) _____ Bangladesh in the south and southwest. The state capital is (3) _____ hill town of Shillong, located in east-central Meghalaya. Meghalaya is an upland area formed by a (4)_____ block of the Deccan plateau. Its summits vary in (5) _____ from 4,000 to 6,000 feet (1,220 to 1,830 metres).

SubQuestion No : 22

Q.22 Select the most appropriate option to fill in blank no.2.

- Ans
- ☐ 1. beside
 - ☒ 2. by
 - ☐ 3. with
 - ☐ 4. near

Question ID : 6549786329

Status : Answered

Chosen Option : 1

Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

Meghalaya, a hilly state of India, is located in the northeastern part of the country. It is (1)_____ by the Indian state of Assam in the north and northeast and (2)_____ Bangladesh in the south and southwest. The state capital is (3)_____ hill town of Shillong, located in east-central Meghalaya. Meghalaya is an upland area formed by a (4)_____ block of the Deccan plateau. Its summits vary in (5)_____ from 4,000 to 6,000 feet (1,220 to 1,830 metres).

SubQuestion No : 23

Q.23 Select the most appropriate option to fill in blank no.3.

- Ans
- ☒ 1. a
 - ☒ 2. only
 - ☒ 3. the
 - ☒ 4. one

Question ID : 6549786330

Status : Answered

Chosen Option : 3

Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

Meghalaya, a hilly state of India, is located in the northeastern part of the country. It is (1)_____ by the Indian state of Assam in the north and northeast and (2)_____ Bangladesh in the south and southwest. The state capital is (3)_____ hill town of Shillong, located in east-central Meghalaya. Meghalaya is an upland area formed by a (4)_____ block of the Deccan plateau. Its summits vary in (5)_____ from 4,000 to 6,000 feet (1,220 to 1,830 metres).

SubQuestion No : 24

Q.24 Select the most appropriate option to fill in blank no.4.

- Ans
- ☒ 1. withdrawn
 - ☒ 2. standing
 - ☒ 3. detached
 - ☒ 4. removed

Question ID : 6549786331

Status : Answered

Chosen Option : 2

Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

Meghalaya, a hilly state of India, is located in the northeastern part of the country. It is (1)_____ by the Indian state of Assam in the north and northeast and (2)_____ Bangladesh in the south and southwest. The state capital is (3)_____ hill town of Shillong, located in east-central Meghalaya. Meghalaya is an upland area formed by a (4)_____ block of the Deccan plateau. Its summits vary in (5)_____ from 4,000 to 6,000 feet (1,220 to 1,830 metres).

SubQuestion No : 25

Q.25 Select the most appropriate option to fill in blank no.5.

- Ans
- ☒ 1. distance
 - ☒ 2. elevation
 - ☒ 3. increase
 - ☒ 4. rise

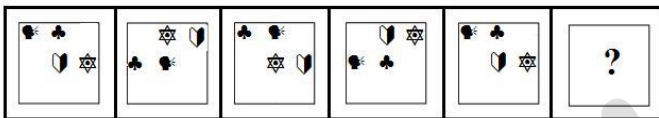
Question ID : 6549786332

Status : **Not Answered**

Chosen Option : --

Section : **General Intelligence**

Q.1 Select the figure from among the given options that can replace the question mark (?) in the following series.



Ans

- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Question ID : 6549787782

Status : **Answered**

Chosen Option : 1

Q.2 Select the option that is related to the third term in the same way as the second term is related to the first term.

OUTSTAY : AOSTTUY :: ROUGHLY : ?

- Ans
- ☒ 1. GUROHLY
 - ☒ 2. ORGULHY
 - ☒ 3. GHLOORUY
 - ☒ 4. GUORYLH

Question ID : 6549786359

Status : Answered

Chosen Option : 3

Q.3 The District Transport Authority has started special bus services for college going students. One bus starts from village P. The number of girls in the bus is one-fourth of the number of boys. In village Q, 20 boys leave the bus at their college stop and ten girls enter the bus. Now the number of boys and girls is equal. How many students enter the bus in the beginning?

- Ans
- ☒ 1. 50
 - ☒ 2. 40
 - ☒ 3. 30
 - ☒ 4. 60

Question ID : 6549787763

Status : Not Answered

Chosen Option : --

Q.4 Select the number from among the given options that can replace the question mark (?) in the following series.

