

Fill in the blanks with the option that makes the sentence grammatically correct.

He said that five miles \_\_\_\_\_ too far him to walk.

Were

Are

**Was**

Are being

The panel \_\_\_\_\_ deciding how they want to select the winner.

Have been

Are

**Is**

Were

I am sure they \_\_\_\_\_ for us at the station when we arrive.

Had waited

Wait

Are waiting

**Would be waiting**

ABSTINENCE (OPPOSITE)

Temperance

Soberity

**Indulgence**

Avoidance

How many factors of  $4^8 \times 6^3 \times 7^2$  are perfect squares?

**5**

8

16

20

A four-digit number is to be formed from a given set of numbers -1, 3, 4, 5, 8 such that each digit in the number is distinct. Find the probability that a number formed is an even number.

3/10

2/5

**1/10**

1/5

1/4 of a commodity is sold at a profit of 20%. 1/3 of the commodity is sold at a profit of 5% and the remaining part of the commodity is sold at a profit of 24%. If the total profit on the-commodity is Rs.100, what is the value of the commodity?

**1500**

1000

800

500

If SYSTEM is written as SYSMET and NEARER is written as AENRER, then what can STUDENTS be written as?

STNEDUTS

**DUTSSTNE**

DUTSENTS

STUDSTNE

The conditions to select students who will be awarded scholarship as part of the Bright Youth Scholarship program are as follows. The applicant must

Be a citizen of United States.

Be enrolled in a full- time master's program in psychology.

Have completed her/his bachelor's degree with a score of at least 65%

Not be more than 30 years of age.

Not be in receipt of any other scholarship benefit it for the current academic year.

However, if an applicant

Fulfills all other conditions except (1) but is a Green Card holder, when should be referred to the Director, Selection Committee.

Fulfills all other conditions except(2) but is enrolled in a part time master's program in psychology and has at least two years of professional work experience in the field of psychology. She/he should be referred to the Assistant Director, Selection Committee.

**(The last date to apply for the scholarship is April 30, 2018)**

A decision has to be taken on the basis on the given conditions. There are two cases based on the same set of conditions. Take a decision for both the cases and mark the correct answer for each.

Oliver is a citizen of the United States. He is 27 years of age. He completed his bachelor's degree in psychology on August 19, 2014 and worked there till January 31, 2018. He has now enrolled for a part-time master's program in psychology at a private university. He has not applied for any their scholarship for this academic year. Should the scholarship be awarded to the student?

### **OPTIONS**

The scholarship should be awarded for the applicant.

The applicant should be referred to the Assistant Director Selection Committee.

The applicant should be referred to the assistant director selection committee.

Insufficient data.

The conditions to select students who will be awarded scholarship as part of the Bright Youth Scholarship program are as follows. The applicant must

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Be enrolled in a full- time master's program in psychology.

Have completed her/his bachelor's degree with a score of at least 65%

Not be more than 30 years of age.

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Fulfills all other conditions except (1) but is a Green Card holder, when should be referred to the Director, Selection Committee.

Fulfils all other conditions expect(2) but is enrolled in a part time master's program in psychology and has at least two years of professional work experience in the field of psychology. She/he should be referred to the Assistant Director, Selection Committee.

**(The last date to apply for the scholarship is April 30, 2018)**

A decision has to be taken on the basis on the given conditions. There are two cases based on the same set of conditions. Take a decision for both the cases and mark the correct answer for each.

Ava was born on February 07, 1993, She is a Green Card holder. She is requested as a full-time student in the master's program in psychology at a public University. She completed

Her bachelor's degree in arts in the year 2017. She applied for another scholarship earlier this year but did not win it. Should the scholarship be awarded to the applicant?

**OPTIONS**

The scholarship should be awarded for the applicant.

The applicant should be referred to the Assistant Director Selection Committee.

The applicant should be referred to the assistant director selection committee.

Insufficient data.

Pointing to a boy in a photograph, a girl said," He is the son of the daughter in law of my mother's mother. How is the girl related to the boy?

Son

Brother

Nephew

**Cousin**

A tourist drives 10km towards East and Turns right and drives for another 3 km. He then drives another 3km towards West (turning to his right). He then turns to his left and walks another 2 km, Afterwards, he turns to his right and travels 7 km. How far and in which direction will be from his starting point?

10 km east

9 km north

**8 km west**

5 km south

Sarosh walks 10 meters east and takes a right turn to walk 30 meters, then takes a right turn and walks 40 meters and then takes a right turn and walks 20 meters. In which direction is he standing now from the starting point?

North West

North east

South west

**South east**

If the letters of the word 'LEADER' are randomly arranged, find the probability that all the consonants always come together.

$\frac{1}{3}$

$\frac{1}{5}$

**$\frac{1}{10}$**

$\frac{2}{5}$

Express 0.824 as a fraction of the smallest form.

**$\frac{103}{125}$**

$\frac{4}{25}$

$\frac{102}{125}$

$\frac{17}{20}$

When a local train travels at a speed of 60 kmph, it reaches the destination on time. When the same train travels at speed of 50 kmph, it reaches its destination 15 minutes late. What is the length of journey?

**75 km**

50 km

60 km

85 km

If DETERMINE is coded as, ENIMRETED, then DECIDE is coded as

**EDICED**

FCEKFC

EFDJEF

FGDJFC

WOLLS: XPMMT::PILOT:?

**QJMPU**

QJJPV

QMMPU

QMJPV

If AEROPLANE is written as EAVKTHEJI, what will be the fourth letter from the right if AIRPORT is written in that code?

K

V

S

**L**

The conditions to avail a 50% discount on movie tickets are as follows. The customer must have booked the movie tickets online.

booked a minimum of three movie tickets in the same transaction.

paid for the movie tickets using ABC bank's diamond credit card.

booked the movie tickets after 10 AM but before 2 PM.

However, if a customer

Fulfils all the conditions except (2), but has booked a minimum of two movie tickets and the total bill is more than \$30, s/he should get a 20% discount.

Fulfils all other conditions except (3) but has used ABC banks sapphire credit card to pay for the movie tickets. S/he should get a 30% discount.

**(This case is presented on October 28, 2018.)**

A decision has to be taken on the basis on the given conditions. There are two cases based on the same set of conditions. Take a decision for both the cases and mark the correct answer for each.

Zen booked four movie tickets online at 12 pm. Along with the tickets, he also ordered some snacks. His total bill, including the snacks, was \$70 and he paid it by using ABC bank's sapphire credit card. How much discount should he get?

OPTIONS

He should get a discount of 50%.

He should get a discount of 30%.

He should get a discount of 20%.

He should not get any discount.

Insufficient data.

Radha is facing South, She turns  $135^{\circ}$  in the anticlockwise direction and then  $45^{\circ}$  in the clockwise direction, which direction is she facing now?

West

North

South

**East**

Philip was taking an evening stroll. He started walking north and walked for 50 meters, then he took a left turn and walked for another 20 meters, then he took a right turn and walked for 10 meters and sat on a bench there in which direction does the bench lie from Philip's starting point?

North-west

**South-east**

South-west

North

A man travels 3 kms to the west, turns left and goes 3 kms, turns right and goes 1 km, again turns right and goes 3 kms. How far is he from the starting point?

7 kms

6 kms

5 kms

**4 kms**

A17R: D1ZP :: G7N : ?

H2K

J3M

**J2L**

H3K

If SUBTRACT is written as VTUCBSUD, what will be the third letter from the left if addition is written in that code?

U

P

E

J

Parul is one – fifth the age her mother was 15 years ago and Parul's brother is three-fifth the age his mother was 10 years ago. If the sum of Parul and her brother's ages is 31, then how old is Parul's Mother?

**50**

40

35

60

A water filter takes 40 minutes to filter 20 litres of water. Another filter of same specifications takes 30 minutes to filter the same amount of water. If both the filters are used at the same time, then how long, will it take them to filter 70 liters of water?

$\frac{3}{2}$  hour

$\frac{3}{4}$  hour

**1 hour**

$1\frac{1}{2}$  hour

Machines X, Y and Z can manufacture a batch of products in 8 hours, 10 hours and 12 hours, respectively. The work of making a single batch of products is started on the machines at 11 AM, Machine X is switched off at 1 PM while the remaining two complete the work, By what time will a single batch of products be made?

1:00 PM

**3:00 PM**

2:00 PM

3: 30 PM



One third of a two digit number exceeds its one fourth by 7. What is the sum of digits of the number?

72

**84**

15

12

In a college, 47% of the total students are studying engineering. 37 % of the engineering students are vegetarians whereas 42% of the non- engineering students are non- vegetarians. What is the probability that a student selected at random is a non- engineering student given that he is a non-vegetarian?

**0.5708**

0.3613

0.6387

0.4291

Solve  $[13^{-1} + 14^{-1} + 15^{-1}]^0$

0

**1**

-1

None of the above

Looking at a man's portrait, Harsh said, "His mother is the wife of my father's son. Brothers and sisters I have none". At whose portrait was Harsh looking?

