Combined Higher Secondary Level Examination 2020 (Tier-I)

Roll Number	www.qmaths.in
Candidate Name	www.qmaths.in
Venue Name	iON Digital Zone iDZ Kalyani
Exam Date	09/08/2021
Exam Time	12:00 PM - 1:00 PM
Subject	Combined Higher Secondary Level Exam 2020

Section : **English Language**

Q.1 **Select the most appropriate word to fill in the blank.**

The kite was stuck so high on the tree that it was _____ the reach of the boys.

Ans　✖ 1. below

　✖ 2. beneath

　✔ 3. beyond

　✖ 4. beside

Question ID : **6549787155**
Status : **Answered**
Chosen Option : **3**

Q.2 **Examine the four jumbled sentences. Out of the given options, pick the one that gives their correct order.**

A. They can travel to the airport by personal vehicle or registered cabs only.
B. Finally, all passengers are advised to strictly follow social distancing markers.
C. According to the Government guidelines, air travel is declared open from May 2020 for passengers.
D. Once there, they can walk in through the Entry Gates, which shall be kept open.

Ans　✖ 1. BCAD

　✔ 2. CADB

　✖ 3. ACBD

　✖ 4. DCAB

Question ID : **6549789162**
Status : **Answered**
Chosen Option : **2**

Q.3 **Select the INCORRECTLY spelt word.**

Ans　✔ 1. Conglomarate

　✖ 2. Business

　✖ 3. Multinational

　✖ 4. Corporation

Question ID : **6549787150**
Status : **Answered**
Chosen Option : **1**

Q.4 **Select the option that will improve the underlined segment in the given sentence. In case no improvement is needed, select 'No improvement'**

According to J Krishnamurti, education is not about having a career but about being able to look, <u>observation</u> and listen.

Ans ✖ 1. No improvement

✔ 2. observe

✖ 3. observer

✖ 4. observant

Question ID : **6549789163**
Status : **Answered**
Chosen Option : **2**

Q.5 **Select the most appropriate meaning of the given idiom.**

Poke one's nose

Ans ✖ 1. Do unhygienic things

✖ 2. Tease or irritate

✖ 3. Not be careful about one's health

✔ 4. Interfere or meddle

Question ID : **6549787147**
Status : **Answered**
Chosen Option : **2**

Q.6 **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.**

She managed the company / so well that it is made / a huge profit that year.

Ans ✔ 1. so well that it is made

✖ 2. She managed the company

✖ 3. No error

✖ 4. a huge profit that year

Question ID : **6549787133**
Status : **Answered**
Chosen Option : **1**

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

CLEAN

Ans ✔ 1. honest

✖ 2. tall

✖ 3. talkative

✖ 4. shy

Question ID : **6549789174**
Status : **Answered**
Chosen Option : **1**

Q.8 Select the most appropriate meaning of the given idiom.

A fire in someone's belly

Ans   ❌ 1. one who is rich and powerful and exploits the poor

❌ 2. one who continues to work without wanting a reward

✔️ 3. one who is energetic and enthusiastic about something

❌ 4. one who comes from a middle class background

Question ID : **6549789168**

Status : **Answered**

Chosen Option : **4**

Q.9 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'.

A heavy fine <u>will be inflicted with them</u> if they do not pay the taxes in time.

Ans   ❌ 1. will be inflicted of them

✔️ 2. will be inflicted on them

❌ 3. No substitution required

❌ 4. will be inflicted for them

Question ID : **6549787144**

Status : **Answered**

Chosen Option : **2**

Q.10 Select the most appropriate synonym of the given word.

Allege

Ans   ❌ 1. Soothe

✔️ 2. Charge

❌ 3. Placate

❌ 4. Appease

Question ID : **6549787153**

Status : **Answered**

Chosen Option : **2**

Q.11 Select the most appropriate word to fill in the blank.

A good teacher is the one who can explain the most complex subjects in a _____ way.

Ans   ❌ 1. lengthy

✔️ 2. straightforward

❌ 3. roundabout

❌ 4. distracted

Question ID : **6549789176**

Status : **Answered**

Chosen Option : **2**

Q.12 Select the option that expresses the given sentence in direct speech.

The plumber told Ranjit that he had fixed the leaking tap.

Ans ✗ 1. The plumber told Ranjit, "Had he fixed the leaking tap?"

✓ 2. The plumber said to Ranjit, "I have fixed the leaking tap."

✗ 3. The plumber said to Ranjit, "You had fix the leaking tap."

✗ 4. The plumber told to Ranjit, "He had fixed the leaking tap."

> Question ID : **6549787132**
>
> Status : **Answered**
>
> Chosen Option : **2**

Q.13 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. That is why they are considered the best indoor plants to keep at homes and offices.
B. The indoor bonsai plants enhance the aesthetic appeal of the space and offer multiple health and psychological benefits.
C. Bonsai is an important part of Japanese culture dating back to the 14th century.
D. It is the art of cultivating small trees within a container that take the shape and scale of full-size trees.

Ans ✗ 1. DCBA

✗ 2. ABCD

✗ 3. CBAD

✓ 4. CDBA

> Question ID : **6549787141**
>
> Status : **Answered**
>
> Chosen Option : **4**

Q.14 The following sentence has been split into four segments. Identify the segment which contains a grammatical error.