71, 56, 44, 35, 29, ?

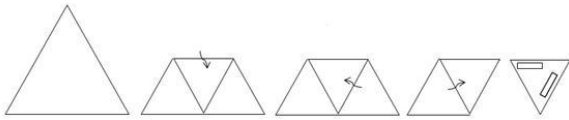
- Ans
- ☒ 1. 26
 - ☒ 2. 29
 - ☒ 3. 20
 - ☒ 4. 23

Question ID : 6549786354

Status : Answered

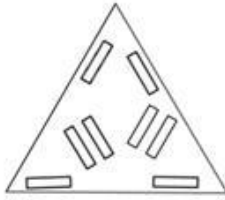
Chosen Option : 1

Q.5 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?

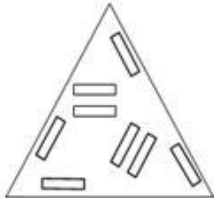


Ans

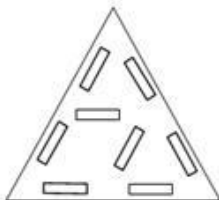
☒ 1.



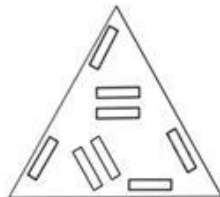
☒ 2.



☒ 3.



☒ 4.



Question ID : 6549786371

Status : Answered

Chosen Option : 2

Q.6 Four numbers have been given, out of which three are alike in some manner and one is different. Select the number that is different.

Ans

☒ 1. 308

☒ 2. 229

☒ 3. 137

☒ 4. 463

Question ID : 6549787769

Status : Answered

Chosen Option : 1

Q.7 Select the correct mirror image of the given figure when the mirror is placed at the right side.



Ans

☒ 1.



☒ 2.



☒ 3.



☒ 4.



Question ID : 6549786372

Status : Answered

Chosen Option : 3

Q.8 Select the option that is related to the third word in the same way as the second word is related to the first word.

Flock : Sheep :: Crowd : ?

Ans

☒ 1. Fly

☒ 2. Fish

☒ 3. Human

☒ 4. Swans

Question ID : 6549786360

Status : Answered

Chosen Option : 3

Q.9 Select the option in which the numbers are related in the same way as are the numbers of the following set.

47 : 58 : 71

Ans

☒ 1. 68 : 80 : 88

☒ 2. 72 : 81 : 90

☒ 3. 76 : 89 : 105

☒ 4. 89 : 98 : 106

Question ID : 6549786352

Status : Answered

Chosen Option : 3

Q.10 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Inhaler
2. Inimitable
3. Inhabitant
4. Ingenuous
5. Inheritance

Ans ☒ 1. 4, 3, 1, 5, 2
☒ 2. 4, 5, 2, 1, 3
☒ 3. 4, 1, 3, 5, 2
☒ 4. 4, 3, 5, 1, 2

Question ID : 6549787770
Status : Answered
Chosen Option : 1

Q.11 Four options have been given, out of which three are alike in some manner and one is different. Select the option that is different.

Ans ☒ 1. Indonesia
☒ 2. Bangladesh
☒ 3. Singapore
☒ 4. Sri Lanka

Question ID : 6549786365
Status : Answered
Chosen Option : 3

Q.12 In a certain code language, EXTREME is written as VCGIVNV. How will INITIAL be written in that language?

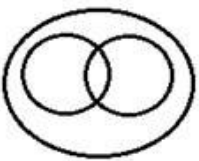
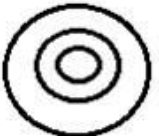
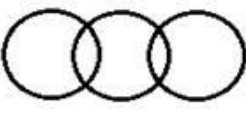
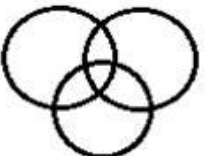
Ans ☒ 1. RM SHRZP
☒ 2. SNRGSAO
☒ 3. RMRGRZO
☒ 4. SMSGSZP

Question ID : 6549786357
Status : Answered
Chosen Option : 3

Q.13 Select the Venn diagram that best represents the relationship between the following classes.

Statisticians, Men, Pathologists

Ans

1. 
2. 
3. 
4. 