**His son's portrait**

His cousin's portrait

His uncle's portrait

His nephew's portrait

None of these

M is P's brother's son. N is the only brother of P. How is N related to M?

Nephew

**Father**

Cousin

Uncle

### **DIRECTION SENSE**

A man has strayed from his path while on his way to the park. He moves 100Km towards south, then another 40Km towards west. He then travels 70Km towards north and reached the park. What is the distance of the shortest possible route?

**50Km**

40Km

60Km

30Km

### **ODD MAN OUT**

Odd man out

ADG

HKN

**PSW**

MPS

### **STATEMENT AND CONCLUSION**

How is Sita related to Rita?

Statements:

Cita is the sister of Rita

Cita is Sita's daughter

Conclusions:

Statement I alone is sufficient

Statement II alone is sufficient

**Both statements put together are sufficient**

Both the statements even put together are not sufficient.

### **CODING AND DECODING**

If DELHI is coded as 34178, What is the code for MUMBAI?

**323108**

335545

323507

325548

If SIGMA is written as TGJIF, what will be the second letter from the right if ANGLE is written in that code?

J  
**H**  
L  
B

If CALLIGRAPH is written as LACCRLIHAP, what will be the fifth letter from the right if ABERRATION is written in that code?

.  
A  
**R**  
T  
I

If EVALUATE is written as LAVEETAU. What will be the third letter from the left. If ESTIMATE is written in that code?

T  
A  
**S**  
E

The ----- manners of the man signified that he belonged to an elite family

clumsy

nice

**urbance**

fabulous

-----, apartment that we live in is on the fifth street

**the**

an

a

some

she is currently staying ----- Texas

at

to

**in**

on

The theater where I work is ----- the block

**around**

over

from

against

I like to play ----- on weekends

a soccer

**soccer**

the soccer

some soccer

And it raises the question of wheather a peaceful ----- of disputes -----  
between the two is possible ,despite intensive ----- by the US.

outcome,compelling

**resolution,cajoling**

result,flattering

answer,persuasion

SLOTHFUL(OPPOSITE)

moderate

slow

**fast**

brake

PASSAGE

The criteria to select a poster to be judgrd in a fine arts competition are as follows.The student must

- 1..make a poster of at least 15 \*15;
- 2.make the entire poster graphically using a computer;
- 3.not portray any negative cultural stereotypes in the poster:
- 4.submit the poster at least two days prior to the competition

However in case of a student who

fulfills all other conditions except but makes a poster that is at least 12 \*12 and is printed on a flex sheet ,s/he should be referred to the controller, Fine Arts Society.

fulfills all other conditions except but makes a hand made poster using black ink marker on a white illustrationboard,s/he should be referred to the assistant controller fine arts society

fulfills all other conditions except but submits the poster at least a day prior to the competition with a fine of \$25,s/he should be referred to the converter , Fine Arts Society.

Anthony made 15\*15 poster on the theme ‘Men- The bridge winners’. He used Version 2.0 Of the latest photo editor software installed on his computer. He submitted the poster on April should the poster be selected?

options

the student’s poster must be selected to be judge

the student’s poster must not be selected to be judged

the student’s poster must referred to the country Fine Arts Society

the student’s poster must referred to the convenient Fine Arts Society

insufficient data

find  $\log_x^{y^3}$  give that x is not equally to y:

$$\log_x^y + \log_y^{x^2} = 3$$

in how many ways can 10 boys and 10 girls be seated around a round table that they are positioned alternately?

$$2*10!$$

$$10!*10!$$

**9!\*9!**

9!\*10!

An employee travels by car from his home to work every day. He travels at a speed of 60km/h him it takes 2hours and 50minutes to complete his journey, what is the total distance travelled by him?

**170km**

He slipped and spilled all the sauce ----- the floor.

toward

into

on

down

As per the recent ethical rules laid down by national institute of health diseases which can not be treated -  
----- would qualify for treatment involving human gene manipulation

dangerous

similar

alternatively

uncommon

I will be with you in on quarter of an hour

A quarter of hour

A quarter of an hour

A quarter of one hour

No change

In how many ways letter of the word 'PIOUS' be arranged such that the consonants always occur to the odd place?

21

36

18

12

In an objective exam which has 2 answer options each for all the questions, what probability that sushant answers all the question correctly?

$$2^{20}$$

$$(1/2)^{20}$$

$$2*20$$

$$1/2*20$$

DQYZ:FOAX:: NWHS:

PYFQ

PYJU

PUJQ

PUJY

If the selling price of a watch is halved , the profit becomes quartered . find the profit percentage of watch.

$$50\%$$

$$66.67\%$$

$$100\%$$

$$200\%$$

What is the loss percentage incurred by a company when it buys an asset for Rs1,50000 and sell it for Rs.75000?

$$49.67\%$$

$$49.34\%$$

$$98.68\%$$

$$98.34\%$$

A shopkeeper sold for 12 articles at the cost price of 20 articles. What is gain percentage?

$$80\%$$

$$33.33\%$$

$$66.67\%$$

40%

Out of every 100 people in police department ,10 are woman. Out of every 100 people in military forces ,3 are woman . in a batch of 100 police personnel and 200 army personnel,how many of them would be women?

24

30

18

6

For some animals, hunkering down in a cozy den during the cold winter months, when nights are long and temperatures are low, isn't just a matter of momentary comfort – it's essential for survival. Hibernation is when animals rest or stay asleep during the entire winter, while migration is the movement of animals from one place to another. The key reason that makes an animal hibernate or migrate is the lack of food, which occurs during the winter months due to the cold weather.

Hibernation is of different types. Some animals sleep deeply, while some of them are light sleepers. During the fall, animals start preparing for winter. They eat extra food and begin storing it as body fat. Their bodies utilize this fat for energy while hibernating. Some animals store food like nuts and acorns to eat later in the winter. During hibernation an animal's body temperature drops, heartbeat slows down, and it uses very little energy. If temperatures turn warm during the winter, the animals end up using more energy. wake up early, and then have no food to eat.

The places where the animals hibernate in the winter include dens, burrows. hollow logs. or in the openings between rocks. Animals also migrate to other areas during the winter months. Many birds fly long distances to escape the cold winter. Animals may also migrate to find a good habitat to raise their young. They use the sun as a compass when they fly during the day. others modify their path of travel so that it remains unaffected by the sun's movement. During the night time, some birds may use the stars to help them migrate. Birds and other animals such as sea turtles can detect north and south because they are able to feel the earth's magnetism. Storms, bad weather, pollution. and skyscrapers may also affect the birds during migration.

Similar to the hibernating animals, migrators prepare ahead of time. Some birds eat a lot and double their weight to fuel their regular feather shedding and growth. In short, there are numerous animals that hibernate or migrate during the winter months. The differences in their behavior may vary widely, but all have the same reason, to find food and survive the winter months.

### **Questions:**

What is the meaning of the word "hunkering in the context of the passage?

Descending

Crashing

Pouncing

Crouching



How do sea turtles detect north and south?

- By using sun as a compass
- By feeling the earth's magnetic fields
- By observing the birds that are migrating
- By using stars as a compass

What do animals do to prepare themselves for hibernation?

- Eat extra food
- Find a new habitat with surplus food
- Find a warmer location
- All of the above

What according to the passage could have an effect on the birds during migration?

- The source of water available in the path of migration
- Presence of predators in the path of migration
- The quality of air
- Presence of birds of the same species

The conditions to select an essay to be judged in a state level essay competition are as follows. The participant must

- be a regular student in grade 11 or 12 at any public or private school;
- have written the essay in minimum 700 and a maximum of 1,000 words;
- have listed the name of the reviewer who has reviewed the essay before the final submission. The reviewer must be a teacher who teaches at the same school as the essay participant;
- have submitted the essay online at least four days prior to the competition.

However, if a participant

fulfils all other conditions except (1) but is under the age of 20 and is enrolled in a high school correspondence program at a public school. s/he should be referred to the Controller, Selection Committee:

fulfils all other conditions except (3) but has listed the name of a parent or private tutor who has reviewed the essay in absence of a reviewer, s/he would be referred to the Assistant Director, Selection Committee.

**(The competition is on November 18, 2018)**

Mathew is a full-time student in grade 11 at a public school. He wrote an 800-word essay and submitted it online on November 5, 2018. Due to paucity of time his history teacher could not review his essay. His mother, who is a history graduate, reviewed the essay and so he mentioned his mother as the reviewer. Should the essay be selected?

- The essay should be selected.
- The participant should be referred to the Controller, Selection Committee.
- The participant should be referred to the Assistant Director, Selection Committee.
- The essay should not be selected.
- Insufficient data.

Jessica was born on January 10, 1999. She is pursuing her high school through a correspondence program with a public school. She wrote a 1000-word essay and mentioned her science teacher as the reviewer. She submitted her essay online on November 01, 2018. Should the essay be selected?

The essay should be selected.

The participant should be referred to the Controller, Selection Committee.