He will be leaving / home at 8 a.m. / to beating / the office rush hour.

Ans ✗ 1. the office rush hour

✗ 2. He will be leaving

✓ 3. to beating

✗ 4. home at 8 a.m.

> Question ID : **6549789154**
>
> Status : **Answered**
>
> Chosen Option : **3**

Q.15 Select the option that can be used as a one-word substitute for the given group of words.

The nest of a squirrel, typically in the form of a mass of twigs in a tree

Ans ✔ 1. Drey

✘ 2. Burrow

✘ 3. Hole

✘ 4. Lair

Question ID : **6549787152**

Status : **Answered**

Chosen Option : **1**

Q.16 Select the word which means the same as the group of words given.

A sentimental longing for a time in the past

Ans ✔ 1. nostalgia

✘ 2. sepia

✘ 3. myopia

✘ 4. dystopia

Question ID : **6549789171**

Status : **Answered**

Chosen Option : **1**

Q.17 Select the INCORRECTLY spelt word.

Ans ✘ 1. condemnation

✔ 2. conscentious

✘ 3. spurious

✘ 4. defamation

Question ID : **6549789169**

Status : **Answered**

Chosen Option : **4**

Q.18 Select the correct passive form of the given sentence.

How much will they pay you?

Ans ✔ 1. How much will you be paid by them?

✘ 2. They will have paid you how much?

✘ 3. How much will they be paying?

✘ 4. Payment will be done by them?

Question ID : **6549789151**

Status : **Answered**

Chosen Option : **1**

Toppers Choice: "Blackbook of English Vocabulary" and "Blackbook of General Awareness".

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8/20/2021, 8:05 PM

Q.19 Select the most appropriate ANTONYM of the given word.

Drab

Ans ✗ 1. Dry

✗ 2. Tiring

✓ 3. Bright

✗ 4. Boring

Question ID : **6549787145**

Status : **Answered**

Chosen Option : **1**

Q.20 Select the most appropriate ANTONYM of the given word.

DISJOINTED

Ans ✗ 1. sharp

✗ 2. abrupt

✗ 3. soft

✓ 4. connected

Question ID : **6549789166**

Status : **Answered**

Chosen Option : **4**

Comprehension:

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

According to Harari, a leading thinker, we are all busy (1) _____ a fantasy self online. It is the age of Facebook and Instagram, wherein (2) _____ are busy creating perfect stories about ourselves. For example, pictures (3) _____ perfect holidays never show the stress of traffic snarls and a host of (4) _____ problems faced. We soon begin to believe in this perfect online self to be (5) _____ real one.

SubQuestion No : 21

Q.21 Select the most appropriate option for blank No. 1.

Ans ✗ 1. creative

✓ 2. creating

✗ 3. creation

✗ 4. creates

Question ID : **6549789156**

Status : **Answered**

Chosen Option : **2**

Comprehension:

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

According to Harari, a leading thinker, we are all busy (1) _____ a fantasy self online. It is the age of Facebook and Instagram, wherein (2) _____ are busy creating perfect stories about ourselves. For example, pictures (3) _____ perfect holidays never show the stress of traffic snarls and a host of (4) _____ problems faced. We soon begin to believe in this perfect online self to be (5) _____ real one.

SubQuestion No : 22

Q.22 Select the most appropriate option for blank No. 2.

Ans ✗ 1. ours

✗ 2. each

✔ 3. we

✗ 4. us

Question ID : **6549789157**

Status : **Answered**

Chosen Option : **3**

Comprehension:

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

According to Harari, a leading thinker, we are all busy (1) _____ a fantasy self online. It is the age of Facebook and Instagram, wherein (2) _____ are busy creating perfect stories about ourselves. For example, pictures (3) _____ perfect holidays never show the stress of traffic snarls and a host of (4) _____ problems faced. We soon begin to believe in this perfect online self to be (5) _____ real one.

SubQuestion No : 23

Q.23 Select the most appropriate option for blank No. 3.

Ans ✔ 1. of

✗ 2. In

✗ 3. from

✗ 4. on

Question ID : **6549789158**

Status : **Answered**

Chosen Option : **1**

Comprehension:

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

According to Harari, a leading thinker, we are all busy (1) _____ a fantasy self online. It is the age of Facebook and Instagram, wherein (2) _____ are busy creating perfect stories about ourselves. For example, pictures (3) _____ perfect holidays never show the stress of traffic snarls and a host of (4) _____ problems faced. We soon begin to believe in this perfect online self to be (5) _____ real one.

SubQuestion No : 24

Q.24 Select the most appropriate option for blank No. 4.

Ans   ✖ 1. few

      ✖ 2. another

      ✖ 3. same

      ✔ 4. other

> Question ID : **6549789159**
> Status : **Answered**
> Chosen Option : **4**

Comprehension:

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

According to Harari, a leading thinker, we are all busy (1) _____ a fantasy self online. It is the age of Facebook and Instagram, wherein (2) _____ are busy creating perfect stories about ourselves. For example, pictures (3) _____ perfect holidays never show the stress of traffic snarls and a host of (4) _____ problems faced. We soon begin to believe in this perfect online self to be (5) _____ real one.

SubQuestion No : 25

Q.25 Select the most appropriate option for blank No. 5.