Question ID : 6549787787

Status : Answered

Chosen Option : 3

Q.14 Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series.

k j i _ k _ _ i k j i _ k _ _ i

- Ans 1. j k j k j k
2. k i j k i j
3. i j i i j i
4. i k j i k j

Question ID : 6549786967

Status : Answered

Chosen Option : 3

Q.15 Which two digits and signs need to be interchanged so as to balance the given equation?

$$65 + 13 - 119 \div 32 \times 8 = 175$$

- Ans 1. 5 and 8; - and ×
2. 8 and 3; × and +
3. 9 and 8; + and +
4. 2 and 9; + and ×

Question ID : 6549786350

Status : Answered

Chosen Option : 3

Q.16 Find the number of triangles in the given figure.



- Ans
- ☒ 1. 19
 - ☒ 2. 16
 - ☒ 3. 17
 - ☒ 4. 18

Question ID : 6549787783
Status : Answered
Chosen Option : 2

Q.17 Select the option that is related to the third number in the same way as the second number is related to the first number.

18 : 163 :: 24 : ?

- Ans
- ☒ 1. 298
 - ☒ 2. 289
 - ☒ 3. 216
 - ☒ 4. 222

Question ID : 6549787765
Status : Not Answered
Chosen Option : --

Q.18 In a certain code language, VICTORY is coded as 29472435 and HASTY is coded as 278119. How will SUBLIME be coded in that language?

- Ans
- ☒ 1. 1213141585
 - ☒ 2. 1514131285
 - ☒ 3. 2143152558
 - ☒ 4. 2134152558

Question ID : 6549787772
Status : Not Answered
Chosen Option : --

Q.19 Select the option in which the words share the same relationship as that shared by the given pair of words.

Mosquito : Swarm

- Ans
- ☒ 1. Shark : School
 - ☒ 2. Cat : Murder
 - ☒ 3. Monkey : Pride
 - ☒ 4. Snake : Sleuth

Question ID : 6549787777
Status : Answered
Chosen Option : 4

Q.20 Ruchi's husband's grandfather is Abhinav, whose grandson's father is Viyan. If Abhinav and his wife have only one son, how is Viyan related to Ruchi's husband?

- Ans
- ☒ 1. Cousin
 - ☒ 2. Brother-in-law
 - ☒ 3. Father
 - ☒ 4. Uncle

Question ID : 6549789774
Status : Answered
Chosen Option : 3

Q.21 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Some dogs are bulls.
All bulls are donkeys.

Conclusions:

- I. All dogs are donkeys.
- II. Some donkeys are dogs.

- Ans
- ☒ 1. Only conclusion I follows.
 - ☒ 2. Only conclusion II follows.
 - ☒ 3. Neither conclusion I nor II follows.
 - ☒ 4. Both conclusions I and II follow.

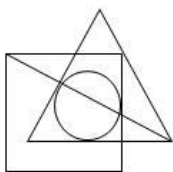
Question ID : 6549786366
Status : Answered
Chosen Option : 2

Q.22 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

- Ans
- ☒ 1. TXBV
 - ☒ 2. QUFZ
 - ☒ 3. KOLF
 - ☒ 4. GKPJ

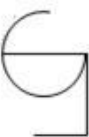
Question ID : 6549787778
Status : Answered
Chosen Option : 4

Q.23 Select the option that is embedded in the given figure (rotation is NOT allowed).



Ans

☒ 1.



☒ 2.



☒ 3.



☒ 4.



Question ID : 6549786370
Status : Answered
Chosen Option : 2

Q.24 Study the given pattern carefully and select the number that can replace the question mark (?) in it.

13 50 8
12 39 5
15 51 ?

Ans

☒ 1. 10

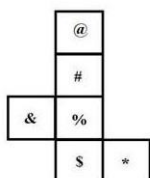
☒ 2. 12

☒ 3. 7

☒ 4. 9

Question ID : 6549787767
Status : Not Answered
Chosen Option : --

Q.25 A cube is made by folding the given sheet. In the cube so formed, what would be the symbol on the opposite side of 'S'?



