Ques. If the sum of two numbers is 55 and the H.C.F. and L.C.M of these numbers are 5 and 120 respectively, then the sum of the reciprocals of the numbers is equal to:

Op 1: 55/601 Op 2: 601/55 Op 3: 11/120 Op 4: 120/11

Op 5:

Correct Op: 3

Ques. Three different containers contain 496 litres, 403 litres and 713 litres of mixtures of milk and water respectively. What biggest measure can measure all the different quantities exactly?

Op 1: 1 litre Op 2: 7 litre Op 3: 31 litre

Op 4: 41 litre

Op 5:

Correct Op: 3

Ques. Six bells commence tolling together and toll at intervals of 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?

Op 1: 4

Op 2: 10

Op 3: 15

Op 4: 16

Op 5:

Correct Op: 4

Ques. Four different electronic devices make a beep after every 30 minutes, 1 hour, 3/2 hour and 1 hour 45 minutes respectively. All the devices beeped together at 12 noon. They will again beep together at:

Op 1: 12 midnight

Op 2: 3 a.m.

```
Op 3: 6 a.m.
Op 4: 9 a.m.
Op 5:
Correct Op: 4
Ques. The number of prime factors of (3 \times 5)^{12} (2 \times 7)^{10} (10)^{25} is:
Op 1: 47
Op 2: 60
Op 3: 72
Op 4: None of these
Op 5:
Correct Op: 4
Ques. What least value must be assigned to * so that the number 63576*2 is
divisible by 8?
Op 1: 1
Op 2: 2
Op 3: 3
Op 4: 4
Op 5:
Correct Op: 3
Ques. Which of the following numbers is exactly divisible by 24?
```

Op 1: 35718 Op 2: 63810 Op 3: 537804

Op 4: 3125736

Op 5:

Correct Op: 4

Ques. The number nearest to 15207, which is divisible by 467, is:

Op 1: 14342 Op 2: 15211 Op 3: 14944 Op 4: 15411

Op 5: None of these

Correct Op: 4

Ques. The smallest number, which is a perfect square and contains 7936 as a factor is:

Op 1: 251664 Op 2: 231564 Op 3: 246016 Op 4: 346016

Op 5: None of these

Correct Op: 3

Ques. In a division problem, the divisor is twenty times the quotient and five times the remainder. If remainder is 16, the number will be:

Op 1: 3360 Op 2: 336 Op 3: 1616 Op 4: 20516

Op 5: None of these

Correct Op: 2

Ques. The L.C.M. of two numbers is 4800 and their G.C.M. is 160. If one of the numbers is 480, then the other number is:

Op 1: 1600

Op 2: 1800

Op 3: 2200

Op 4: 2600

Op 5: None of these

Correct Op: 1

Ques. The L.C.M. of two numbers is 140. If their ratio is 2:5, then the numbers

are: Op 1: 28,70 Op 2: 28,7 Op 3: 8,70 Op 4: 8,40 Op 5: None of these Correct Op: 1 Ques. If a number is exactly divisible by 85, then what will be the remainder when the same number is divided by 17? Op 1: 3 Op 2: 1 Op 3: 4 Op 4: 0 Op 5: Correct Op: 4 Ques. The least perfect square number which is exactly divisible by 3, 4, 7, 10 and 12 is: Op 1: 8100 Op 2: 17600 Op 3: 44100 Op 4: None of these Op 5: Correct Op: 3 Ques. (x^n+y^n) is divisible by (x-y): Op 1: for all values of n Op 2: only for even values of n

Op 3: only for odd values of n

Op 4: for no values of n

Op 5:

Correct Op: 4

Ques. The greatest number that will divide 63, 138 and 228 so as to leave the same remainder in each case: Op 1: 15 Op 2: 20 Op 3: 35 Op 4: 40 Op 5: Correct Op : 1
Ques. Find the largest number, smaller than the smallest four-digit number, which when divided by 4,5,6 and 7 leaves a remainder 2 in each case. Op 1: 422 Op 2: 842 Op 3: 12723 Op 4: None of these Op 5: Correct Op : 2
Ques. What is the highest power of 5 that divides $90 \times 80 \times 70 \times 60 \times 50 \times 40 \times 30 \times 20 \times 10$? Op 1: 10 Op 2: 12 Op 3: 14 Op 4: None of these Op 5: Correct Op : 1
Ques. If a and b are natural numbers and a-b is divisible by 3, then a³-b³ is divisible by: Op 1: 3 but not by 9 Op 2: 9 Op 3: 6 Op 4: 27 Op 5:

Ques. What is the greatest positive power of 5 that divides 30! exactly?

Op 1: 5

Op 2: 6

Op 3: 7

Op 4: 8

Op 5:

Correct Op: 3

Ques. In how many ways can a number 6084 be written as a product of two different factors?

Op 1: 27

Op 2: 26

Op 3: 13

Op 4: 14

Op 5:

Correct Op: 3

Ques. What is the smallest four-digit number which when divided by 6, leaves a remainder of 5 and when divided by 5 leaves a remainder of 3?

Op 1: 1043

Op 2: 1073

Op 3: 1103

Op 4: None of these

Op 5:

Correct Op: 4

Ques. P is an integer. P>883. If P-7 is a multiple of 11, then the largest number that will always divide (P+4) (P+15) is:

Op 1: 11

Op 2: 121

Op 3: 242

Op 4: None of these Op 5: Correct Op: 3 Ques. Let C be a positive integer such that C + 7 is divisible by 5. The smallest positive integer n (>2) such that $C + n^2$ is divisible by 5 is: Op 1: 4 Op 2: 5 Op 3: 3 Op 4: Does not exist Op 5: Correct Op: 4 Ques. Four bells begin to toll together and then each one at intervals of 6 s, 7 s, 8 s and 9 s respectively. The number of times they will toll together in the next 2 hr is: Op 1: 14 times Op 2: 15 times Op 3: 13 times Op 4: 11 times Op 5: Correct Op: 1 Ques. The product of two numbers is 16200. If their LCM is 216, find their HCF. Op 1: 75 Op 2: 70 Op 3:80 Op 4: Data inconsistent Op 5:

Ques. There are four prime numbers written in ascending order of magnitude.

Correct Op: 1

The product of first three is 385 and that of last three is 1001. Find the first number.

Op 1: 5

Op 2: 7

Op 3: 11

Op 4: 17

Op 5:

Correct Op: 1

Ques. M and N are two distinct natural numbers. HCF and LCM of M and N are K and L respectively. A is also a natural number, which of the following relations is not possible?