Ans   ✖ 1. a

      ✔ 2. the

      ✖ 3. one

      ✖ 4. an

> Question ID : **6549789160**
> Status : **Answered**
> Chosen Option : **2**

Section : **General Intelligence**

Q.1 Select the option in which the numbers are related in the same way as are the numbers of the following set.

{6, 15, 27}

Ans   ✔ 1. {4, 10, 18}

      ✖ 2. {8, 24, 34}

      ✖ 3. {12, 32, 54}

      ✖ 4. {14, 38, 57}

> Question ID : **6549789180**
> Status : **Answered**
> Chosen Option : **1**

Q.2 Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series.

a c _ d a _ d d a _ _ d a c _ d

Ans ✓ 1. d c c d d

✗ 2. a c d c a

✗ 3. d a c c d

✗ 4. c c d a d

Question ID : **6549786361**

Status : **Answered**

Chosen Option : **1**

Q.3 In a certain code language, CHECK is written as 6165622 and SURGE is written as 392136145. How will PRIEST be written as in that language?

Ans ✓ 1. 3236953840

✗ 2. 1618953840

✗ 3. 3236185384

✗ 4. 3436953640

Question ID : **6549787166**

Status : **Answered**

Chosen Option : **1**

Q.4 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?
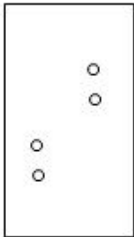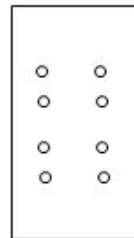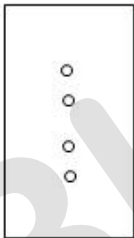
Ans

✔ 1.

✘ 2.

✘ 3.

✘ 4.
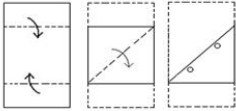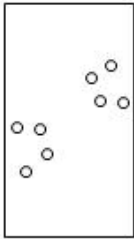
Question ID : **6549789199**

Status : **Answered**

Chosen Option : **1**

Q.5 उस विकल्प का चयन कीजिए जिसके शब्दों के मध्य वही संबंध है, जो दिए गए शब्द–युग्म के शब्दों के मध्य है।

मुर्गा : मुर्गी

Ans ✘ 1. बिल्ली : बिल्ली का बच्चा

✔ 2. घोड़ा : घोड़ी

✘ 3. मेंढक : टैडपोल

✘ 4. मालिक : मकान मालिक

Question ID : **6549787171**

Status : **Answered**

Chosen Option : **2**

Q.6 Select the option in which the numbers are related in the same way as are the numbers of the following set.

(11, 5, 246)

Ans ❌ 1. (12, 9, 224)

❌ 2. (16, 9, 331)

✅ 3. (14, 6, 412)

❌ 4. (10, 7, 355)

Question ID : **6549787161**

Status : **Answered**

Chosen Option : **3**

Q.7 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 teachers are graduates.
Some graduates are females.
All females are women.

Conclusions:

I. Some females are teachers.
II. Some women are teachers.
III. All women are females.

Ans ✅ 1. None of the conclusions follow.

❌ 2. Only conclusion I follows.

❌ 3. Only conclusion II follows.

❌ 4. Only conclusions II and III follow.

Question ID : **6549789194**

Status : **Answered**

Chosen Option : **1**

Q.8 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd one.

Ans ❌ 1. NRWC

❌ 2. QUZF

❌ 3. CGLR

✅ 4. LPTA

Question ID : **6549787172**

Status : **Answered**

Chosen Option : **4**

Q.9 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Pleasant
2. Placard
3. Plentiful
4. Pleased
5. Plight

Ans ✗ 1. 1, 2, 4, 3, 5

✗ 2. 4, 1, 2, 3, 5

✓ 3. 2, 1, 4, 3, 5

✗ 4. 2, 1, 4, 5, 3

Question ID : **6549787164**

Status : **Answered**

Chosen Option : **3**

Q.10 In a certain code language, HIGHER is written as JIIHSF. How will CODING be written in that language?

Ans ✗ 1. PDEJOK

✗ 2. OHJEPD

✗ 3. FOHEND

✓ 4. PDJEHO

Question ID : **6549789185**

Status : **Not Answered**

Chosen Option : **--**

Q.11 Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

DGKP : BJGU :: HKOT : ?

Ans ✗ 1. JIRP

✓ 2. FNKY

✗ 3. GJNS

✗ 4. FMKW

Question ID : **6549789187**

Status : **Answered**

Chosen Option : **2**

Q.12 Which two signs should be interchanged to make the following equation correct?

10 –15 × 9 ÷ 6 + 8 = 8

Ans ✗ 1. × and −

✗ 2. + and ÷

✗ 3. + and ×

✓ 4. – and ÷

Question ID : **6549789178**

Status : **Answered**

Chosen Option : **4**

Q.13 Select the option that is related to the fourth number in the same way as the first number is related to the second number and the fifth number is related to the sixth number.

12 : 146 :: ? : 443 :: 16 : 258

Ans ✗ 1. 19

✓ 2. 21

✗ 3. 23

✗ 4. 20

Question ID : **6549787159**

Status : **Answered**

Chosen Option : **2**

Q.14 M is the only son of R. P is the sister of Q. X is the father of C, who is the wife of R. Q is the daughter of X's only daughter. How is M related to X?