Ans

☒ 1. &

☒ 2. #

☒ 3. *

☒ 4. @

Question ID : 6549787781
Status : Answered
Chosen Option : 2

Section : Quantitative Aptitude

Q.1 The simple interest on a sum of ₹8,000 at a certain rate per cent per annum for 3 years is ₹3,600. What will be the amount (in ₹) of the same sum after 2 years at the same rate, if the interest is compounded 8-monthly?

- Ans**
- ☐ 1. 10,580
 - ☐ 2. 10,450
 - ☒ 3. 10,648
 - ☐ 4. 11,239

Question ID : 6549787796
Status : Answered
Chosen Option : 3

Q.2 A can complete a work in 20 days, while B can complete the same work in 25 days. Both worked together for 10 days and then C alone completed the remaining work in 10 days. In how many days will A, B and C together complete the same work?

- Ans**
- ☐ 1. 5 days
 - ☒ 2. 10 days
 - ☐ 3. 12 days
 - ☐ 4. 8 days

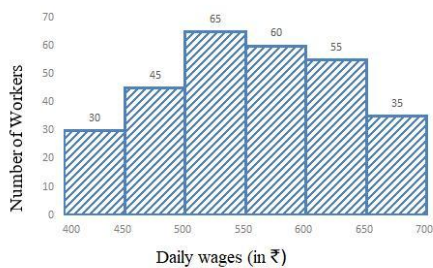
Question ID : 6549786374
Status : Answered
Chosen Option : 2

Q.3 The speed of a train is 78 km/h. It crosses a tunnel in 45 s and overtakes a person walking at a speed of 6 km/h, in the same direction, in 15 s. The length (in m) of the tunnel is:

- Ans**
- ☐ 1. 780
 - ☒ 2. 675
 - ☐ 3. 975
 - ☐ 4. 650

Question ID : 6549787789
Status : Answered
Chosen Option : 2

Q.4 Study the given graph which shows the number of workers with their daily wages and answer the question that follows.



What is the ratio of the total number of workers whose daily wages are ₹450 or above but less than ₹500 to the total number of workers whose daily wages are ₹650 or above?

- Ans**
- ☒ 1. 7 : 9
 - ☒ 2. 5 : 2
 - ☒ 3. 2 : 5
 - ☒ 4. 9 : 7

Question ID : 6549786395
Status : Answered
Chosen Option : 4

Q.5 The radius of a sphere is 9 cm. It is melted and drawn into a wire of radius 0.3 cm. The length of the wire is:

- Ans**
- ☒ 1. 112 m
 - ☒ 2. 118 m
 - ☒ 3. 106 m
 - ☒ 4. 108 m

Question ID : 6549786376
Status : Answered
Chosen Option : 4

Q.6 In $\triangle XYZ$, P is the midpoint of side XZ and Q is a point on side XY such that QZ bisects PY . If $XQ = 24$ cm, then what is the length (in cm) of QY ?

- Ans**
- ☒ 1. 18
 - ☒ 2. 12
 - ☒ 3. 6
 - ☒ 4. 8

Question ID : 6549787799
Status : Answered
Chosen Option : 2

Q.7

If $\cos\theta = \frac{\sqrt{3}}{2}$, then the value of $\frac{2-\sin^2\theta}{1-\cot^2\theta} + (\sec^2\theta + \operatorname{cosec}\theta)$ is:

Ans

✓ 1. $\frac{59}{24}$

✗ 2. $-\frac{25}{12}$

✗ 3. $-\frac{59}{24}$

✗ 4. $\frac{25}{12}$

Question ID : 6549786392

Status : Answered

Chosen Option : 1

Q.8

Two successive discounts each of $x\%$ on the marked price of an article are equal to a single discount of ₹350. If the marked price of the article is ₹800, then the value of x is:

Ans

✗ 1. 22.5%

✗ 2. 27.5%

✗ 3. 20%

✓ 4. 25%

Question ID : 6549786378

Status : Answered

Chosen Option : 2

Q.9

If $\tan x = \cot(48^\circ + 2x)$, and $0^\circ < x < 90^\circ$, then what is the value of x ?

Ans

✗ 1. 12°

✗ 2. 16°

✓ 3. 14°

✗ 4. 21°

Question ID : 6549786394

Status : Answered

Chosen Option : 3

Q.10

In a circle, AB and DC are two chords. When AB and DC are produced, they meet at P. If PC = 2.8 cm, PB = 3.15 cm and AB = 3.85 cm, then CD =?