Op 1: K*L=A

Op 2: K*A=L

Op 3: L*A=K

Op 4: None of these

Op 5:

Correct Op: 3

Ques. On dividing a number by 999, the quotient is 366 and the remainder is 103. The number is:

Op 1: 364724

Op 2: 365387

Op 3: 365737

Op 4: 366757

Op 5:

Correct Op: 3

Ques. The difference between two numbers is 1365. When the larger number is divided by the smaller one ,the quotient is 6 and the remainder is 15. The smaller number is:

Op 1: 240

Op 2: 270

Op 3: 295

Op 4: 360

Op 5:

Correct Op: 2

Ques. The ratio of two numbers is 3:4 and their HCF is 4. Their LCM is:

Op 1: 12

Op 2: 16

Op 3: 24

Op 4: 48

Op 5:

Correct Op: 4

Ques. A rectangular courtyard 3.78 meters long and 5.25 meters wide is to be paved exactly with square tiles ,all of the same size. What is the largest size of the tile which could be used for the purpose?

Op 1: 14 cm

Op 2: 21 cm

Op 3: 42 cm

Op 4: None of these

Op 5:

Correct Op: 2

Ques. The least perfect square which is divisible by 3, 4, 5, 6, 8 is:

Op 1: 900

Op 2: 1200

Op 3: 2500

Op 4: 3600

Op 5:

Correct Op: 4

Ques. What will be obtained if 8 is subtracted from the HCF of 168, 189, and

231?

Op 1: 15

Op 2: 10

```
Op 3: 21
Op 4: None of these
Op 5:
Correct Op : 4

Ques. The largest fo
```

Ques. The largest four digit number which is a multiple of 8, 10,12 and 15 is:
Op 1: 120
Op 2: 9600
Op 3: 9840
Op 4: 9960
Op 5:
Correct Op : 4

Ques. If log_x (0.1) = -1/3, then the value of x is: Op 1: 10 Op 2: 100 Op 3: 1000 Op 4: 1/1000 Op 5: Correct Op : 3

Ques. If $a^x = b^y$, then: Op 1: log(a/b) = x/yOp 2: log(a) / log(b) = x/yOp 3: log(a) / log(b) = y/xOp 4: None of these Op 5: Correct Op : 3

Ques. If $\log_8 x + \log_8 (1/6) = 1/3$ then the value of x is: Op 1: 12 Op 2: 16 Op 3: 18

```
Op 4: 24
Op 5:
Correct Op: 1
Ques. If \log x + \log y = \log (x + y), then:
Op 1: x = y
Op 2: xy=1
Op 3: y = (x-1)/x
Op 4: y = x/(x-1)
Op 5:
Correct Op: 4
Ques. If \log_{10} 7 = a, then \log_{10}(1/70) is equal to:
Op 1: -(1 + a)
Op 2: (1 + a)^{-1}
Op 3: a/10
Op 4: 1/10a
Op 5:
Correct Op: 1
Ques. If log\{(a+b)/3\} = 0.5(log a + log b), then the correct relation between a and
b is:
Op 1: a^2+b^2 = 7ab
Op 2: a^2-b^2 = 7ab
Op 3: (a+b)^2 = 2
Op 4: (a+b)/3 = (1/2)(a+b)
Op 5: None of these
Correct Op: 1
Ques. If \log x = \log 3 + 2 \log 2 - (3/4) \log 16. The value of x is:
Op 1: 1/2
```

Op 2: 1

Op 3: 3/2

```
Op 4: 2
Op 5: None of these
Correct Op : 3

Ques. If \log x = (1/2) \log y = (1/5) \log z, the value of x^4y^3z^{-2} is: Op 1: 0
Op 2: 1
Op 3: 2
Op 4: 3
Op 5: None of these
```

Ques. If $\log_{10000} x = -1/4$, then x is given by: Op 1: 1/100 Op 2: 1/10 Op 3: 1/20 Op 4: none of these Op 5: Correct Op : 2

Ques. The value of $3^{-1/2 \log_3(9)}$ is: Op 1: 3
Op 2: 1/3
Op 3: 2/3
Op 4: none of these
Op 5:
Correct Op : 2

Ques. $\log_e xy - \log_e |x|$ equals to: Op 1: $\log_e x$ Op 2: $\log_e |x|$ Op 3: $-\log_e x$ Op 4: none of these

```
Op 5:
```

Ques. The value of $(\log_a n)$ / $(\log_{ab} n)$ is given by:

Op 1: 1 + log_a b

Op 2: $1 + \log_b a$

Op 3: log_a b

Op 4: log_b a

Op 5:

Correct Op: 1

Ques. If (a4 - 2a2b2 + b4)x-1 = (a-b)2x (a+b)-2, then x equals to:

Op 1: (a - b) / (a + b)

Op 2: log (a2 - b2)

Op 3: $\log (a + b) / \log (a - b)$

Op 4: $\log (a - b) / \log (a + b)$

Op 5:

Correct Op: 4

Ques. If a, b, and c are in geometric progression then $\log_a n$, $\log_b n$ and $\log_c n$ are in:

Op 1: AP

Op 2: GP

Op 3: HP

Op 4: None of these

Op 5:

Correct Op: 3

Ques. What is the value of $antilog_{10}100$?

Op 1: 2

Op 2: 10100

Op 3: 100

Op 4: 10

Op 5:

Ques. If antilog $_{\mathbf{x}}$ 5 = 30, what can you infer about x?

Op 1: x is a number between 1 and 2

Op 2: x is 305

Op 3: x is a number between 2 and 3

Op 4: None of these

Op 5:

Correct Op: 1

Ques. Every time x is increased by a given constant number, y doubles and z becomes three times. How will log(y) and log(z) behave as x is increased by the same constant number?

Op 1: Both will grow linearly with different slopes

Op 2: Both will grow linearly with same slopes

Op 3: y will grow linearly, while z will not

Op 4: z will grow linearly, while y will not

Op 5:

Correct Op: 1

Ques. x triples every second. How will log₂x change every second?

Op 1: It will double every second

Op 2: It will triple every second

Op 3: It increases by a constant amount every second.

Op 4: None of these

Op 5:

Correct Op: 3

Ques. f(x) grows exponentially with x, how will f(log(x)) grow?