Ans ✗ 1. Brother

✗ 2. Son

✗ 3. Nephew

✓ 4. Grandson

Question ID : **6549788382**

Status : **Answered**

Chosen Option : **4**

Q.15 How many triangles are there in the given figure?

Ans ✗ 1. 18

✗ 2. 16

✗ 3. 15

✓ 4. 17

Question ID : **6549787177**

Status : **Answered**

Chosen Option : **4**

Q.16 If 31 August 2008 was Sunday, then what was the day of the week on 30 August 2012?

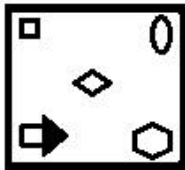**Ans** ✗ 1. Wednesday

✓ 2. Thursday

✗ 3. Monday

✗ 4. Tuesday

Question ID : **6549787157**

Status : **Answered**

Chosen Option : **2**

Q.17 Select the figure from among the given options that can replace the question mark (?) in the following series.
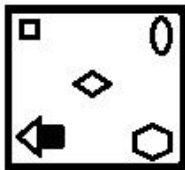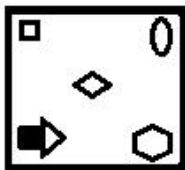

Ans

✗ 1.

✗ 2.

✔ 3.

✗ 4.
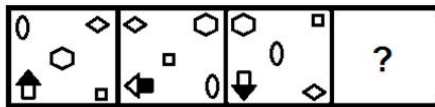
Question ID : **6549787176**

Status : **Answered**

Chosen Option : **3**

Q.18 Select the number from among the given options that can replace the question mark (?) in the following series.
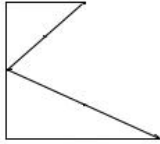
7, 9, 14, 24, ?, 67

Ans ✗ 1. 43

✔ 2. 41

✗ 3. 37

✗ 4. 45

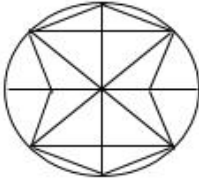Question ID : **6549789182**

Status : **Answered**

Chosen Option : **2**

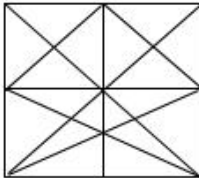**Q.19** Select the option in which the given figure is embedded (rotation is NOT allowed).
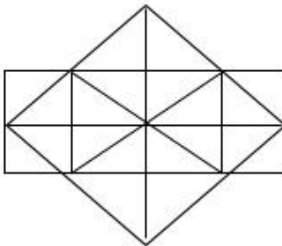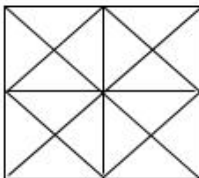
Ans

✗ 1.

✔ 2.

✗ 3.

✗ 4.

Question ID : **6549789198**

Status : **Answered**

Chosen Option : **2**

Q.20 'Craniology' is related to 'Skull' and 'Oology' is related to 'Eggs' in the same way as 'Pedology' is related to _____.

Ans ✔ 1. Soil

✗ 2. Fossils

✗ 3. Artifacts

✗ 4. Shells

Question ID : **6549789188**

Status : **Answered**

Chosen Option : **1**

Q.21 Select the correct mirror image of the given figure when the mirror is placed at the right side of the figure.

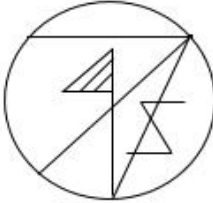**Ans**

✔ 1.

✘ 2.

✘ 3.

✘ 4.

Question ID : **6549789200**

Status : **Answered**

Chosen Option : **1**

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

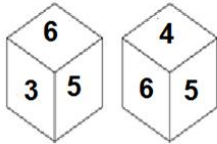**Ans** ✔ 1. 8 : 66

✘ 2. 5 : 30

✘ 3. 7 : 56

✘ 4. 9 : 90

Question ID : **6549787163**

Status : **Answered**

Chosen Option : **1**

Q.23 Two different positions of the same dice are shown. Select the number that will be on the face opposite to the one having 4.

Ans
✗ 1. 5
✗ 2. 1
✗ 3. 2
✔ 4. 3

Question ID : **6549787175**
Status : **Answered**
Chosen Option : **4**

Q.24 **Four words have been given, out of which three are alike in some manner and one is different. Select the word that is different.**
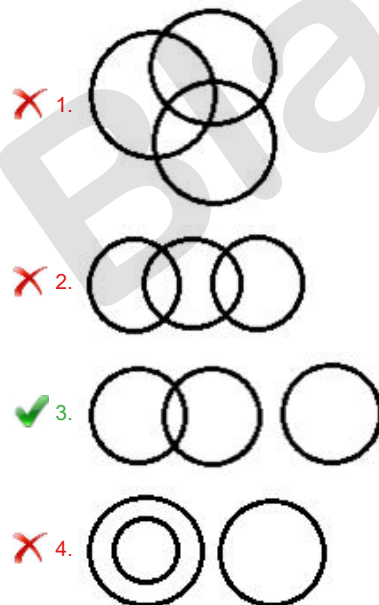
Ans
✗ 1. Cucumber
✗ 2. Bean
✔ 3. Potato
✗ 4. Pumpkin

Question ID : **6549789193**
Status : **Answered**
Chosen Option : **3**

Q.25 Select the Venn diagram that best represents the relationship between the following classes.