The participant should be referred to the Assistant Director, Selection Committee.

The essay should not be selected.

Insufficient data.

Of all the fitness and wellness activities in India, Artistic yoga is the new kind in town. It has successfully earned a pat on the back from whosoever has lent an ear to the latest advancements. Artistic yoga combines the suaveness of yoga and frenzy of modern cardio vascular exercises. The technique involves performance of various asanas and pranayams followed by walking on treadmill, stair climbing, cycling and so on. The activities are performed in a cyclic order and the asana or pranayam that is done in the beginning is repeated in the end. This helps an individual at the physical level as well as mental and spiritual level, thus helping bring about a complete transformation of body, mind and soul.

Artistic yoga helps in the overall development of those who practice it

B. Artistic yoga has been adopted by modern people since it is in fashion these days

C. All the activities performed at the beginning of artistic yoga are also repeated in the end

D. Since it combines yoga and exercises, artistic yoga will replace other fitness and wellness programs

4) Xtreme Sports and Fitness Club has launched "High-Intensity Workout" sessions for its members. The conditions to register for these sessions are as follows. The member must

be at least 18 years of age;

have paid any outstanding payment to the club authorities before April 10, 2018;

have submitted a physical fitness certificate along with the enrolment form;

have attended at least 60 hours of low-intensity workout sessions at the Xtreme Sports and Fitness Club after January 1, 2018, but before April 20, 2018.

However, if a member

fulfils all other conditions except (2) but pays the dues along with a fine of \$60 at least by April 15, 2018, s/he should be referred to the Treasurer, Club Council;

fulfils all other conditions except (3) but can submit the same at least by April 25, 2018, s/he should be referred to the President, Club Council.

**(the last date of registration is April 20, 2018)**

1) Luke is 28 years of age. He joined the Xtreme Sports and Fitness club on January 15, 2018 and has attended 75 hours of low-intensity workout sessions since then. He has not yet received his physical fitness certificate as he is recuperating from a mild muscle strain. He can submit the same by April 22, 2018. His membership fee for the month of March was due and he paid the same on April 10, 2018. Should the member be registered for the high-intensity workout sessions?

The member should be registered.

The member should be referred to the President, Club Council.

The member should be referred to the Treasurer, Club Council.

The member should not be registered.

Insufficient data

2) Mel is 25 years of age. She joined the Xtreme Sports and Fitness Club on February 28, 2018 and has attended 20 hours of low-intensity workout sessions so far. Prior to this, she has attended 90 hours of low-intensity workout sessions at the Prestige Fitness Club. She has submitted a physical fitness certificate

along with the enrolment form. She does not have due payment. Should the member be registered for the high-intensity workout sessions?

The member should be registered.

The member should be referred to the President, Club Council.

The member should be referred to the Treasurer, Club Council.

The member should not be registered.

Insufficient data

## NUMBERS SYSTEM

2.  $\{0,1,2,3,4,\dots\}$  are

integers

whole numbers

natural numbers

positive integers

Find a 2 digit smallest number which when divided by 1,2 and 3 leaves no remainder.

14

16

10

12

The sum of a rational number and its reciprocal is  $\frac{34}{15}$ . Find the number.

$\frac{17}{5}$

$\frac{3}{5}$

$\frac{5}{6}$

$\frac{6}{5}$

## LCM AND HCF

1. The LCM and HCF of two numbers are 3,61,800 and 3, respectively. If one of the numbers is 2,700, find the other number.

120

134

400

402

## RATIOS & PROPORTIONS

If the sum of 4 times a number A and three times a number B is equal to the sum of number B and seven times the number A then what is the value of A:B?

2:3

3:2

4:3

3:4

### PROBABILITY

what is the probability that sharique's test would be fixed on monday or tuesday in a week from monday to sunday?

$\frac{2}{7}$

$\frac{1}{5}$

$\frac{2}{3}$

$\frac{5}{7}$

2. 10 Scooters, 5 motorcycle and 15 cars are parked in the parking area of a market .what is the probability that a scooter will leave the parking first?

$\frac{1}{6}$

$\frac{1}{2}$

$\frac{3}{5}$

$\frac{1}{3}$

3. A and B are two independent events. The probability of occurrence of A is  $\frac{3}{10}$  and the probability of occurrence of b is  $\frac{15}{24}$ . find the probability that A and B occur simultaneously.

$\frac{111}{120}$

$\frac{13}{40}$

$\frac{3}{16}$

$\frac{12}{25}$

4. In a class of 80 students,  $\frac{4}{5}$  of them own cars. if  $\frac{15}{16}$  of them own alto. then how many own alto?

64

20

60

data inconsistent

4. In how many ways can the letters of the word 'JACKSON' be arranged such that the words always end with K?

96

120

720

360

5. In how many ways can 4 students and a teacher be seated in 5 chairs such that the teacher always sit in the middle?

4 ways

5ways

5!ways

4!ways

3!ways

If an event occurs twice as often as it fails, what is the probability that there will be three successes in the next 4 trials?

0

8/81

16/81

32/81

## TIME AND WORK

1. A man can complete a job in 12 days and his wife can complete the same job in 15 days. How long will they take to complete the job if they work together?

6  $\frac{2}{3}$  days

6  $\frac{1}{2}$  days

10  $\frac{1}{2}$  days

10  $\frac{2}{3}$  days

2. If a light flashes every 12 seconds, how many times will it flash in  $\frac{5}{6}$  of an hour?

250 times

300 times

150 times

50 times

### **TIME ,SPEED AND DISTANCE**

when a local train travels at a speed of 60kmph,it reaches the destination on time. when the same train travels at a speed of 50 kmph,it reaches its destination 15 minutes late.what is the length of the journey?

75km

50km

60km

85km

### **PERCENTAGES**

In a town of 2,00,000 citizens,if the population increases at the rate of 4%per annum,then what will be the population of the town in 2years from now?

2,10,000

3,55,555

1,84,320

2,16,000

2. in an examination involving quantitative aptitude and logical reasoning 65% examinees cleared quantitative aptitude test while 70% cleared logical reasoning test.if 50% examinees passes both the tests,then how many failed in both tests?

35%

15%

30%

20%

3.If the salary of a person is increases by 40% and then subsequently decreased by 40% ,by what percent does he lose?

16%

20%

25%

18%

4. Anu used to earn Rs.4000,a week from her job.later she got a promotion and now earns Rs.6500,a week .what is the percentage increases?

32%

48%

## PROFIT AND LOSS

Two tables and three chairs together cost Rs.1,500 whereas three tables and two chairs together cost rs.2000.Find the total cost of two tabbless and two chairs.

1,200

1,400

2,600

2,400

2. A flower seller purchases roses at rs.96 a dozen and sells them at rs.10 per flower.what is the profit percent of the flower seller?

40%

20%

15%

25%

3. The Printed price on a book is Rs.400,a bookseller offers a 10% discount on it.if he still earns a profit of 12% ,then the cost price of the book is:

Rs.280

Rs.352

Rs.360

Rs.321.42

3. A trader sold an article at a profit of 20%.if he had bought that article at Rs.30.less and sold it at the same selling price,he would have made a profit of 40%.what is the selling price of the article?

Rs.210

Rs.250

Rs.180

Rs.252

## SIMPLE INTEREST

At what rate of interest per annum will be an amount of money triple itself in 20 years?

20%

15%

13%

10%

2. What will be the ratio of simple interest earned on Rs.15,000 at same rate of interest for 8 years and 12 years?

2:3

1:3

9:5

3:4

## SIMPLIFICATION

1. Express 0.824 as a fraction of the smallest form.

$103/125$

$4/25$

$102/125$

$17/20$

2. if  $6(x - 3) = 36(x - 5)$ , then what is the value of x?

2 no value will agree

-1

7

3. Find the value of x:

$$\sqrt{(2x - 5)} = 10$$

52.5

7.5

50

4.08

4. solve for x:

$$x/6 + 5x/7 = 3x - 9$$

$x = -4.25$

$x = -4$

$x = 4.25$

$x = 4$

5. Choose the correct option

If  $x = -2$ , what is the value of  $(x^2 + 1)/(x - 1)$ ?



-5/3

5/3

1

-1

The value of  $6 + (4/2)2 \times 8$  is \_\_\_\_\_

56

52

80

38

### **Spotting Error**

Read the sentence to find out whether there is any grammatical error in it. The error, if any will be in one part of the sentence the letter of that part is the answer ignore the error of punctuation, if any.

Shalini win the race (B) as she practiced too (C) hard for the tournament

(A)

(B)

(C)

No error

Correct option is:

(A) Sachin hit a century (b) in the second cricket match (c) between india against australia.(d) no error

(A)

(B)

(C)

No error

Correct option is:

### **SELECTING WORDS**

I heard that the chairman\_\_\_\_\_ the company.

Is leaving

Has been leaving

Leaves

Had been leaving

Correct option is:

We \_\_\_\_\_ to watch the match.