Ans

✗ 1. 7.875 cm

✓ 2. 5.075 cm

✗ 3. 6.975 cm

✗ 4. 4.175 cm

Question ID : 6549786384

Status : Answered

Chosen Option : 1

Q.11 The value of

$$\frac{\tan 50^\circ + \sec 50^\circ}{\cot 40^\circ + \operatorname{cosec} 40^\circ} + \cos^2 65^\circ + \sin 65^\circ \cos 25^\circ + \tan 30^\circ \text{ is:}$$

- Ans
- ☐ 1. $1 + \sqrt{3}$
- ☒ 2. $\frac{6 + \sqrt{3}}{3}$
- ☐ 3. $\frac{\sqrt{3}(\sqrt{3} + 1)}{3}$
- ☐ 4. $2 + \sqrt{3}$

Question ID : 6549787807

Status : Answered

Chosen Option : 3

Q.12 The average height of a certain number of students in a group is 155.6 cm . If 12 students having an average height of 150.5 cm join the group and 7 students having an average height of 159 cm leave the group, the average height of the students in the group will decrease by 34 mm . What is the number of students, initially, in the group?

- Ans
- ☐ 1. 40
- ☐ 2. 30
- ☒ 3. 20
- ☐ 4. 25

Question ID : 6549787791

Status : Answered

Chosen Option : 2

Q.13 If $x + y + z = 13$, $x^2 + y^2 + z^2 = 91$ and $xz = y^2$, then the difference between z and x is:

- Ans
- ☐ 1. 3
- ☒ 2. 8
- ☐ 3. 5
- ☐ 4. 9

Question ID : 6549786388

Status : Not Answered

Chosen Option : --

Q.14 The value of $\frac{5}{4} \times 2\frac{2}{3} \div \frac{5}{9}$ of $1\frac{1}{5} + \frac{2}{25} \times 4\frac{1}{6} \div \frac{2}{7}$ of $2\frac{1}{3}$ is:

- Ans
- ☐ 1. $3\frac{1}{2}$
- ☐ 2. $2\frac{1}{2}$
- ☐ 3. $1\frac{1}{2}$
- ☒ 4. $5\frac{1}{2}$

Question ID : 6549786391

Status : Answered

Chosen Option : 4

Q.15 If $x^2 + 4y^2 + 3z^2 + \frac{19}{4} = 2\sqrt{3}(x + y + z)$, then the value of $(x - 4y + 3z)$ is:

Ans

☐ 1. $\frac{\sqrt{3}}{2}$

☒ 2. $\sqrt{3}$

☐ 3. $2\sqrt{3}$

☐ 4. $\frac{\sqrt{3}}{3}$

Question ID : 6549786389

Status : Answered

Chosen Option : 2

Q.16 The coefficient of x^3y in $(x - 2y) \times (5x + y)^3$ is:

Ans

☐ 1. 250

☐ 2. -150

☒ 3. -175

☐ 4. 75

Question ID : 6549787801

Status : Answered

Chosen Option : 4

Q.17 A bag contains coins of denomination ₹1, ₹2 and ₹5 in the ratio of 4 : 5 : 8. If the total value of these coins is ₹432, then what is the number of ₹2 coins?

Ans

☐ 1. 50

☐ 2. 30

☐ 3. 60

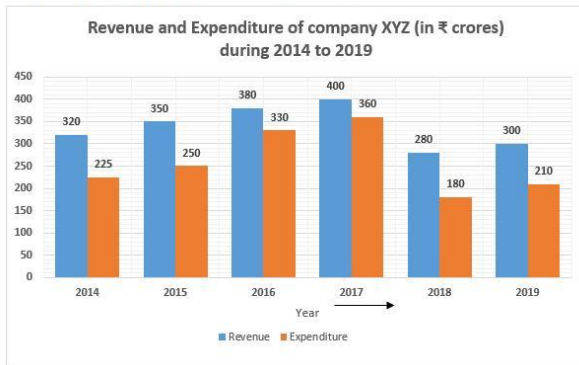
☒ 4. 40

Question ID : 6549787795

Status : Answered

Chosen Option : 3

Q.18 Study the given graph and answer the question that follows.