Op 1: Exponentially

Op 2: Linearly

Op 3: Quadratically

Op 4: None of these

Op 5:

Correct Op: 1

Ques. What is the value of \log_{512} 8? Op 1: 3 Op 2: 1/3 Op 3: -3 Op 4: -1/3 Op 5: Correct Op: 2 Ques. What is the value of $\log_7 (1/49)$? Op 1: 2 Op 2: 1/2 Op 3: -1/2 Op 4: -2 Op 5: Correct Op: 4 Ques. Given that $\log_{64} x = 2/6$, what is the value of x? Op 1: 2 Op 2: 4 Op 3: 6 Op 4: 8 Op 5: Correct Op: 2 Ques. If 7x = 85, what is the value of x? Op 1: log₇85 Op 2: $\log_{85} 7$ Op 3: $\log_{10} 7$ Op 4: $\log_{10} 85$ Op 5:

```
Ques. If \log_{10} 2 = 0.3010, what is the number of digits in 264
Op 1: 19
Op 2: 20
Op 3: 18
Op 4: None of these
Op 5:
Correct Op: 2
Ques. What is \log_1 10?
Op 1: 1
Op 2: 10
Op 3: 0
Op 4: Tends to infinity
Op 5:
Correct Op: 4
Ques. What is log_{10}0?
Op 1: 0
Op 2: 10
Op 3: 1
Op 4: Not defined
Op 5:
Correct Op: 4
```

Op 1: 3
Op 2: 1/3
Op 3: -3
Op 4: Not defined
Op 5:
Correct Op : 4

Ques. What is the value of log_3 (-9)?

Ques. What is the value of $\log_3 (1/9) + \log_9 81$?
Op 1: 2
Op 2: -2
Op 3: 0
Op 4: 4
Op 5:
Correct Op: 3
Ques. What is the value of $\log_3 1.5 + \log_3 6$?
Op 1: 2
Op 2: 2.7
Op 3: 1.8
Op 4: None of these
Op 5:
Correct Op: 1
Ques. Which of the following is $\log_8 x$ equivalent to?
Op 1: $\log_2(x/3)$
Op 2: $\log_2(3x)$
Op 3: $(\log_2 x)/3$
Op 4: None of these
Op 5:
Correct Op: 3
•
Ques. If n numbers are in arithmetic progression, the logarithm of the number will be in which of the following?
Op 1: Exponentially
Op 2: Linearly
Op 3: Quadratically
Op 4: None of these
Op 5:
Correct Op: 4

```
Ques. What is the value of \log_{20} 1?
Op 1: 0
Op 2: 1
Op 3: 20
Op 4: None of these
Op 5:
Correct Op: 1
Ques. The unit's digit in the product (771 x 659 x 365) is
Op 1: 1
Op 2: 2
Op 3: 4
Op 4: 6
Op 5:
Correct Op: 3
Ques. 1.52 * 0.02251/2 = ?
Op 1: 0.0375
Op 2: 0.3375
Op 3: 3.275
Op 4: 32.75
Op 5:
Correct Op: 2
Ques. If x1/2 / 4411/2 = 0.02, the value of x is:
Op 1: 0.1764
Op 2: 1.764
Op 3: 1.64
Op 4: 2.64
Op 5:
Correct Op: 1
```

```
Op 1: 1.41
Op 2: 1.412
Op 3: 1.413
Op 4: 1.414
Op 5:
Correct Op: 4
Ques. The value of (8-25- 8-26) is:
Op 1: 7 x 8-25
Op 2: 7 x 8-26
Op 3: 8 x 8-26
Op 4: None of these
Op 5:
Correct Op: 2
Ques. If 22n-1 = (1 / 8n-3) then the value of n is:
Op 1: 3
Op 2: 2
Op 3: 0
Op 4: -2
Op 5:
Correct Op: 2
Ques. If 2x = 3y = 6-z, then (1/x + 1/y + 1/z)
is equal to:
Op 1: 0
Op 2: 1
Op 3: 3/2
Op 4: -0.5
Op 5:
Correct Op: 1
```

Op 1: 0
Op 2: 1
Op 3: 2
Op 4: 3
Op 5:
Correct Op: 2
Ques. What will be the remainder when 1336 is divided by 2196?
Op 1: 0
Op 2: 1
Op 3: 12
Op 4: 2195
Op 5:
Correct Op: 2
Ques. The roots of the equation 4x-3*2x+2+32=0 would include-
Op 1: 2, 3
Op 2: 1, 2, 3
Op 3: 1, 2
Op 4: 4, 8
Op 5:
Correct Op: 1
Ques. If ax =b, by=c and cz =a, then the value of xyz is:
Op 1: 0
Op 2: 1
Op 3: 2
Op 4: 3
Op 5:
Correct Op: 2

Ques. If x = 1+21/2 and y=1-21/2, then x2+y2 is - Op 1: 2

```
Op 2: 3
Op 3: 6
Op 4: 0
Op 5:
Correct Op: 3
Ques. If 4x+3 = 2x+7, then the value of x is:
Op 1: 3
Op 2: 2
Op 3: 1
Op 4: None of these
Op 5:
Correct Op: 3
Ques. 2x+y = 2*(2)1/2 and 2x-y = 21/2, the value of x is:
Op 1: 1
Op 2: 2
Op 3: 3
Op 4: 4
Op 5: None of these
Correct Op: 1
Ques. If x = 8, y = 27, the value of (x4/3+y2/3)1/2 is:
Op 1: 5
Op 2: 6
Op 3: 7
Op 4: 8
Op 5: None of these
Correct Op: 1
Ques. If xy = yx and x = 2y, the value of y is:
Op 1: 1
Op 2: 2
```

```
Op 3: 3
Op 4: 4
Op 5: None of these
Correct Op : 2
```

Ques. If 2x * 3y = 18 and 22x * 3y= 36, the value of x is:

Op 1: 0

Op 2: 1

Op 3: 2

Op 4: 3

Op 5: None of these Correct Op : 2

Ques. What is the value of 500?

Op 1: 0

Op 2: 1

Op 3: 50

Op 4: None of these

Op 5:

Correct Op: 2

Ques. What is the value of 6-2?