Have being gone

Were gone

Went  
Will have going

Correct option is:

Neither the file nor the papers\_\_\_\_\_ kept in the locker.

Was  
Were  
Is  
Has been

Correct option is:

### SENTENCE COMPLETION

The toxic wastes of many factories are drained into the adjoin rivers and lakes, leading to \_\_\_\_\_ contamination.

The  
Its  
All  
Their

Correct option :

The petrol price has been rising for the past 5 years.its is highly \_\_\_\_\_ that it will decrease in the near future.

Unrealistic  
Unlikely  
Unnatural  
Unacceptable

Correction option is:

Increasing amount of junk from computers in America has forced them to recycle it for future use. One of the \_\_\_\_\_ units is set up in india.

Recycles  
Recycled  
Recycling  
Recycle

Correct Option :

He always wears a ring \_\_\_\_\_ his finger.

In  
On  
At  
To

Correct options:

Rupa decided to put in more efforts to learn mathematics as she believed that one should not give \_\_\_\_\_ easily.

Away

Up

In

off

The theater where I work is \_\_\_\_\_ the book

Around

Over

From

Against

Correct option:

I like to play \_\_\_\_\_ on weekends.

A soccer

Soccer

The soccer

Some soccer

Correct option :

## SENTENCE IMPROVEMENT

Improve the sentence by selecting the correct alternative to the italicized part of the sentence.

Rashid was *taken aback* when he got his health reports.

Surprised

Shocked

Afraid

Worried

Correct option is:

According to a recent research by experts, many *women's became* victims of trafficking

Women's are becoming

Women becomes

Women became

No improvement needed

Correct option :

I did not go to school *in a week* after an accident

Through

With in

For

After

Correct option:

The boss was unsure as to what *Triggered* the argument between shayam and Shankar.

Spread

Broke

Halted

Provoked

Correct option:

The code should be thoroughly checked for errors even if we have an iota of doubt

A bit

A lot

Nill

Few

Correct option

### **SPOTTING ERRORS**

(A) A salesman of that (B) company tried to (C) cheated a naïve lady

A

B

C

No Error

Correct Option is:

(A) There is a lots/(B) of milk left in the jar/(c) for the rest of us/(D) No Error

A

B

C

D

Correct option:

## ANTONYMS

EMINENT

Inferior

Credited

Prestigious

Important

Correct Option :

WEIRED

Friendly

Normal

Creepy

Genuine

Correct option:

TREACHEROUS

Faithful

Fake

Unsurpassable

Correct option:

AVAILABLE

Short

Lack

Cheap

Interested

Correct option

## JUMBLED SENTENCES

**In the question each passage consists of six sentences. The first and the sixth sentences are given in the beginning. The remaining are jumbled up and assigned labels : P,Q,R & S.**

S1: A lot of kids were complaining of stomach ache.

S6: However the authorities are not ready to take any responsibility

P: they have also asked the school authorities to close down the school.

Q: Parents have asked the food sample to be tested.

R: The problem started after their mid day meal was served.

S: Thus,it had to be something in the food they had eaten.

SRQP

RSQP

PRQS

QSPR

Correct Option is:

1)

Suxushi Pvt. Company is looking for a laptop company to buy 5000 laptops. The criteria basis for selection includes –

The company should provide a guarantee of minimum 3 years.  
Laptops should have 3 important features - Dual core processor, battery back up of minimum 3 hours and a screen size of 14 inches  
The price of a laptop should not be more than 30,000 rupees.  
The company should have a experience of ten years or more in IT field.  
The company should not have any legal case pending against them

However, if the firm satisfies all of the above criteria except:  
criteria (2) but provides any of the above two features then his/her case may be referred to the Director.  
criteria (3) but provides an auxiliary voucher of a laptop bag, then his/her case may be referred to the Finance manager.  
criteria (4) but has a experience of minimum five years then his/her case is referred to the chairman of the company.

(All cases stand on 25th April 2012)

1)

Vio Group is best known for its laser sensor laptops which have a dual core processor, four hour battery back up, vision detector sensor and a 14 inch screen. The price of the laptop is Rs. 33,000 The company has no history of any legal cases ever since its inception in 1999. It provides a guarantee of four years and a laptop bag to its customers.

- i) Suxushi will buy the laptops
- ii) Suxushi will not buy the laptops
- iii) The case will be referred to the Director
- iv) The case will be referred to the Chairman
- v) The case will be referred to the Finance Manager

2)

Hallardpackwell laptop company was established on 26th November 1997. Hallard laptops have a dual core processor and a battery back up of four hours. In 1999, Hallard were accused of copying an Intium feature, which was over ruled by a U.S. court in 2006. The laptops costs 28,000 rupees and provides a guarantee of four years.

- i) Suxushi will buy the laptops
- ii) Suxushi will not buy the laptops
- iii) The case will be referred to the Director
- iv) The case will be referred to the Chairman
- v) The case will be referred to the Finance Manager

2)

**There are 2 questions based on the same data. Answer the questions based on the given information:**

The following are the conditions for selecting a "Management trainee for a reputed company. The candidate must:

- Be a post graduate in commerce with atleast 60% marks or a CA.
- Not be more than 25 years old and less than 20 years old as on 1.12.2009.
- Have fluency in English and Hindi.
- Be in a position to pay Rs.10000 as deposit to the company.
- 5. Give an undertaking to work for atleast 5 years for the company.

However,

- a.) If the candidate fulfills all conditions except (1.) then he/she should be referred to the Managing Director of the Company.
- b.) If the candidate fulfills all the conditions except (4.) then he/she should be referred to the chairman of the Company.

**Should the given candidate be selected? (The case is presented as on 1.12.2009)**

1)

Rajan is a post graduate in Commerce with 70% marks. He is fluent in English and Hindi. He is willing to take the 5 year undertaking and is also ready to pay the required deposit. His date of birth is 01.11.1989.

- i) Insufficient Data
- ii) Candidate should not be selected
- iii) Candidate should be selected
- iv) Candidate is to be referred to the Managing Director
- v) Candidate is to be referred to the Chairman

2)

23 year old Suresh is a CA with fluency in Hindi and English. He can pay Rs.8000 as deposit and will give five years undertaking.

- i) Insufficient Data
- ii) Candidate should not be selected
- iii) Candidate should be selected
- iv) Candidate is to be referred to the Managing Director
- v) Candidate is to be referred to the Chairman

3)

Consider the situation where two or more people are gathered such as a wedding reception, a job interview or even two off-duty cops hanging out in a mall. What is the common link between these situations? Almost all of them involve people trying to talk to each other. But in these very moments where a conversation would enhance an encounter, we often fall short. We can't think of a thing to say. Or worse, we do a passable job at talking. We stagger through our romantic, professional and social worlds with the goal merely of not crashing, never considering that we might soar.

Not every single conversation that you have is going to be in-depth and serious. And that's completely fine! You should relax. Eventually, while you're sitting there talking small talk, something's going to pique your interest, or something's going to catch their interest. And someone's going to ask a question, and it's going to lead you further deeper into the subject matter. So it will happen if there's something there to talk about. Otherwise, be on your way and let it go. By the time that you're thirsty, you're already

dehydrated. So by the time you've reached an awkward silence, something's already gone wrong. But it's never too late to bring the conversation back in! Very often, an awkward silence comes because either you weren't listening or they weren't listening, and therefore, you guys have kind of meandered off-topic to where you're at the opposite ends of a football field.

One way to get beyond small talk is to ask open-ended questions. Aim for questions that invite people to tell stories, rather than give bland, one-word answers. When small talk stalls out, it's often due to a phenomenon we call "mirroring." Mirroring happens when we subconsciously smile or frown along with the speaker, as well as imitate body posture or attitude about the topic. In our attempts to be polite, we often answer people's questions directly, repeat their observations, or just plainly agree with whatever they say. A way to break the boring-conversation mirror is to skip over the expected response and go somewhere next-level. For example, if someone asks you, "How was your flight? You can always reply it with I'd be more intrigued by an airline where your ticket price was based on your body weight and IQ", instead of the same old response.

1)

According to the passage, what is the conversation mirror?

- i) When both the participants are not interested in the conversation but continue to talk
- ii) When a person subconsciously imitates the speaker
- iii) When the conversation is of interest to both the participants
- iv) When a speaker subconsciously wanders off a conversation

2)

What has the author suggested to do, in order to go beyond small talk?

- Ask open-ended questions
- Start imitating the speaker
- Start going off-topic
- Pause the conversation for a short time

3)

What does the author mean by "By the time that you're thirsty, you're already dehydrated?"

- He means that by the time you get to know about the fault, the damage has already been done.
- ii) He means that awkward silence in a conversation comes because people go off-topic.
- iii) He means that sometimes it is not possible to solve a problem.
- iv) He means that it's never too late to renew a conversation.

4)

What is the meaning of the word "meandered" in context of the passage?

- Picked
- Suggested
- Drifted
- Spoken

4)

The conditions to get 100% refund on cancellation of air tickets booked with FlyFair airlines are as follows. The customer must

- have booked the ticket at least seven days before the scheduled departure;



have applied for ticket cancellation at least 48 hours before the scheduled departure;

have purchased a refundable ticket.