Kings, Queens, Mothers

Ans

✗ 1.

✗ 2.

✔ 3.

✗ 4.

Question ID : **6549787181**
Status : **Answered**
Chosen Option : **3**

Section : **Quantitative Aptitude**

Q.1 The average pass percentage of girls in class X examination in a school is 85% and that of boys is 83%. The average pass percentage of all boys and girls in class X of that school is 83.7%. Find the percentage of the number of girls in class X of that school.

Ans ✗ 1. 45%

✗ 2. 40%

✗ 3. 30%

✔ 4. 35%

Question ID : **6549787185**

Status : **Answered**

Chosen Option : **4**

Q.2 The number of students enrolled in different streams at Senior Secondary level in five schools is shown in the bar graph.

Number of students in different streams in a year
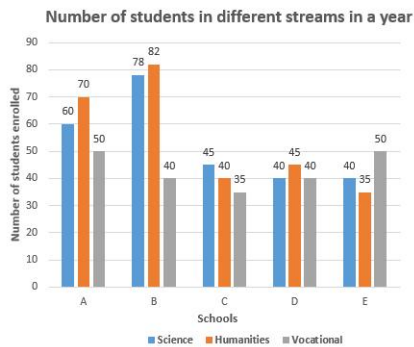
In which school is the number of students the least?

Ans ✔ 1. C

✗ 2. D

✗ 3. A

✗ 4. E

Question ID : **6549789223**

Status : **Answered**

Chosen Option : **1**

Q.3 If the perimeter of an isosceles right triangle is $15(\sqrt{2}+1)$ cm, then the area of the triangle will be:

Ans ✔ 1. $56.25\ cm^2$

✗ 2. $46.5\ cm^2$

✗ 3. $55\ cm^2$

✗ 4. $45\ cm^2$

Question ID : **6549787193**

Status : **Answered**

Chosen Option : **1**

Q.4 If the number 645A2879B8 is divisible by both 8 and 9, then the smallest possible values of A and B will be:

Ans

   ✘ 1. A = 2, B = 3

   ✘ 2. A = 4, B = 3

   ✘ 3. A = 3, B = 4

   ✔ 4. A = 3, B = 2

Question ID : **6549787198**

Status : **Answered**

Chosen Option : **4**

Q.5 A square park has been divided into two rectangles of equal area. If the perimeter of each of these rectangles is 39 m, then what will be the perimeter of the square park?

Ans

   ✘ 1. 78 m

   ✘ 2. 104 m

   ✔ 3. 52 m

   ✘ 4. 39 m

Question ID : **6549789204**

Status : **Answered**

Chosen Option : **3**

Q.6 If $x^4 + \dfrac{1}{x^4} = 1154, \ x > 0$, then what will be the value of $x + \dfrac{1}{x}$?

Ans

   ✘ 1. $\sqrt{34}$

   ✘ 2. 18

   ✔ 3. 6

   ✘ 4. $\sqrt{32}$

Question ID : **6549789216**

Status : **Answered**

Chosen Option : **3**

Q.7 The simple interest on a certain sum of money for 5 years at the rate of 10% per annum is half the compound interest on ₹5,000 for 2 years at the rate of 10% per annum, interest compounded yearly. The sum placed on simple interest is:

Ans

   ✘ 1. ₹1,540

   ✔ 2. ₹1,050

   ✘ 3. ₹1,450

   ✘ 4. ₹1,500

Question ID : **6549787190**

Status : **Answered**

Chosen Option : **2**

Q.8 A shopkeeper offers successive discounts of 35%, 10% and 6% on every item. At what price (nearest to a rupee) customers can get an item marked for ₹1,000?

Ans
   ✔ 1. ₹550
   ✘ 2. ₹645
   ✘ 3. ₹450
   ✘ 4. ₹562

Question ID : **6549789206**
Status : **Answered**
Chosen Option : **1**

Q.9 If two numbers are in the ratio 4 : 7 and the sum of their cubes is 407000, then the greater number will be:

Ans
   ✘ 1. 63
   ✔ 2. 70
   ✘ 3. 77
   ✘ 4. 84

Question ID : **6549787189**
Status : **Answered**
Chosen Option : **2**

Q.10 AB is the diameter of a circle of radius 9 cm. PQ is a chord (not a diameter) that intersects AB at M perpendicularly. If AM : BM = 5 : 4, then the length of chord PQ will be:

Ans
   ✔ 1. $8\sqrt{5}$ cm
   ✘ 2. $5\sqrt{5}$ cm
   ✘ 3. $6\sqrt{3}$ cm
   ✘ 4. $6\sqrt{5}$ cm

Question ID : **6549787191**
Status : **Not Answered**
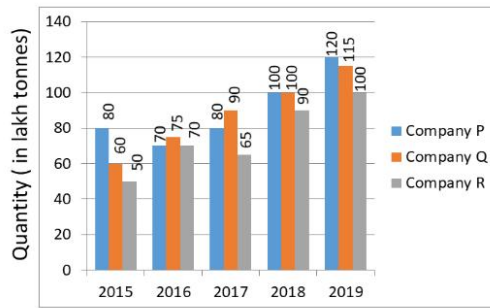Chosen Option : **--**

Q.11 If $x + y = 27$ and $x^2 + y^2 = 425$, then the value of $(x - y)^2$ will be:

Ans
   ✘ 1. 144
   ✘ 2. 225
   ✔ 3. 121
   ✘ 4. 169

Question ID : **6549787195**
Status : **Answered**
Chosen Option : **3**

Q.12 Study the given bar graph and answer the question that follows.