Op 1: 1/36

Op 2: 36

Op 3: -36

Op 4: None of these

Op 5:

Correct Op: 1

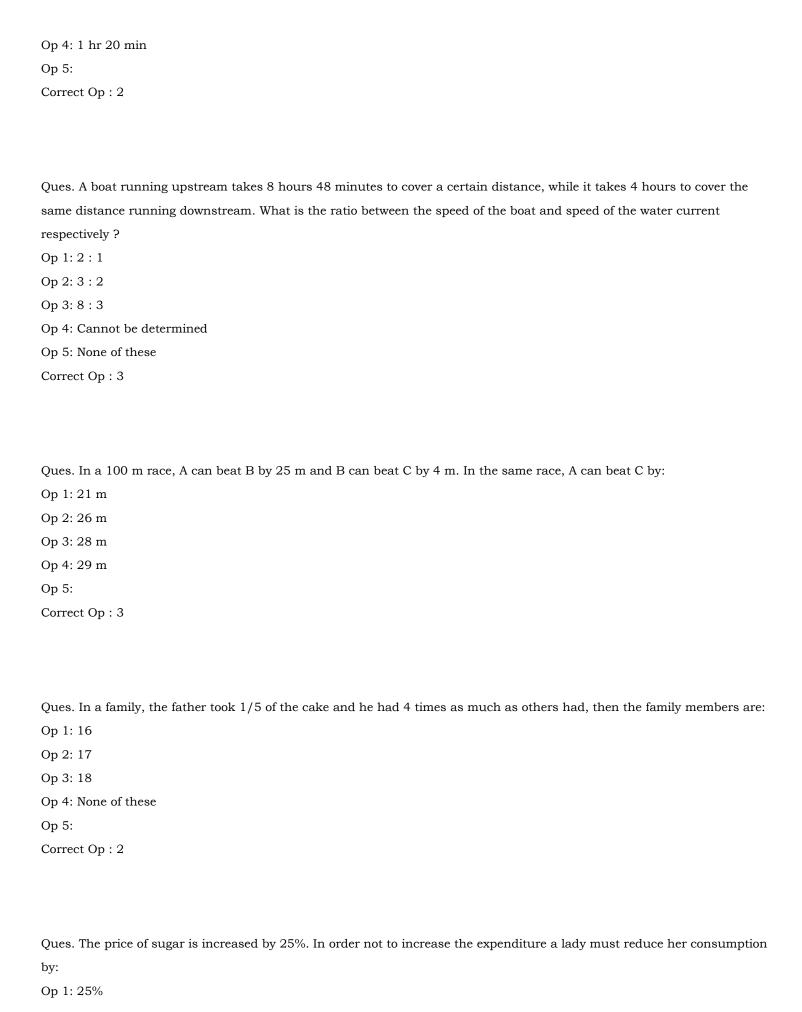
Ques. What is the value of 0-10?