However, if a customer

fulfils all other conditions except (1), 40% of the total fare should be refunded. else no refund should be given;

fulfils all other conditions except (2) but has applied for ticket cancellation at least 24 hours before the scheduled departure, 20% of the total fare should be refunded, else no refund should be given;

fulfils all other conditions except (3), no refund should be given;

does not fulfil two or more of the conditions stated above, no refund should be given.

**(The ticket cancellation request is presented at 6 PM on June 27, 2017.)**

1)

Susan booked a refundable air ticket on June 15, 2017. Her flight is scheduled to depart from New York on June 28, 2017 at 6 PM. She wants to cancel the ticket as she needs to attend an urgent client meeting. How much refund should the customer get?

i)The customer should get 100% refund.

ii)The customer should get 40% refund.

iii)The customer should get 20% refund.

iv)The customer should not get any refund.

v)Insufficient data

2)

Zen booked a refundable air ticket on June 25, 2017. His flight is scheduled to depart from Dallas airport at 10 PM on July 15, 2017. He wants to cancel the ticket because of change in his travel plans. How much refund should the customer get?

i)The customer should get 100% refund.

ii)The customer should get 40% refund.

iii)The customer should get 20% refund.

iv)The customer should not get any refund.

v)Insufficient data

5)

The conditions to shortlist a candidate for an interview for the job role of a sales manager in a pharmaceutical company are as follows.

The candidate must

hold a Bachelor's degree in science with a score of at least 60%;

be a high school graduate with a score of at least 70%;

not be more than 25 years of age as of January 1, 2015;

have worked as a sales executive for at least 1 year in the pharmaceutical industry;

possess a valid driver's license.

a). However, in case of a candidate who

b). fulfils all other conditions except (1) but has a Bachelor's degree in commerce with a score of at least 65%, s/he should be waitlisted for the interview;

- b. fulfills all other conditions except (4) but has at least 6 months of work experience as a sales executive in the healthcare sector, s./he should be referred to the Senior Manager, Sales;
- c. fulfils all other conditiond except (5) but has applied for one s/he shpuld be referred to the Manager, Human Resource Development (HRD)

**(The case is presented on January 30, 2015.)**

1)

David was born on July 12, 1991. He scored 72% in his high school examinations. He completed his Bachelor's degree in commerce with a score of 67%. He has a driving license that expires on July 23, 2015. He worked with Medicines Pvt. Ltd. as a pharmaceutical sales executive from November, 2013 to December, 2014. Should the given candidate be shortlisted for the interview?

- i)The candidate should be shortlisted for the interview
  - ii)The candidate should be waitlisted for the interview
  - iii)The candidate should be referred to the Senior Manager, Sales.
  - iv)The candidate should be referred to the Manager, HRD
- Insufficient data

2)

Sonya holds a Bachelor's degree in Science (Zoology) where she scored an aggregate of 85%. She secured a score of 70% in her high school examinations. She was born on April 30,1992. She has a work experience of 1.5 years as a sales executive in a company that sells muscle pain-relief ointments. She has a driver's license that expires on February 15, 2015. She has already applied for renewal of the same. Should the given candidate be shortlisted for the interview?

- i)The candidate should be shortlisted for the interview
  - ii)The candidate should be waitlisted for the interview
  - iii)The candidate should be referred to the Senior Manager, Sales.
  - iv)The candidate should be referred to the Manager, HRD
- Insufficient data

**6)**

ShopEx.com charges a shipping fee of \$30 to deliver products to Location Y. However, a customer can get free shipping to Location Y if s/he meets the following criteria. The customer must

- a) have a gold membership of the e-store. The gold membership is valid for a period of one year from the date of subscription or last renewal;
- have opted for delivery in 4-8 business days of placing the order;
- have ordered products worth at least \$200.

However, if a customer

fulfils all other conditions except (2) but has opted for delivery in 1-3 business days, s/he should be charged a shipping fee of \$20;

fulfils all other conditions except (3) but has ordered ONLY baby care products worth at least \$150, s/he should be charged a shipping fee of \$15;

**(This order is placed on February 01, 2018.)**

1)

Steve has ordered products worth \$220 on ShopEx.com and has opted for delivery in 1-3 business days. He does not have a gold membership of the

e-store but intends to subscribe to it soon. Should the order be shipped for free to this customer?

- i)The order should be shipped for free.
- ii)A shipping fee of \$30 should be charged.

- iii) A shipping fee of \$20 should be charged.
- iv) A shipping fee of \$15 should be charged.
- v) Insufficient data

2)

Sophie subscribed to the gold membership of ShopEx.com on November 22, 2017. She has now ordered baby products worth \$220 and has opted for delivery in 4-8 business days. Should the order be shipped for free to this customer?

- i) The order should be shipped for free.
- ii) A shipping fee of \$30 should be charged.
- iii) A shipping fee of \$20 should be charged.
- iv) A shipping fee of \$15 should be charged.
- v) Insufficient data

7)

The conditions to shortlist candidates for the position of a private security officer are as follows. The applicant must

- not be more than 30 years of age;
- be a high school graduate;
- have cleared the pre-employment entrance test with a score of at least 70%;
- have cleared the pre-employment screening process;
- possess a valid driving license.

However, if an applicant

fulfils all other conditions except (2) but commits to complete the high school diploma within six months of hire, s/he should be referred to the Manager, Human Resources;

fulfils all other conditions except (3) but scored at least 65% in the pre-employment entrance test and is trained in any form of self-defense, s/he should be referred to the Senior Manager, Security Operations;

fulfils all other conditions except (5) but has applied for one, s/he should be referred to the Assistant Manager, Recruitment

**(This case is presented on August 30, 2018)**

1)

Mike was born on May 15, 1986. He dropped his high-school examination to join a school that taught various fighting techniques. He is now a trained fighter and teaches self-defense techniques at a school. He has cleared the pre-employment entrance test with a score of 80% and has also passed the pre-employment screening process. He has committed to complete his high school diploma within six months of hiring. His driving license expires on February 28, 2025. Should the applicant be selected?

- i) The applicant should be selected.
- ii) The applicant should be referred to the Senior Manager, Security Operations.
- iii) The applicant should be referred to the Assistant Manager, Recruitment.
- iv) The applicant should not be selected.
- v) Invalid data

2)

Tim was born on January 01, 1995. He completed his high school last year with a score of 65%. He cleared his driving test last month and hopes to receive his driving license in a fortnight. He has scored 75% in the pre-employment entrance test and has also cleared the pre-employment screening test conducted by the regulatory agency. Should the applicant be selected?

- i) The applicant should be selected.

- ii)The applicant should be referred to the Senior Manager, Security Operations.
- iii)The applicant should be referred to the Assistant Manager, Recruitment.
- iv)The applicant should not be selected.
- v)Invalid data

8)

The world production of sugar has been reported to be very scarce as compared to the global sales for four years. The demand for sugar is extremely high but the supply has been low for quite some time now. This could be because of the awful weather and also because some chief sugar growers have switched to high-priced jute. The price of sugar has soared in response to the phenomena of the demand supply disparity. The price of sugar now equals that of jute.

- i)Sugar production is profitable only when the price of sugar is as high as that of jute.
- ii)The sugar growers who had shifted to the higher priced jute. will now move back to producing sugar.
- iii)Demand for jute was higher than the demand for sugar. which made sugar growers shift their production.
- iv)If there continues to be a shortfall in the production of sugar. the price of sugar may even exceed that of jute.

9)

Albert Einstein was a German scientist who came up with many discoveries and theories. The Theory of Relativity was his most important contribution to the world of science. This theory holds that measurements of space and time differ based on different conditions. The formula he developed explains how energy is related to mass. This theory changed how scientists looked at the world and led to many modern inventions, including nuclear energy and the nuclear bomb.

Einstein was born in Ulm, Germany in March, 1879, but lived most of his childhood in the city of Munich. He had speech problems as a child, and his parents didn't think he was very intelligent. He didn't talk until he was four years old and didn't read until he was nine. He said that he wasn't enamored with school but loved reading and learning on his own. Even when he was an adult, he was quite disorganized and forgot appointments. His father owned an electronics shop. so Albert learned all about science and electronics from him. He first became interested in science when his father gave him a compass.

Albert Einstein laid much of the foundation for modern physics. He came up with the concept that light is made up of particles called photons. Most scientists then didn't agree, but later experiments in 1919 proved him right. He was awarded the Nobel Prize for Physics in 1921. Together with another scientist, Satyendra Bose, Einstein discovered another state of matter- the Bose-Einstein condensate. in addition to solid, liquid and gas. Today this discovery is used in lasers and superconductors. Einstein did not work directly on inventing the atomic bomb, but his name is closely associated with the bomb. This is because his scientific work and discoveries contributed majorly to the bomb's development. He received a love of music from his mother and said that if he were not a physicist, he would have been a musician. He loved to play the violin and piano and said that he felt great joy in doing that.