The total revenue of the company in 2014, 2016 and 2018 is what percentage of the total expenditure in 2015 to 2017 and 2019 (correct to one decimal place)?

- Ans** ☒ 1. 85.2%
☒ 2. 84.3%
☒ 3. 83.4%
☒ 4. 81.6%

Question ID : 6549787812

Status : **Answered**

Chosen Option : 2

Q.19 A person sold an article at a loss of 12%. Had he sold it at a gain of 10.5%, he would have got ₹112.50 more. What is the original selling price (in ₹) of the article?

- Ans** ☒ 1. 440.00
☒ 2. 552.50
☒ 3. 500.00
☒ 4. 560.00

Question ID : 6549786380

Status : **Answered**

Chosen Option : 3

Q.20 The price of a commodity increases by 28%. However, the expenditure on it increases by 12%. What is the percentage increase or decrease in its consumption?

- Ans** ☒ 1. 12.5% Increase
☒ 2. 16% Decrease
☒ 3. 16% Increase
☒ 4. 12.5% Decrease

Question ID : 6549787793

Status : **Answered**

Chosen Option : 2

Q.21 In an isosceles triangle ABC, $AB = AC$ and AD is perpendicular to BC. If $AD = 12$ cm and the perimeter of $\triangle ABC$ is 36 cm, then the length of BC (in cm) is:

- Ans
- ☒ 1. 12
 - ☒ 2. 5
 - ☒ 3. 13
 - ☒ 4. 10

Question ID : 6549786386
Status : Answered
Chosen Option : 4

Q.22 A chord PQ of a circle C_1 of radius 9.25 cm touches another circle C_2 that is concentric to C_1 , and the radius of C_2 is 3 cm. What is the length (in cm) of PQ ?

- Ans
- ☒ 1. 19.5
 - ☒ 2. 12
 - ☒ 3. 15
 - ☒ 4. 17.5

Question ID : 6549787797
Status : Answered
Chosen Option : 4

Q.23 The pie chart shows the money spent by Aditya through credit cards of different banks. The total money spent by him through credit cards in a year is ₹3,60,000.



How much more money was spent through Card C as compared to Card D?

- Ans
- ☒ 1. ₹1,80,000
 - ☒ 2. ₹2,000
 - ☒ 3. ₹40,000
 - ☒ 4. ₹20,000

Question ID : 6549788113
Status : Answered
Chosen Option : 4

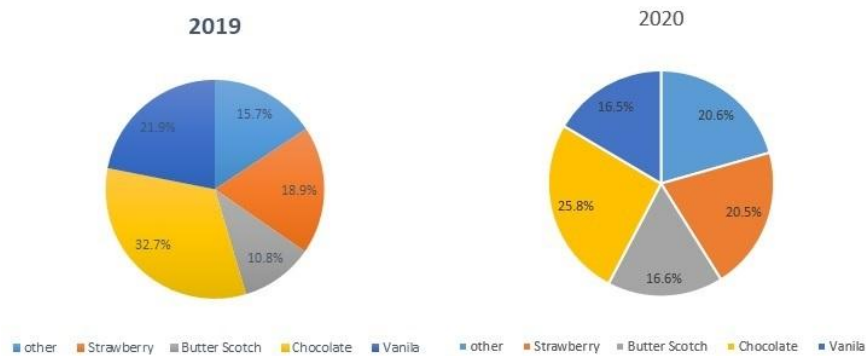
Q.24 If the five-digit number $672xy$ is divisible by 3, 7 and 11, then what is the value of $(6x + 5y)$?

- Ans
- ☒ 1. 17
 - ☒ 2. 24
 - ☒ 3. 23
 - ☒ 4. 16

Question ID : 6549787804
Status : Answered
Chosen Option : 2

Q.25 Study the given pie-charts and answer the question that follows.

The pie charts represent the popularity of ice-cream flavours among families in the years 2019 and 2020.



If 1% increase resulted in annual additional sales of ₹10,000, then how much (in ₹), did the combined Strawberry, other and Butterscotch sales increase from 2019 to 2020?

- Ans**
- ☒ 1. 2,13,000
 - ☒ 2. 3,12,000
 - ☒ 3. 1,23,000
 - ☒ 4. 1,32,000

Question ID : 6549787002
Status : Not Answered
Chosen Option : --

Section : General Awareness

Q.1 Which of the following is a vector quantity?