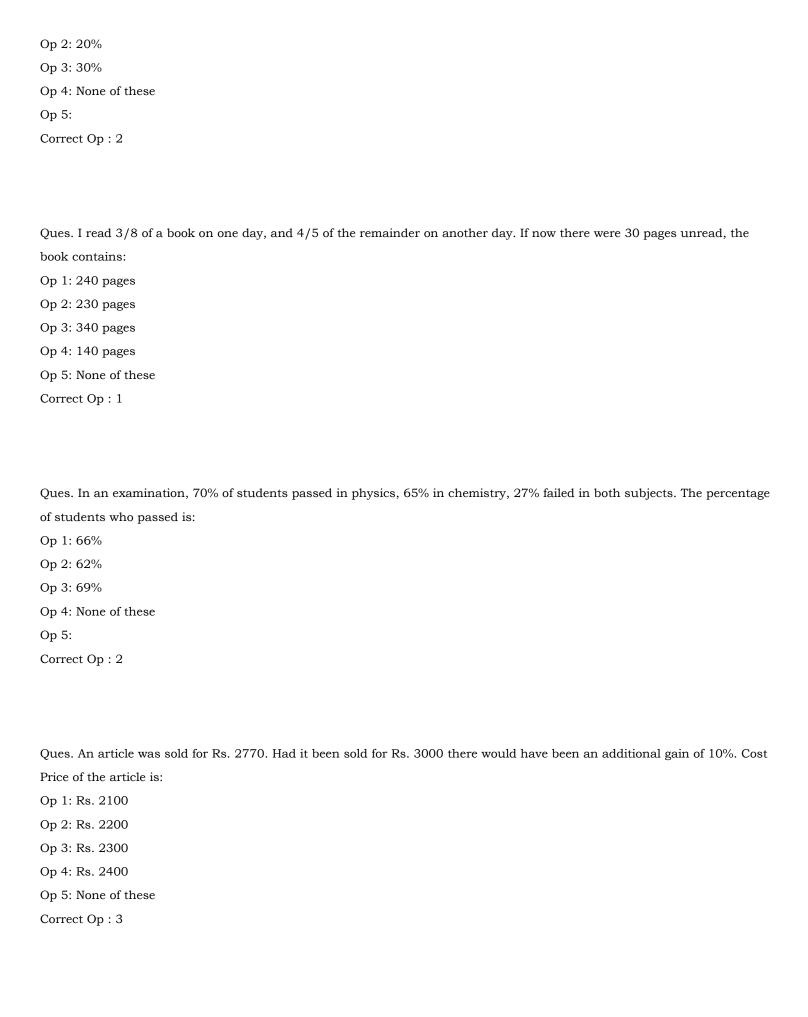
Op 1: 0

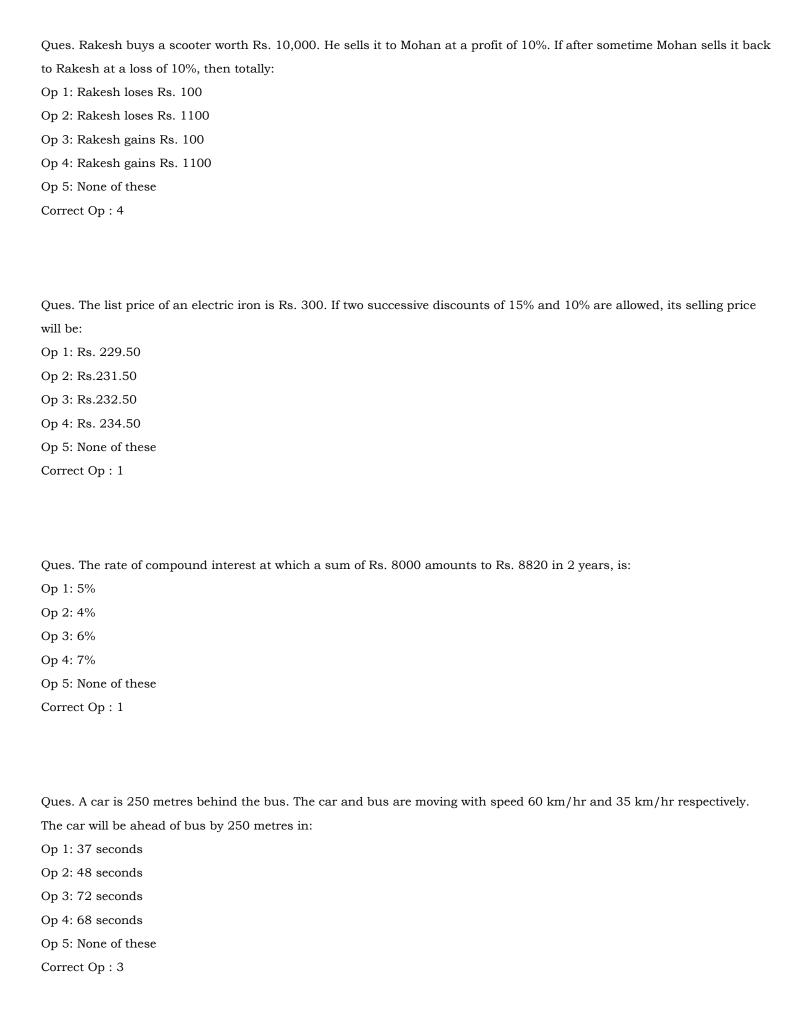
Op 2: 1

Op 3: -10



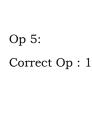






Ques. Mohan walks a certain distance and rides back in 6 hours and 15 minutes. If he walks both ways he takes 7 hours
and 45 minutes. If Mohan rides both ways the time which he will take will be:
Op 1: 4 hours
Op 2: 19/4 hours
Op 3: 9/2 hours
Op 4: 17/4 hours
Op 5: None of these
Correct Op: 2
Ques. Population of a village is eight thousand. If 6% men and 10% women are added, population becomes 8,600, then the
number of men in the village was:
Op 1: 4800
Op 2: 5000
Op 3: 5060
Op 4: 6000
Op 5:
Correct Op: 2
Ques. If 15 oxen or 20 cows can eat the grass of a field in 80 days, then in how many days will 6 oxen and 2 cows eat the
same grass?
Op 1: 40
Op 2: 60
Op 3: 100
Op 4: 160
Op 5:
Correct Op: 4
Ques. At a certain party the ratio of gents and ladies was 1:2. But when 2 gents and 2 ladies left the party, the ratio
became 1:3. How many people were initially present in the party?
Op 1: 12
Op 2: 15

Op 4: 24



Ques. Prabodh bought 30 kg of rice at the rate of Rs. 8.50 per kg and 20 kg of rice at the rate of Rs. 9.00 per kg. He mixed the two. At what price (App.) per kg should he sell the mixture in order to get 20% profit?

Op 1: Rs. 9.50

Op 2: Rs. 8.50

Op 3: Rs. 10.50

Op 4: Rs. 12.00

Op 5:

Correct Op: 3

Ques. The cash price of a television is Rs. 4022. A customer paid Rs. 1500 in cash and promised to pay the remaining money in 3 monthly equal instalments at the rate of 5% per annum compound interest. What is the value of each instalment?

Op 1: Rs. 926.10

Op 2: Rs. 903.33

Op 3: Rs. 928.30

Op 4: Rs. 940.50

Op 5:

Correct Op: 1

Ques. The population of a village decreases at the rate of 20% per annum. If its population 2 years ago was 10000, what is its present population?

Op 1: 6000

Op 2: 10000/144

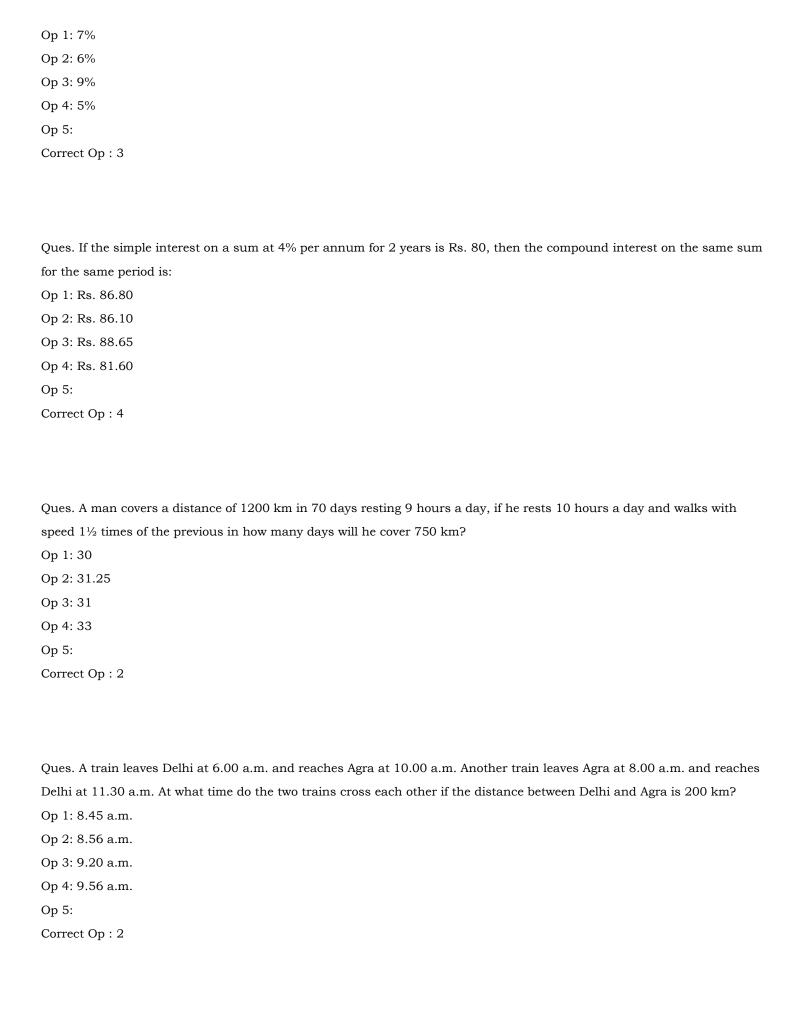
Op 3: 6400

Op 4: 7600

Op 5:

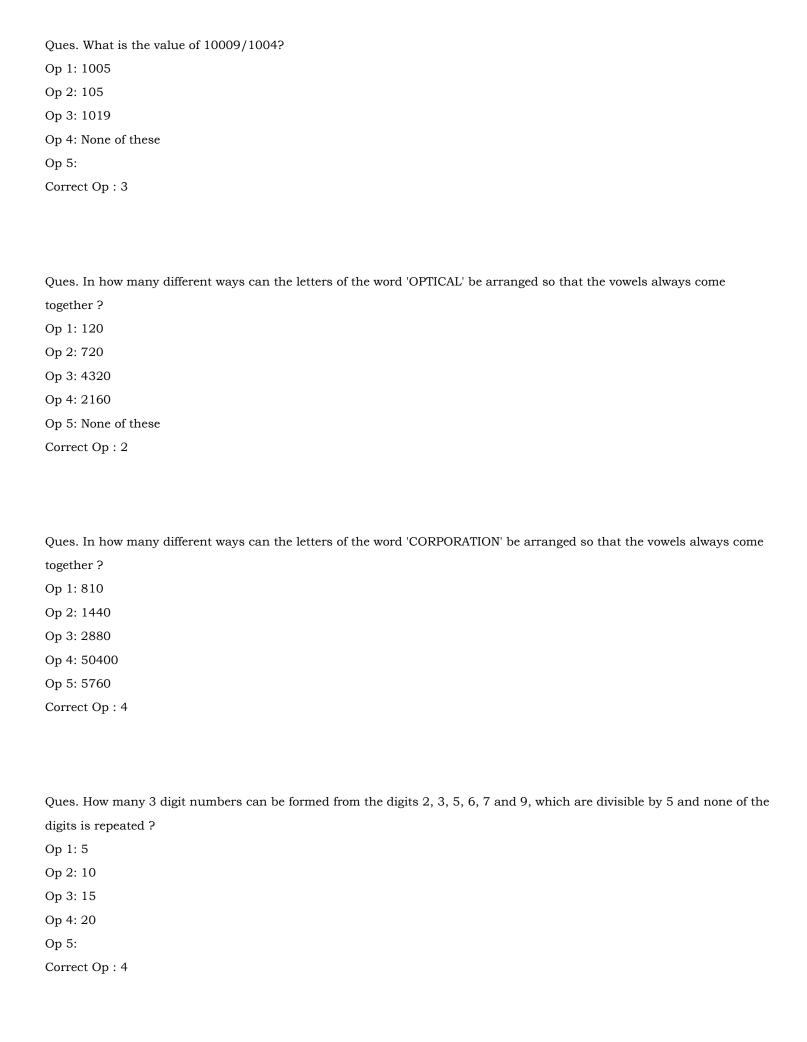
Correct Op: 3

Ques. A certain sum of money at simple interest becomes Rs. 1062 in 2 years and Rs. 1183.50 in 3½ years. What is rate of interest per annum?



Ques. How many litres of a 90% solution of concentrated acid needs to be mixed with a 75% solution of concentrated acid to
get a 30 L solution of 78% concentrated acid?
Op 1: 24 L
Op 2: 22.5 L
Op 3: 6 L
Op 4: 17.5 L
Op 5:
Correct Op: 3
Ques. If x is a positive number and $y = x^2$, then which of the following is true?
Op 1: y is always more than x
Op 2: x is always more than y
Op 3: x is always equal to y
Op 4: None of these
Op 5:
Correct Op: 4
Ques. Rajiv has a number x in his mind. He finds out that the square of x is less than x. What is the range of x?
Op 1: x is more than 0
Op 2: x is less than 1
Op 3: x is more than 0, but less than 1
Op 4: This is not possible
Op 5:
Correct Op: 3
Ques. What is the value of: x1.5 * x2?
Op 1: x3
Op 2: x3.5
Op 3: x0.75
Op 4: None of these
Op 5:
Correct Op: 2

```
Ques. What is the value of: (33*812*20)/95?
Op 1:0
Op 2: 3
Op 3: 1/3
Op 4: None of these
Op 5:
Correct Op: 2
Ques. What number should be divided by (0.81)1/2 to give the result as 81?
Op 1: 9
Op 2: 81
Op 3: 72.9
Op 4: 0.9
Op 5:
Correct Op: 3
Ques. If 6(x-3) = 36(x-5), then what is the value of x?
Op 1: 2
Op 2: No value will agree
Op 3: -1
Op 4: 7
Op 5:
Correct Op: 4
Ques. Which is the largest among 21/2, 51/3 and 41/4?
Op 1: (2)1/2
Op 2: 51/3
Op 3: 41/4
Op 4: None of these
Op 5:
Correct Op: 2
```



Ques. A committee is to be formed comprising 7 members such that there is a simple majority of men and at least 1 women.
The shortlist consists of 9 men and 6 women. In how many ways can this be done?
Op 1: 3,724
Op 2: 3,630
Op 3: 4,914
Op 4: 5,670
Op 5:
Correct Op: 3
Ques. From a pack of 52 playing cards, 4 cards are removed at random. In how many ways can the 1st place and 3rd place
cards be drawn out such that both are black?
Op 1: 64,974
Op 2: 62,252
Op 3: 69,447
Op 4: 1,592,500
Op 5:
Correct Op: 4
Correct Op . 1
Ques. In how many ways can the digits 2,3,5,7 and 9 be placed to form a three-digit number so that the higher order digit is
always greater than the lower order digits? (Assume digits are all different).
Op 1: 8
Op 2: 9
Op 3: 10
Op 4: 15
Op 5:
Correct Op: 3
Ques. In how many ways can 4 ladies and 4 men form two mixed doubles teams for a tennis match?
Op 1: 72
Op 2: 108
Op 3: 36
Op 4: 84
Op 5:

~	\sim		-
Correct	()n	•	- 1
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Ques. In CAT entrance examination paper there are 3 sections, each containing 5 questions. A candidate has to sol	lve 5
choosing at least one from each section. The number of ways he can choose is	

Op 1: 2,500

Op 2: 2,250

Op 3: 2,750

Op 4: 3,250

Op 5:

Correct Op: 2

Ques. A boy has 4 different boxes and 5 different marbles. In how many ways can he place the marbles in the boxes such that each box has at least one marble?