Albert Einstein is considered the greatest scientist of all time. His brain has been preserved by scientists so that they can examine it and find out why he was such a genius. It is said to be different from the brains of most other people.

1)

What can be inferred from the passage?

- i) Satyendra Bose contributed more in the discovery of the Bose-Einstein condensate.
- ii) Einstein's father played a major role in introducing him to the world of science.
- iii) Most of the scientists did not approve of Einstein because he was disorganized and forgot appointments.
- iv) Einstein's discoveries and theories were mostly used for destructive purposes.

2)

What problem followed Einstein even to his adulthood?

- i) His inability to write
- ii) His inability to play the violin
- iii) His inability to read
- iv) His tendency to stay disorganized and forget things

3)

What is the meaning of the word “enamored” in context of the passage?

- i) Obsessed
- ii) Finished
- iii) Pleased
- iv) Familiarized

10)

The conditions for allotment of on-campus dormitories to high school graduates who are seeking admission into a university are as follows.

The student's permanent residence should be at a distance of 25 miles or more from the university campus;

The student should submit a Character and Fitness Certificate provided by the high school;

The student should be willing to pay a non-refundable housing deposit of \$400 to the University Housing Office;

A student who has secured at least a grade of 'B' in the final year of the high school should be allotted a single occupancy room. All candidates who have scored a grade below 'B' but above 'F', should be allotted a double occupancy room. Typical grades (from highest to lowest) are A, B, C, D, and F, where F stands for 'Fail'.

However, in case of a student who

fulfills all other criteria except (2) but can submit it within 7 days from the starting date of allotment, s/he should be referred to the Secretary, Student Welfare Board;

fulfills all other criteria except (4) but scored a grade above 'F' and has co-curricular achievements, s/he should be allotted a single occupancy room.

**(The starting date of allotment is January 15, 2018.)**

1)

Nancy scored a grade of 'B' in her final year of high school. She did not face any disciplinary charges in high school and also has a character and fitness certificate from the concerned high school authority. She is willing to pay a non-refundable housing deposit of \$400 to the University Housing Office. She has won

many Lawn Tennis events and has participated in various competitions in the high school. She resides in the outskirts of the city where her campus is located. Should the student be allotted an accommodation?

- i)The student should be allotted a single occupancy room
- ii)The student should be allotted a double occupancy room
- iii)The student should be referred to the Secretary, Student Welfare Board
- iv)The student should NOT be allotted a dormitory
- v)Insufficient data

2)

Katie's permanent residence is 40 miles away from the university campus. She scored a grade of 'C' in her final year of high school. She faced a disciplinary charge a year back in her high school but can submit a character and fitness certificate that shows that she had improved over a period of one year. She doesn't have the certificate currently but can submit it by January 17, 2018. She is willing to pay the required non-refundable security deposit to the University Housing Office. Should the student be allotted an accommodation?

- i)The student should be allotted a single occupancy room
- ii)The student should be allotted a double occupancy room
- iii)The student should be referred to the Secretary, Student Welfare Board
- iv)The student should NOT be allotted a dormitory
- v)Insufficient data

What makes a classical dance different from a folk dance? A classical art evolves over a long period of time. It is not created overnight. Its technique is structured and stylized, predetermined and codified, and its projection conforms to a particular pattern. Emotion is not impulsive but is ruled by the intellect. The technique can only be imbibed through instruction. It has also stood the test of time.

It is dance that stems from the inspiration and the work of the individual rather than the collective. It is dance that not only affords appeal to the senses but also stimulates the intelligence of the performer and spectator alike.

On the other hand, folk dances express the mood of the moment, the celebration of a harvest or a festival. It is usually a group effort and often the performers can incubate the technique in less time and it is comparatively simpler. Folk dances all over the world have become more sophisticated, more structured and more complicated with elaborate group choreography, but its projection is spontaneous and safely dedicated or driven by literary instruction like, classical dance.

Classical dance in India is particularly characterized by an oral tradition of instruction from the guru or teacher to the sishya or disciple known as guru sishya

A popular dance from the Bollywood dance or film dance which is an amalgam of classical, folk, popular dance, western movement etc.

1)

According to the passage, what is the one characteristic that differentiates Bollywood dance from Classical dance?

- i)Evolution
- ii)Difficulty
- iii)Long-lasting
- iv)Appeal

2)

Why is Bollywood dance form known as an ‘amalgam’ of dances?

- i)It includes various dances, yet primarily focuses on one dance.
- ii)It has elements of various types of dances from all over the world
- iii)It is a mixture of two dance forms with elements taken from each dance
- iv)The technique of Bollywood dance originates from classical and folk dance

3)

What has been highlighted as a key characteristic of the classical art form?

- i)More complicated than other dance forms and takes years to master
- ii)Handed down from master to disciple over many centuries.
- iii)Requires literary instruction unlike other dance forms.
- iv)Is ruled more by intellect than emotion

4)

What can be inferred as a reason of folk dances coming into existence?

- i)Since classical art forms were too complicated for the ordinary person to appreciate and enjoy
- ii)As a means of expression of happiness for occasions on a local community level
- iii)Since classical dances are more complicated to master, folk dances evolved as a means of self-expression
- iv)Classical dances are mostly solo performances and folk dances evolved as a means of celebration in a group

Two neighbours were engrossed in a serious discussion. One exclaimed how he found surveying animals to be pain, while the other claimed how he could see objects in space billions of light years away. This banter among friends Steven Longmore, the astronomer, and Serge Wich, the ecologist led to an unusual partnership to adopt tools originally developed to detect stars in the sky to monitor animals on the ground. They developed a system of drones and special cameras that can record rare and endangered species on the ground, day or night.

Keeping track of elusive animals, especially those that are endangered. Isn't an easy task. First, it takes time and money to conduct manual counts on the ground or to shoot photos from planes in the sky. Even though with video, cheaper drones and software, identifying animals has become more efficient, however, cameras made for daylight can miss animals or poachers moving through the forest. The devices don't work at night. This is where infrared cameras come into play. What do animals and stars have in common? They both emit heat. And much like stars, every species has a recognizable thermal footprint. They look like really bright, shining objects in the infrared footage. In this way, the software used to look for stars and galaxies in space can be used to seek out thermal footprints and the animals that produce them. To create a reference library of different animals in various environment the team is involving with a park and zoo to film and photograph animals. With these thermal images, they'll be able to better set up their equipment to identify target species in ecosystems around the world.

1)

What is the meaning of the word “elusive” in context of the passage?

- Difficult to catch
- Dangerous
- Lost
- Exotic

In 2001, New York City was hit with a \$14,000,000 judgment because a subway train didn't stop in time, to avoid hitting someone, who was lying on the tracks, apparently trying to commit suicide. That is just the kind of shocking verdict that people dedicated to reforming the U.S. legal system, have been talking about for years. Irrational verdicts are merely the beginning of the problem, though.

The fear of possible lawsuits has actually changed the culture of America. Talk to teachers. Keeping discipline is hard when students can threaten that any decision might violate their presumed rights. Visit a playground and look for a seesaw. They are rapidly disappearing, going the way of merry-go-rounds, diving boards, and other joys of childhood. No court ever held that seesaws are too dangerous, but who will protect the school board if one youngster gets off too soon and the other child breaks an ankle?

This sue-for-anything philosophy was created in the 1960s. When judges and legislators woke up to abuses of racism and other discrimination that had gone unchecked for centuries. When the bad values of judges and legislators were finally exposed, they decided to create a neutral system in which no one in authority would assert any values. Give people the right to sue for anything, they thought and then they can't blame us for imposing bad values. Pretty soon, every angry person or clever lawyer learned how to demand new "rights", but these new rights ended up taking away others rights.

Trial lawyers justify ruinous claims like a \$78,000,000 verdict in Arkansas against a nursing home for the neglect of a 93 years old resident on the basis that it will teach the defendant a lesson not to do it next time. The money, though, comes from you and me, through rapidly rising costs and health insurance premiums. The most important accountability, which the trial lawyers never propose, is to remove the licenses of inept doctors or nursing homes so that they can't hurt someone else. Trial lawyers, of course, don't make such money if the focus is on better health care, rather than huge verdicts. A society needs red lights and green lights. The legal system is badly broken. Yet, few efforts at reform have gotten very far.

1)

Why are school authorities removing swings from playgrounds?

Children are scared to play and hurt themselves

ii) Strong likelihood of lawsuit in case a child is injured

iii) Lack of responsibility on behalf of teachers has led to this move

To adhere to the law passed for protection of children

2)

What can be a suitable title for the passage?

Positive outcome of law in America

ii) Misuse of law has shaken faith of Americans

iii) Unlawful practice of lawsuits

Society suffers with the ever-changing legal system

3)

Which of the given statement holds true for the neutral system?

Acts of discrimination were severely punished

ii) Defendants were responsible for poor functioning of the system

iii) Right to sue for anything was provided to people

iv) Authorities were denied the power to give verdicts

4)

Why are adequate reforms not being taken by lawyers?