The bar graph indicates the production of sugar (in lakh tonnes) by three different sugar companies P, Q and R over the years 2015 to 2019.

The percentage rise in the production of sugar by company Q as compared to the previous year is the maximum in the year:

Ans ✗ 1. 2018

✗ 2. 2019

✗ 3. 2017

✓ 4. 2016

Question ID : **6549787206**
Status : **Answered**
Chosen Option : **4**

Q.13 Simplify the following expression.

$$\frac{52 + 1170 \div 26 + 13 \times 2}{2 + 1\frac{1}{8} \text{ of } 2 - 1\frac{1}{4}}$$

Ans ✓ 1. 41

✗ 2. $61\frac{1}{2}$

✗ 3. $37\frac{1}{3}$

✗ 4. $24\frac{5}{6}$

Question ID : **6549789219**
Status : **Answered**
Chosen Option : **1**

Q.14 If $\left(40\sqrt{5}x^3 - 2\sqrt{2}y^3\right) \div \left(2\sqrt{5}x - \sqrt{2}y\right) = Ax^2 + By^2 - Cxy$, then find the value of $A + 3B - \sqrt{10}C$.

Ans

✔ 1. 46

✘ 2. 34

✘ 3. 28

✘ 4. 6

Question ID : **6549789217**

Status : **Answered**

Chosen Option : **4**

Q.15 The number of students enrolled in different streams at Senior Secondary level in five schools has been shown in the bar graph.

What percentage of the total number of students in all the streams taken together in all the five schools is the number of students enrolled in the science stream in school A?

Number of students in different streams in a year
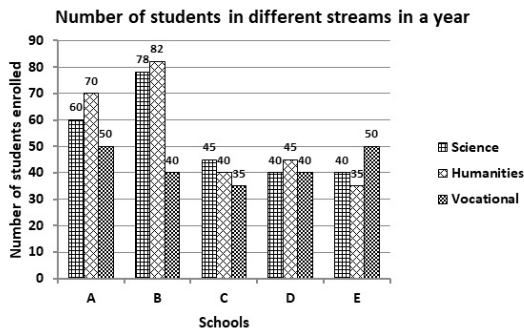
Ans

✔ 1. 8

✘ 2. 8.57

✘ 3. 6

✘ 4. 7.5

Question ID : **6549789527**

Status : **Answered**

Chosen Option : **1**

Q.16 If $5\cos\theta = 4\sin\theta, 0° \le \theta \le 90°$, then what will be the value of $\sec\theta$?

Ans

✘ 1. $\dfrac{\sqrt{41}}{5}$

✘ 2. $\dfrac{3}{5}$

✘ 3. $\dfrac{\sqrt{41}}{16}$

✔ 4. $\dfrac{\sqrt{41}}{4}$

Question ID : **6549789222**

Status : **Answered**

Chosen Option : **4**

Q.17 Ramesh saves $26\frac{2}{3}\%$ of his monthly salary. When his expenses are increased by 20%, he is able to save ₹4,080 per month. His monthly salary is:
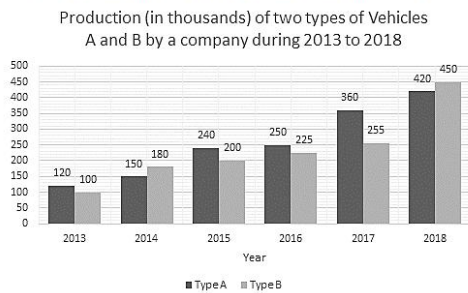
Ans

✗ 1. ₹30,000

✓ 2. ₹34,000

✗ 3. ₹35,000

✗ 4. ₹38,000

Question ID : **6549787187**

Status : **Answered**

Chosen Option : **2**

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

Production (in thousands) of two types of Vehicles A and B by a company during 2013 to 2018

	2013	2014	2015	2016	2017	2018
Type A	120	150	240	250	360	420
Type B	100	180	200	225	255	450

■ Type A   ▥ Type B

By what percentage (approximately) is the average number of vehicles of type B produced in 2014, 2016 and 2018 less than the number of vehicles of type A produced in 2017?

Ans

✓ 1. 20.8

✗ 2. 21.4

✗ 3. 18.6

✗ 4. 23.6

Question ID : **6549786699**

Status : **Answered**

Chosen Option : **1**

Q.19 If $\dfrac{cosec^2\theta}{cosec^2\theta - cot^2\theta} = \dfrac{13}{4}$, $0° < \theta < 90°$, then the value of $\dfrac{52\cos^2\theta - 9\tan^2\theta}{18\sec^2\theta + 8\cot^2\theta}$ will be:

Ans

✗ 1. $\dfrac{8}{13}$

✓ 2. $\dfrac{8}{11}$

✗ 3. $\dfrac{5}{11}$

✗ 4. $\dfrac{4}{11}$

Question ID : **6549787201**

Status : **Not Answered**

Chosen Option : **--**

Q.20 The speed of a car is 40% more than that of a bus. A train covers 1020 km in $8\frac{1}{2}$ hours. How much distance will the car cover in $1\frac{3}{4}$ hours if the speed of the bus is half the speed of the train?