Op 1: 560

Op 2: 240

Op 3: 420

Op 4: 36

Op 5:

Correct Op: 2

Ques. A teacher was trying to form the groups of students in such a way that every group has equal number of students and that number should be a prime number. She tried for first 5 prime numbers, but on each occasion exactly one student was left behind. If t

Op 1:0

Op 2: 2

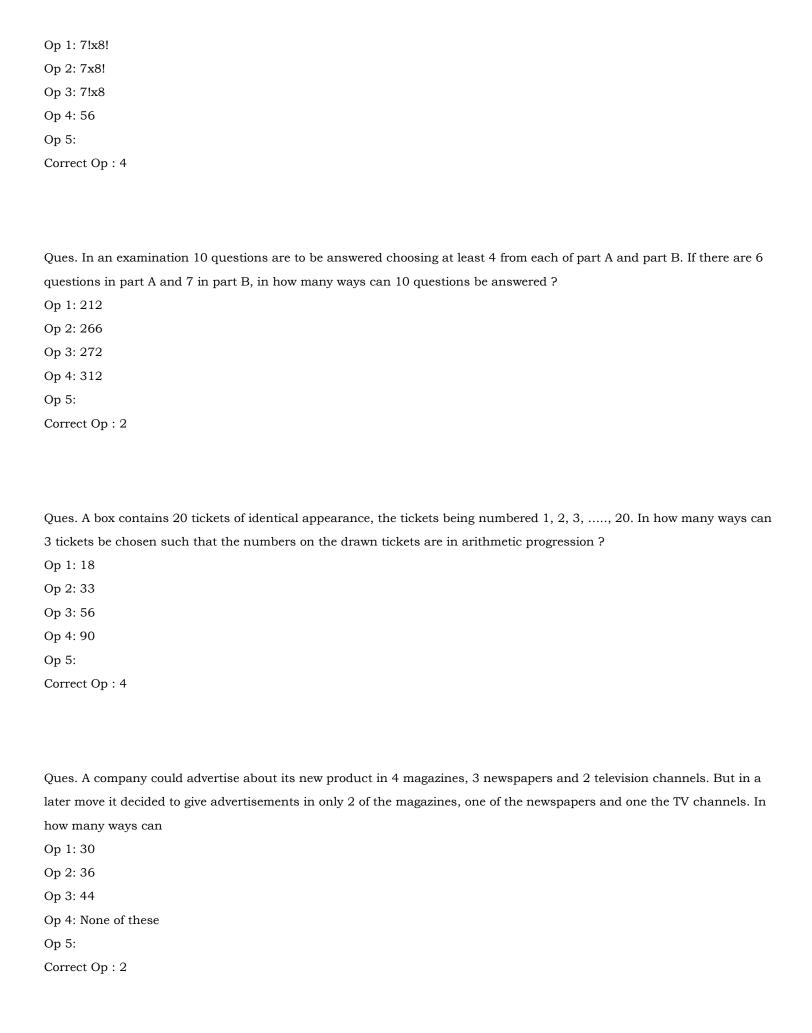
Op 3: 3

Op 4: 4

Op 5:

Correct Op: 4

Ques. Ram buys 7 novels from a book fair. Shyam buys 8 novels from the fair, none of which is common with those bought by Ram. They decide to exchange their books one for one. In how many ways can they exchange their books for the first time?



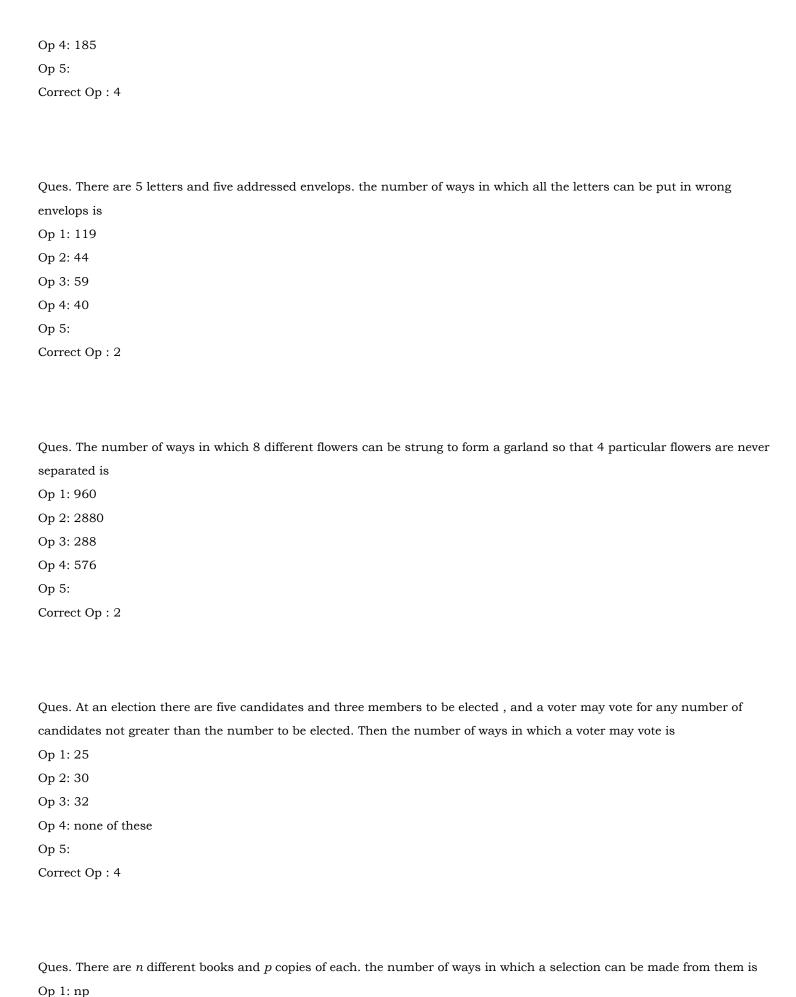
Ques. In how many ways can the letters of the word 'ERGONOMICS' be rearranged such that the vowels always appear
together?
Op 1: 6! /2!
Op 2: 6!*4!
Op 3: 7! /2!
Op 4: (7! * 4!)/2!
Op 5:
Correct Op: 4
Ques. How many different four letter words can be formed (the words need not be meaningful) using the letters of the word
PACIFIC such that the first letter is P and the last letter is F?
Op 1: 8
Op 2: 3
Op 3: 6
Op 4: 7!/5!
Op 5:
Correct Op: 1
Ques. The value of $74P_2$ is
Op 1: 2775
Op 2: 150
Op 3: 5402
Op 4: none of these
Op 5:
Correct Op: 3
Ques. In how many different ways can the letters of the word ' HARDWARE' be arranged in such a way that the vowels
always come together.
Op 1: 120
Op 2: 1080
Op 3: 1440
Op 4: 4320
Op 5: 720