They care about bringing justice in the existing legal system

ii) Introduction of reforms will result in irrational verdicts

iii) Laws in the legal system cannot be modified or changed

iv) Earnings of lawyers will suffer to a great extent



1)

The conditions for selecting players for a tennis training squad are as follows. The player must be a member of a club affiliated to the National Tennis Authority;

- have played both the Tennis Junior (Closed) and Tennis Junior (Open) tournament in the past 12 months;
- have paid any outstanding debt to the National Tennis Authority in full by March 31, 2018;
- have a medical certificate stating that the player is medically fit for the training.

However, in case of a player who

- fulfills all other conditions except (2) but has won any of the Tennis Junior tournament (Closed or Open) in the past 12 months, s/he should be referred to the Assistant Coach, Training and Development.
- fulfills all other conditions except (3) but pays the debt along with a fine of \$50 at least by April 15, 2018, s/he should be referred to the Manager, Training and Development.

1)

Roger is a member of the PSL Tennis Club that is affiliated to the National Tennis Authority. He paid the entire pending fees to the National Tennis Authority on March 25, 2018. He played the Tennis Junior (Closed) tournament two months back and won it. He underwent a medical fitness test three days back and was declared medically fit. He has a certificate for the same. He couldn't participate in the Tennis Junior (Open) tournament that was held on January 19, 2018. Should the person be selected?

- i)The player must be selected for the tennis training squad
- ii)The player must be referred to the Assistant Coach, Training and Development
- iii)The player must be referred to the Manager, Training and Development
- iv)The player must NOT be selected for the tennis
- v)Invalid data

2)

Nikki is a full paid-up member of a club affiliated to the National Tennis Authority. She participated in the Tennis Junior (Closed) and Tennis Junior (Open) tournaments in 2018. However, she injured her ankle during the Tennis Junior (Open) tournament and has not received her medical fitness certificate. She doesn't have any outstanding debt toward the National Tennis Authority. Should the person be selected?

- i)The player must be selected for the tennis training squad
- ii)The player must be referred to the Assistant Coach, Training and Development
- iii)The player must be referred to the Manager, Training and Development
- iv)The player must NOT be selected for the tennis
- v)Invalid data

2)

People might know about Marie Curie for her work in radiation, but only a few might be aware that she was also a friend of Albert Einstein. Marie Curie was born in Warsaw, Poland on November 7, 1867,

where she grew up with her parents and four other children in the family. She learned how to read and write at a very young age. She loved to learn and had always known she wanted to be a scientist.

In 1894, she married Pierre Curie. Marriage and motherhood did not stop Marie from her work and research as a scientist. She became interested in x-rays which were recently discovered. During World War I, she helped equip the ambulances with x-ray equipment, which she herself drove to the front lines of the battlefield. Her husband, Pierre, joined Marie in her experiments. At a time when women were oppressed, she took the plunge regardless of what other people had to say. She was often ridiculed for taking credit for her husband's work. But that never bothered the Curies. They went about their day, engrossed in what they had set out to do. They ended up discovering two new elements.

Marie named one of the elements polonium after her home country, Poland, and the other she named it radium because it gave off so many strong rays. Marie and Pierre Curie came up with the new term 'radioactivity' too, used to describe emissions from radioactive substances. In 1903, the Nobel Prize in Physics was awarded to both scientists for their work in radiation, and Marie was also the first woman in history to be awarded the Nobel Prize. She did not stop there though, because in 1911 Marie won another Nobel Prize, this time in chemistry, for discovering the two elements, polonium, and radium. She was not only the first woman but also the first person ever to be bestowed with two Nobel Prizes. This made her very famous and scientists all over the world wanted to study radioactivity with her.

1)

How did Curie help during World War I?

- i) By discovering radium
- ii) By helping in women emancipation and empowerment
- iii) By teaching the armed forces about radioactivity
- iv) By equipping the ambulances with the x-ray equipment

2)

What is the meaning of the word 'plunge' in context of the passage?

- i) Jump
- ii) Dip
- iii) Dive
- iv) Venture

3)

Why did people ridicule Marie?

- i) Because they thought she was taking credit for her husband's work
- ii) Because many of her experiments failed
- iii) Because she never got any credit for her work
- iv) Because they thought that she did not help enough during world war I

4)

What can be said about Marie Curie?

- i) She liked to work on the front lines of the battlefield
- ii) She did not let what people said oppress her
- iii) She didn't have many friends
- iv) She was inspired to work as a scientist after her marriage

3)

The criteria to select a team of dancers for participating in a dance competition are as follows. The team must

- have 5 to 10 dancers in the group;
- have all dancers between the age of 11 and 17 years;
- submit an original dance recording of a duration of at most 7 minutes;
- have all members of the same school;
- have one faculty member accompanying them.

However, in case of a team that

fulfills all other conditions except (3) but has participated in the same competition held before, it should be referred to the Manager, Organizing Committee.

fulfills all other conditions except (5) but has a group leader from among the team members, and s/he is between the age of 15 and 17 years, it should be referred to the Secretary, Organizing Committee.

1)

A team consists of 10 dancers of PriceWater International School, Delhi. Five of them are 14 years of age, two of them are 15 years of age and three of them are 16 years of age. They submitted a 7-minute recording of their originally choreographed dance to the panel a few days back. Their dance teacher couldn't accompany them and hence they are accompanied by their arts teacher. Should the team be allowed to participate?

- i)The team must be allowed to participate
- ii)The team must NOT be allowed to participate
- iii)The team must be referred to the Manager, Organizing Committee
- iv)The team must be referred to the Secretary, Organizing Committee
- v)Insufficient data

2)

A team consists of 9 dancers of IPY International School, Delhi. The average age of all the dancers is 15 years. This team had won this dance competition the last year. They have submitted a 5-minute recording of their originally choreographed dance to the panel. The group leader is one amongst these 9 dancers and she is 16 years of age. Should the team be allowed to participate?

- i)The team must be allowed to participate
- ii)The team must NOT be allowed to participate
- iii)The team must be referred to the Manager, Organizing Committee
- iv)The team must be referred to the Secretary, Organizing Committee
- v)Insufficient data

4)

The criteria for allotment of on-campus residential apartments to faculty members of a university are as follows. The faculty member must

- have been a permanent employee of the university for a minimum of three years;
- reside at a distance of 20 miles or more from the university campus;
- be willing to pay a refundable housing deposit of \$1,000 before allotment;
- not be involved in any case related to misconduct inside or outside the university campus.

However, if the candidate

fulfils all conditions except (1) but has been a visiting faculty at the university for a minimum of five years, s/he should be referred to the Director, Faculty Housing;

fulfils all conditions except (2) but resides at a distance of minimum 15 miles and does not own any vehicle, s/he should be waitlisted;

fulfils all conditions except (3) but is willing to pay \$500 before the allotment and the remaining within two days of allotment, s/he should be referred to the Accounts Head, Faculty Housing.

**(The starting date of allotment is July 01, 2018)**

1)

Alex teaches English at the university. He was hired as a permanent employee on March 15, 2014. He has not been involved in any case of misconduct, inside or outside the university campus. He resides in the outskirts of the city which is 25 miles away from the university campus. He is willing to pay \$500 at the time of allotment and the balance by July 03, 2018. Should the faculty member be allotted an apartment?

- i)The faculty member should be allotted an apartment.
- ii)The faculty member should be referred to the Accounts Head, Faculty Housing.
- iii)The faculty member should be referred to the Director, Faculty Housing.
- iv)The faculty member should not be allotted an apartment.
- v)Insufficient data

2)

David joined the university as a permanent faculty in the department of history on August 15, 2012. He has an impeccable teaching record and has not been involved in any kind of misconduct inside or outside the university campus. His permanent residence is 22 miles away from the university campus and he travels to the campus every day in his own car. He is willing to pay a refundable housing deposit of \$1,000 before allotment. Should the faculty member be allotted an apartment?

- i)The faculty member should be allotted an apartment.
- ii)The faculty member should be referred to the Accounts Head, Faculty Housing.
- iii)The faculty member should be referred to the Director, Faculty Housing.
- iv)The faculty member should not be allotted an apartment.
- v)Insufficient data

5)

Many people listen to music while they're carrying out a task, whether they're studying for an exam, driving a vehicle or even reading a book. Many of these people argue that background music helps them focus. Why, though? When you think about it, that doesn't make much sense. Why would having two things to concentrate on, make you more focused, not less? Some people even go so far as to say that not having music on, is more distracting. So what's going on there?

Why would music help us concentrate, though? One argument is to do with attention. For all its amazing abilities, the brain hasn't really evolved to take in abstract information or spend prolonged periods thinking about one thing. We seem to have two attention systems: a conscious one that enables us to direct our focus towards things we know we want to concentrate on and an unconscious one that shifts attention towards anything our senses pick up that might be significant. The unconscious one is simpler, more fundamental, and linked to emotional processing rather than higher reasoning. It also operates faster. So when you hear a noise when you're alone at home, you're paying attention to it long before you're able to work out what it might have been. You can't help it.