Ans   ✗ 1. 174 km

✔ 2. 147 km

✗ 3. 164 km

✗ 4. 145 km

Question ID : **6549787183**

Status : **Answered**

Chosen Option : **2**

Q.21 AB is 12 cm long chord of a circle with centre O and radius 10 cm. The tangents at A and B intersect at P. What is the length of OP?

Ans   ✗ 1. 10 cm

✔ 2. 12.5 cm

✗ 3. 12 cm

✗ 4. $2\sqrt{61}$ cm

Question ID : **6549789212**

Status : **Answered**

Chosen Option : **4**

Q.22 Suresh purchased a computer table for ₹9,000 and a centre table for ₹4,000. He sold the computer table with 8% profit. With what profit percentage should he sell the centre table so as to gain 10% on the whole transaction?

Ans   ✔ 1. 14.5

✗ 2. 15

✗ 3. 14

✗ 4. 12

Question ID : **6549789208**

Status : **Answered**

Chosen Option : **1**

Q.23 A can complete a task in 6 days, while B can complete the same task in 12 days. How many days will they take to complete the same task if they work together?

Ans   ✗ 1. 3

✗ 2. 5

✔ 3. 4

✗ 4. $4\frac{1}{2}$

Question ID : **6549789202**

Status : **Answered**

Chosen Option : **3**

Q.24 A circle is inscribed in a right-angled triangle. The lengths of the two sides containing the right angle are 15 cm and 8 cm.
What is the radius of the in-circle?

Ans

✗ 1. 4.5 cm

✗ 2. 4 cm

✗ 3. 3.75 cm

✔ 4. 3 cm

Question ID : **6549789214**

Status : **Answered**

Chosen Option : **4**

Q.25 In a right-angled triangle ABC right angled at C, sin A = sin B. What is the value of cos A?

Ans

✔ 1. $\dfrac{1}{\sqrt{2}}$

✗ 2. $\dfrac{1}{2}$

✗ 3. $\dfrac{\sqrt{3}}{2}$

✗ 4. 1

Question ID : **6549789220**

Status : **Answered**

Chosen Option : **1**

Section : **General Awareness**

Q.1 **Onions produce the chemical irritant known as syn-propanethial-S-oxide; this stimulates the eyes' _____ glands which release tears.**

Ans

✗ 1. parotid

✗ 2. submandibular

✔ 3. lachrymal

✗ 4. sublingual

Question ID : **6549789238**

Status : **Not Answered**

Chosen Option : **--**

Q.2 **Which of the following is a capacity-building scheme that was launched in 2020 for civil servants aimed at upgrading the post-recruitment training mechanism of the officers and employees at all levels?**

Ans

✗ 1. Mission Sahayog

✗ 2. Mission Swabhiman

✗ 3. Mission Rakshak

✔ 4. Mission Karmayogi

Question ID : **6549789233**

Status : **Answered**

Chosen Option : **4**

Q.3 **Which everyday morning ritual is part of quantum mechanics?**

Ans ✅ 1. Ringing of an alarm clock

❌ 2. Making tea

❌ 3. Reading newspaper

❌ 4. Brushing teeth

Question ID : **6549789236**

Status : **Not Answered**

Chosen Option : **--**

Q.4 **Which of the following provisions and the constitutions of different countries from which they have been adopted in the Constitution of India has been INCORRECTLY paired?**

Ans ❌ 1. Charter of Fundamental rights - United States Constitution

❌ 2. The idea of the rule of law - British Constitution

✅ 3. Principals of Liberty, Equality and Fraternity - Canadian Constitution

❌ 4. Directive Principles of State Policy - Irish Constitution

Question ID : **6549787227**

Status : **Answered**

Chosen Option : **3**

Q.5 **Which Indian film was the first film to win the 'Palme d'Or' at Cannes Film Festival?**

Ans ❌ 1. Mughal-e-Azam

❌ 2. Mother India

✅ 3. Neecha Nagar

❌ 4. Ram Aur Shyam

Question ID : **6549789245**

Status : **Not Answered**

Chosen Option : **--**

Q.6 **Who among the following started the construction of the Qutub Minar?**

Ans ❌ 1. Akbar

❌ 2. Jahangir

✅ 3. Qutb al-Din Aibak

❌ 4. Iltutmish

Question ID : **6549787209**

Status : **Answered**

Chosen Option : **3**

Q.7 Who among the following is the head coach of India's men's (Senior) football team as of December 2020?

Ans
✗ 1. Dražen Ladić

✔ 2. Igor Stimac

✗ 3. Stephen Constantine

✗ 4. Robert Jarni

Question ID : **6549789250**

Status : **Answered**

Chosen Option : **3**

Q.8 Who was awarded the Nobel Prize in Literature 2020?

Ans
✗ 1. Reinhard Genzel

✗ 2. Andrea M Ghez

✗ 3. Roger Penrose

✔ 4. Louise Glück

Question ID : **6549787226**

Status : **Answered**

Chosen Option : **4**

Q.9 Who among the following is the first table tennis player to win the Rajiv Gandhi Khel Ratna Award?