- Ans**
- ☒ 1. Electric field
 - ☒ 2. Electric current
 - ☒ 3. Electric charge
 - ☒ 4. Electric flux

Question ID : 6549786410
Status : Answered
Chosen Option : 4

Q.2 Which country ranked first in the 'Human Development Report 2020' released by the United Nations Development Programme?

- Ans**
- ☒ 1. Switzerland
 - ☒ 2. Norway
 - ☒ 3. Hong Kong
 - ☒ 4. Germany

Question ID : 6549786405
Status : Answered
Chosen Option : 1

Q.3 Who among the following sportsmen is the brand ambassador of SBOTOP, which is a global online betting platform?

- Ans
- ☐ 1. Sushil Kumar
 - ☐ 2. Rohit Sharma
 - ☐ 3. Bajrang Punia
 - ☒ 4. Dwayne Bravo

Question ID : 6549787835
Status : Answered
Chosen Option : 4

Q.4 Who among the following persons was elected, unopposed, as the President of Hockey India in November 2020?

- Ans
- ☒ 1. Gyanendro Ningombam
 - ☐ 2. David John
 - ☐ 3. Mohd Mushtaque Ahmad
 - ☐ 4. Harendra Singh

Question ID : 6549786422
Status : Answered
Chosen Option : 1

Q.5 Which of the following parts of the body/glands maintains the body temperature?

- Ans
- ☐ 1. Adrenal
 - ☒ 2. Hypothalamus
 - ☐ 3. Pituitary
 - ☐ 4. Thyroid

Question ID : 6549787823
Status : Answered
Chosen Option : 2

Q.6 Who among the following persons was awarded the Padma Shri for social work in 2019?

- Ans
- ☒ 1. Devarapalli Prakash Rao
 - ☐ 2. Anup Ranjan Pandey
 - ☐ 3. Ramaswami Venkataswami
 - ☐ 4. Narsingh Dev Jamwal

Question ID : 6549786417
Status : Answered
Chosen Option : 2

Q.7 According to the Constitution of India a Judge of the Supreme Court cannot be removed from office except by an order of the _____.

- Ans
- ☐ 1. Vice President
 - ☐ 2. Prime Minister
 - ☐ 3. Attorney General
 - ☒ 4. President

Question ID : 6549787833
Status : Answered
Chosen Option : 4

Q.8 Kisan Fasal Rahat Yojana, which will replace (PMFBY) Pradhan Mantri Fasal Bima Yojna, has been launched by which of the following states government in December 2020?

- Ans
- ☒ 1. Punjab
 - ☒ 2. Jharkhand
 - ☒ 3. Andhra Pradesh
 - ☒ 4. Chhattisgarh

Question ID : 6549787818
Status : Answered
Chosen Option : 2

Q.9 In which of the following years did the Prime Minister of India, Narendra Modi, launch Atal Pension Yojana?

- Ans
- ☒ 1. 2020
 - ☒ 2. 2018
 - ☒ 3. 2014
 - ☒ 4. 2015

Question ID : 6549786407
Status : Answered
Chosen Option : 2

Q.10 Who was appointed as the first Surveyor General of India in 1815?

- Ans
- ☒ 1. Henry Walpole
 - ☒ 2. Colin Mackenzie
 - ☒ 3. John Hodgson
 - ☒ 4. Thomas Hickey

Question ID : 6549786415
Status : Not Answered
Chosen Option : --

Q.11 Dandeli Wildlife Sanctuary is located in which of the following states?

- Ans
- ☒ 1. Jharkhand
 - ☒ 2. Karnataka
 - ☒ 3. Sikkim
 - ☒ 4. Kerala

Question ID : 6549787827
Status : Not Answered
Chosen Option : --

Q.12 Raja Parba is a unique festival celebrating the onset of monsoon and the earth's womanhood. It is celebrated in which of the following states?

- Ans
- ☒ 1. Uttar Pradesh
 - ☒ 2. Odisha
 - ☒ 3. Meghalaya
 - ☒ 4. Bihar

Question ID : 6549787815
Status : Answered
Chosen Option : 2

Q.13 Which of the following is a salt-water lake?