The trouble is, while our conscious attention is focused on the task in hand, the unconscious attention system doesn't shut down; it's still very much online. scanning for anything important in our peripheral senses. And if what we're doing is unpleasant or dull and were already trying to force our attention to stay fixed on it. the unconscious attention system is even more potent. This means that a distraction doesn't need to be as stimulating to divert our attention on to something else.

Have you ever worked in an open-plan office and been working on a very critical task, only to be driven slowly mad by a co-worker continuously sniffing, or sipping their coffee, or clipping their nails? Something quite innocuous suddenly becomes much more infuriating when you're trying to work on something your brain doesn't necessarily enjoy. Music is a very useful tool in such situations. It provides non-invasive noise and pleasurable feelings, to effectively neutralize the unconscious attention system's ability to distract us. It's much like giving small children a new toy to play with while you're trying to get some work done without them disturbing you.

1)

What is the meaning of the word "innocuous" in context of the passage?

- i) Unconscious
- ii) Irritating
- iii) Harmless
- iv) Small

2)

How does music increase effectiveness while working?

- i) It helps in increasing our attention span
- ii) Having two things to concentrate on, helps people focus more.
- iii) It makes our tasks less boring
- iv) It neutralizes the unconscious attention system's ability to distract us.

3)

Why is it difficult to perform tasks even when your conscious attention is focused?

- i) Because the tasks are mundane.
- ii) Because the conscious attention system doesn't stimulate the brain enough to stay focused.
- iii) Because the conscious attention system simultaneously focusses on peripheral senses.
- iv) Because the unconscious attention system doesn't shut down.

4)

Between which of the two has an analogy been made in the passage?

- i) Children's toys and music
- ii) Music and driving a vehicle
- iii) Music and an employee sipping coffee
- iv) Children's toys and an employee sipping coffee

6)

Isaac Newton is mostly known for his discoveries related to gravity, yet he was also a pioneer in research on light. He identified the seven colors of a rainbow that are created by reflection and refraction, which is the bending of light through clear surfaces. The beam of the white light separates into seven colors as they enter millions of raindrops in the sky.

Light travels at a certain speed, but the colors of light slow down at different speeds as they enter the raindrop. Light from the Sun then exits each raindrop and depending on the angle it entered, only a single color exits the raindrop. This takes place with many raindrops simultaneously, and the resulting effect is the different stripes and colors of the rainbow. Psychologist Roland Fleming from the Justus Liebig University Giessen in Germany studies how we perceive objects around us. He says, "What we call color is something that's perceived by the mind. Of course, there's a physical origin of that, which is the

physical spectrum of different wavelengths of light. But our eyes and brains interpret these and create our perceptions after a lot of processing."

A rainbow can be viewed only when the sun is behind the person looking at the sky, and the rain is in the front of the person. It will only become visible at an angle of about 40° from the horizon. Sometimes, a second rainbow may be seen directly above the first rainbow, but the colors would be in the reverse order. There have also been rare sightings of a third or fourth rainbow in the sky. The rainbows are not physical objects and cannot be touched.

If two people view a rainbow from different angles or distances, they will see different versions of it. It may be brighter or seem to be fading depending on their location relative to the rainbow. Finally, there are two other kinds of rainbows: moon bows and fog bows. A moon bow is a rare nighttime rainbow produced by the light from the moon. The cloud and fog droplets produce a fogbow. They are very faint and the colors are hardly visible, but they are much larger and wider than a regular rainbow.

1)

What is the psychologist, Ronald Fleming's view on colors?

- i) We distinguish colors as they are interpreted by our minds
- ii) We perceive colors to be of different wavelengths while actually, they are not
- iii) Our eyes and brains interpret colors differently
- iv) There is no physical origin of colors

2)

When there is a second rainbow present above the first, how is it different from the first?

- i) The colors of the second rainbow are partially visible
- ii) The colors of the second rainbow are in the reverse order
- iii) The colors of the rainbow appear brighter
- iv) The second rainbow cannot be viewed from the same angle as the first

3)

In which rainbow(s) is the visibility of colors limited?

- i) A fogbow
- ii) A moon bow
- iii) A rainbow
- iv) Both fogbow and moon bow

4)

According to Newton, how were the colors of the rainbow created?

- i) Through reflection and refraction of light by raindrops
- ii) Through refraction of moon lights by raindrops
- iii) Through refraction of light by fog droplets
- iv) Through reflection of moon lights by clouds

7)

The criteria to contest for the post of president in the student council elections at Prestige High School are as follows. The candidate must

- be a Grade 10 or 11 student;
- have a minimum attendance of 85% in the previous academic session;
- have scored at least a grade of 'B' in the previous academic session and not have failing grades in any of the subjects. Typical grades (from highest to lowest) are A, B, C, D, and F, where F stands for 'Fail'.

have a clear disciplinary record for a minimum of previous three years.

However, if a candidate

fulfills all other conditions except (2) but has a minimum attendance of 75% and has rendered a minimum of 30 hours of community service during the last academic session, s/he should be referred to the Director, Election Commission;

fulfills all other conditions except (4) but has a clear disciplinary record for the last one year and a recommendation from the class teacher, s/he should be waitlisted.

**(The elections will be conducted on January 10, 2018)**

1)

Tim is a grade 10 student at the Prestige high school. He scored a grade of 'A' in his last academic session. He has had a clear disciplinary record throughout his tenure in the school. He missed school for many days due to ill- health during the last academic session and clocked only 78% attendance. He rendered 35 hours of community service after joining back to earn the required credits to pass his class. Should the candidate be allowed to contest for the election?

- i)The candidate should be allowed to contest the election
- ii)The candidate should be referred to the Director, Election Commission
- iii)The candidate should be waitlisted
- iv)The candidate should not be allowed to contest the election
- v)Insufficient data

2)

Lara studies in Grade 11 at the Prestige High School. She is a brilliant student and has never got a failing grade in any of the subjects. She had 96% attendance in the last academic year. She has never been subjected to any disciplinary action by the high school authorities. Should the candidate be allowed to contest for the election?

- i)The candidate should be allowed to contest the election
- ii)The candidate should be referred to the Director, Election Commission
- iii)The candidate should be waitlisted
- iv)The candidate should not be allowed to contest the election
- v)Insufficient data

8)

The conditions for allotment of new flats by the housing authority in Florida are as follows. The applicant must

- submit the declaration of domicile in the State of Florida;
- be employed or self-employed for at least 5 years in the state of Florida;
- be ready to pay the total cost of the flat in a period of 10 years;
- not be less than 30 years of age as of December 31, 2017.

However, in case of an applicant who

fulfills all other criteria except (1) but has been living in Florida for more than 10 years, s/he should be referred to the Chairman of the housing authority;

fulfills all other criteria except (3) but is an army veteran or the son/daughter/husband/wife of an army veteran, s/he should be referred to the Vice-Chairman of the housing authority;

fulfills all other criteria except (4) but is more than 27 years of age as of December 31, 2017, s/he should be waitlisted.

1)

Jimmy is an army veteran's son and was born in 1989. He has a declaration of domicile in the state of Florida and can submit the same. He started a consultancy firm in Florida 7 years ago and has a stable income. He can pay the total cost of the flat in 8 years. Should the given applicant be allotted a new flat?

- i)The applicant must be allotted a new flat
- ii)The applicant must be referred to the Chairman, Housing Authority
- iii)The applicant must be referred to the Vice Chairman, Housing Authority
- iv)The applicant must be waitlisted
- v)Insufficient data

2)

Mona was born in Texas on June 5,1973. She has a declaration of domicile in the state of Florida and can submit the same. Her family moved to Arizona and she completed her high school there. She is currently working in the administrative department of a hospital in Florida. She has been working in this hospital for over 6 years. She can pay the total cost of the flat in 5 years. Should the given applicant be allotted a new flat?

- i)The applicant must be allotted a new flat
- ii)The applicant must be referred to the Chairman, Housing Authority
- iii)The applicant must be referred to the Vice Chairman, Housing Authority
- iv)The applicant must be waitlisted
- v)Insufficient data

34. Select the word or phrase which best expresses the meaning of the given word.

Insidious

Insightful

**Sinister**

Sincere

Naïve

35. In a chemical manufacturing unit, six sirens begin going off together and then go off at intervals of 2, 4, 6, 8, 10 and 12 seconds. How many times do they go off together in 30 minutes?

**15 times**

42 times

16 times

30 times

36. In how many ways can the letters of the “SCHEDULE” be arranged?



40,320

10,080

**20,160**

16,560

37. At what rate of interest per annum will an amount of money triple itself in 20 years?

**10%**

20%

13%

15%

38. Find the annual interest on a sum of Rs.42,000 (payable in year 2) at 6% rate of interest.

Rs.36,960

Rs. 5,040

**Rs. 39,480**

Rs. 2,520