Ans
✗ 1. Soumyajit Ghosh

✔ 2. Manika Batra

✗ 3. Sharath Kamal

✗ 4. Poulomi Ghatak

Question ID : **6549787231**

Status : **Answered**

Chosen Option : **2**

Q.10 Where were the terracotta models of the plough excavated in Harappan civilisation?

Ans
✗ 1. Kashmir

✔ 2. Banawali

✗ 3. Amrinal

✗ 4. Lothal

Question ID : **6549787224**

Status : **Answered**

Chosen Option : **2**

Q.11 According to 'Population estimation of tigers in reserves for 2018-19' which of the following is India's largest tiger reserve?

Ans ✓ 1. Corbett

✗ 2. Nagarhole

✗ 3. Dudhwa

✗ 4. Bandipore

Question ID : **6549789239**
Status : **Answered**
Chosen Option : **2**

Q.12 Which of the following institutions conducts the survey on employment and unemployment?

Ans ✗ 1. National Institution of Economic and Social Research

✗ 2. National Council of Applied Economic Research

✗ 3. NITI Aayog

✓ 4. National Sample Survey Organisation

Question ID : **6549787214**
Status : **Not Answered**
Chosen Option : **--**

Q.13 Which of the following is a dance form of West Bengal where there is a confluence of dancing, singing, drama and recital?

Ans ✓ 1. Alkap

✗ 2. Bhavai

✗ 3. Tippani

✗ 4. Hudo

Question ID : **6549789230**
Status : **Answered**
Chosen Option : **3**

Q.14 Which of the following ships was launched on 14 December 2020 in Kolkata?

Ans ✗ 1. INS Jalashwa

✗ 2. INS Kolkata

✓ 3. INS Himgiri

✗ 4. INS Shardul

Question ID : **6549787212**
Status : **Answered**
Chosen Option : **4**

Q.15 Which of the following teams has won the Indian Premier League (IPL) trophy five times as of November 2020?

Ans   ✗ 1. Rajasthan Royals

   ✗ 2. Chennai Super Kings

   ✗ 3. Sunrisers Hyderabad

   ✓ 4. Mumbai Indians

Question ID : **6549787229**

Status : **Answered**

Chosen Option : **4**

Q.16 How many bits does an IP address consist of?

Ans   ✓ 1. 32

   ✗ 2. 16

   ✗ 3. 12

   ✗ 4. 24

Question ID : **6549789228**

Status : **Answered**

Chosen Option : **1**

Q.17 In which of the following options is the substance INCORRECTLY paired with the acid present in that substance?

Ans   ✗ 1. Orange - Citric Acid

   ✓ 2. Lemon - Lactic Acid

   ✗ 3. Tomato - Oxalic Acid

   ✗ 4. Vinegar - Acetic Acid

Question ID : **6549787217**

Status : **Answered**

Chosen Option : **2**

Q.18 When an economy is facing inflation, what will the central bank of the country do?

Ans   ✗ 1. Reduce the cost of money by reducing rates

   ✗ 2. Print more notes

   ✓ 3. Raise the cost of money by raising rates

   ✗ 4. Set up more ATMs to help the public

Question ID : **6549789235**

Status : **Answered**

Chosen Option : **1**

Q.19 **In which year did Akbar analyse the state revenue statistics for the last 10 years, which contained information on price fluctuations and land productivity?**

Ans   ✗ 1. 1548

   ✗ 2. 1569

   ✓ 3. 1580

   ✗ 4. 1536

Question ID : **6549789243**

Status : **Not Answered**

Chosen Option : **--**

Q.20 **Purna, Manjira and Pranhita are tributaries of:**

Ans   ✗ 1. Chambal

   ✗ 2. Indus

   ✓ 3. Godavari

   ✗ 4. Yamuna

Question ID : **6549787222**

Status : **Answered**

Chosen Option : **4**

Q.21 **India's longest LPG pipeline is from Jamnagar to _____.**

Ans   ✗ 1. Hazira

   ✓ 2. Loni

   ✗ 3. Namrup

   ✗ 4. Vijaynagar

Question ID : **6549789240**

Status : **Not Answered**

Chosen Option : **--**

Q.22 **Second generation computers (1955-1964) were made of:**

Ans   ✗ 1. small scale integrated circuit chips

   ✗ 2. large scale integrated circuit chips

   ✗ 3. vacuum tubes

   ✓ 4. transistors

Question ID : **6549787207**

Status : **Answered**

Chosen Option : **3**

Q.23 Which of the following Articles of the Constitution of India details 'Prohibition of discrimination on grounds of religion, race, caste, sex or place of birth'?

Ans ✗ 1. Article 22

✗ 2. Article 27

✗ 3. Article 10

✓ 4. Article 15

Question ID : **6549789248**

Status : **Answered**

Chosen Option : **4**

Q.24 Which of the following valleys is NOT located in Himachal Pradesh?

Ans ✓ 1. Silent Valley

✗ 2. Malana Valley

✗ 3. Markha Valley

✗ 4. Chumbi Valley

Question ID : **6549787221**

Status : **Answered**

Chosen Option : **1**

Q.25 With which bank did Indian Army sign an MoU for serving retired personnel in December 2020?

Ans ✗ 1. HDFC Bank

✗ 2. Union Bank

✓ 3. Bank of Baroda

✗ 4. State Bank of India

Question ID : **6549787211**

Status : **Not Answered**

Chosen Option : **--**