- Ans
- ☒ 1. Kolleru
 - ☐ 2. Pangong Tso
 - ☐ 3. Nainital
 - ☐ 4. Loktak

Question ID : 6549786411
Status : Answered
Chosen Option : 1

Q.14 Where is Mount Diavolo, an important mountain peak in the Andaman and Nicobar Islands, located?

- Ans
- ☒ 1. Middle Andaman
 - ☐ 2. North Andaman
 - ☐ 3. South Andaman
 - ☐ 4. Great Nicobar

Question ID : 6549786412
Status : Answered
Chosen Option : 3

Q.15 Which of the following hormone is secreted by brain that helps to regulate sleep-wake cycles?

- Ans
- ☐ 1. Insulin
 - ☒ 2. Melatonin
 - ☐ 3. Aldosterone
 - ☐ 4. Oxytoxin

Question ID : 6549786408
Status : Answered
Chosen Option : 3

Q.16 In which of the following districts was Telangana's first rescue and rehabilitation centre for monkeys, launched in December 2020?

- Ans
- ☐ 1. Mulugu
 - ☐ 2. Adilabad
 - ☒ 3. Nirmal
 - ☐ 4. Narayanpet

Question ID : 6549787817
Status : Not Answered
Chosen Option : --

Q.17 _____'s foster mother Mahapajapati Gotami was the first woman to be ordained as a bhikkhuni.

- Ans
- ☐ 1. Ashoka
 - ☐ 2. Arjuna
 - ☒ 3. Buddha
 - ☐ 4. Bindusara

Question ID : 6549787830
Status : Answered
Chosen Option : 3

Q.18 Ustad Iqbal Ahmed Khan, a recipient of the Sangeet Natak Academy Award, belongs to the _____ Gharana.

- Ans
- ☒ 1. Gwalior
 - ☒ 2. Jaipur-Atrauli
 - ☒ 3. Agra
 - ☒ 4. Dilli

Question ID : 6549786402
Status : Answered
Chosen Option : 1

Q.19 In which year did the Central Government of India appoint the States Reorganisation Commission?

- Ans
- ☒ 1. 1951
 - ☒ 2. 1958
 - ☒ 3. 1953
 - ☒ 4. 1950

Question ID : 6549786420
Status : Answered
Chosen Option : 1

Q.20 Shanti Swarup Bhatnagar Prize is associated with which of the following disciplines?

- Ans
- ☒ 1. Literature
 - ☒ 2. Science and Technology
 - ☒ 3. Sports
 - ☒ 4. Music

Question ID : 6549787832
Status : Answered
Chosen Option : 2

Q.21 Who among the following was the first Indian Governor of the Reserve Bank of India?

- Ans
- ☒ 1. CD Deshmukh
 - ☒ 2. Liaquat Ali Khan
 - ☒ 3. Morarji Desai
 - ☒ 4. KC Neogy

Question ID : 6549787820
Status : Answered
Chosen Option : 1

Q.22 In which of the following North Eastern states is the first ever specialised 'Ginger' Processing Plant being revived in December 2020?

- Ans
- ☒ 1. Mizoram
 - ☒ 2. Assam
 - ☒ 3. Meghalaya
 - ☒ 4. Sikkim

Question ID : 6549787828
Status : Answered
Chosen Option : 1

Q.23 Which of the following is one of the file formats used for web graphics?

- Ans
- ☒ 1. .exe
 - ☒ 2. .txt
 - ☒ 3. .gif
 - ☒ 4. .docx

Question ID : 6549786400
Status : Answered
Chosen Option : 3

Q.24 FIFA World Cup 2022 venue, Ahmad Bin Ali Stadium, which was built by Indian construction giant Larsen & Turbo is located in which of the following countries?

- Ans
- ☒ 1. Bahrain
 - ☒ 2. Saudi Arabia
 - ☒ 3. Qatar
 - ☒ 4. Oman

Question ID : 6549787837
Status : Answered
Chosen Option : 3

Q.25 _____ is an advanced discipline that teaches students how to analyse and find patterns in large amounts of data.

- Ans
- ☒ 1. Data science
 - ☒ 2. Computer science
 - ☒ 3. Software development
 - ☒ 4. Computer programming

Question ID : 6549787813
Status : Answered
Chosen Option : 1