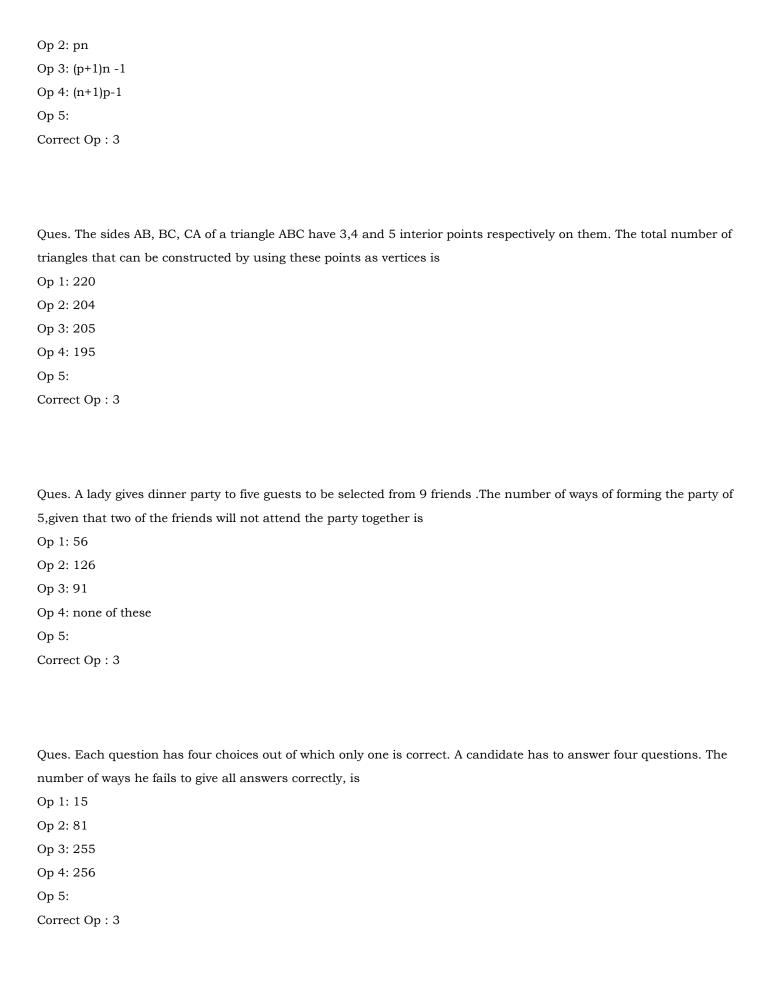
Op 4: none of these

Ques. In how many ways a committee, consisting of 4 men and 10 women can be formed from 6 men and 10 women?
Op 1: 266
Op 2: 50
Op 3: 15
Op 4: 8640
Op 5: none of these
Correct Op: 3
Ques. Out of 7 consonants and four vowels ,how many words of three consonants and 2 vowels can be formed?
Op 1: 210
Op 2: 1050
Op 3: 25200
Op 4: 21400
Op 5: none of these
Correct Op: 3
Ques. 3 books of mathematics and 5 books of physics are placed on a shelf so that the books on the same subject always
remain together .The possible arrangements are .
Op 1: 1440
Op 2: 1956
Op 3: 720
Op 4: none of these
Op 5:
Correct Op: 1
Ques. The number of possible selections of one or more questions from 8 given questions, each question having an
alternative, is
Op 1: 28-1
Op 2: 38-1
Op 3: 48-1

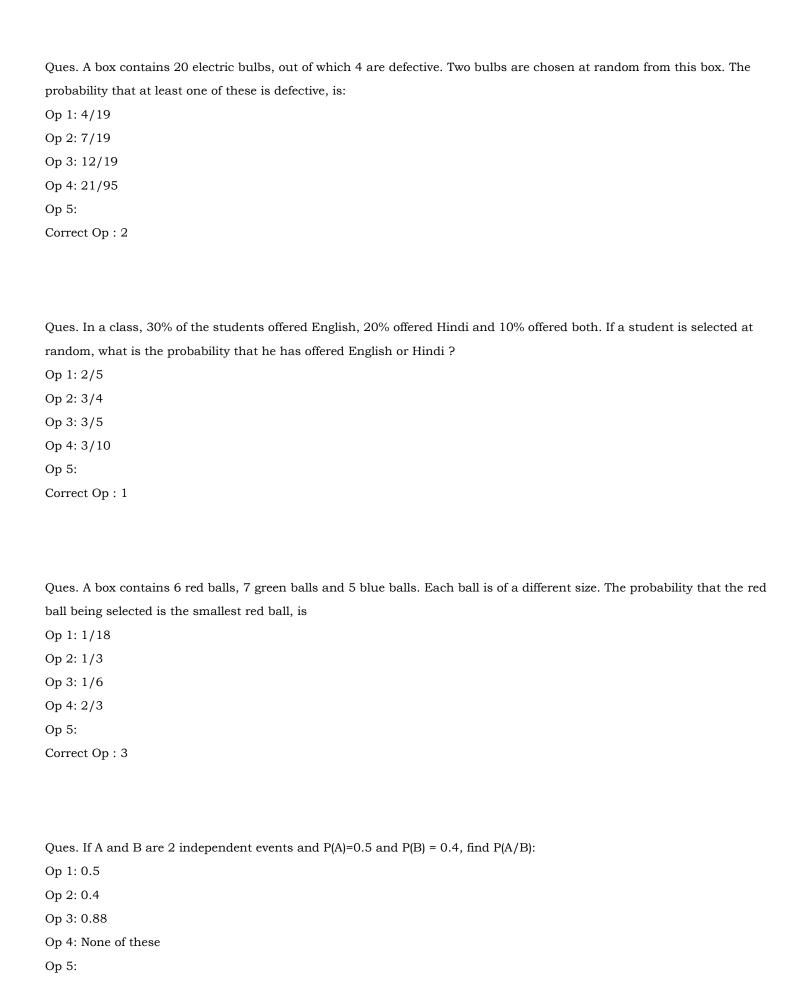
Op 5:
Correct Op: 2
Ques. A five -digit number divisible by 3 is to be formed using numerals 0,1,2,3,4 and 5 without repetition. The total
number of ways this can be done is
Op 1: 216
Op 2: 240
Op 3: 600
Op 4: 3125
Op 5:
Correct Op: 1
Ques. Let A be containing 10 distinct elements ,then the total number of distinct functions from A to A IS
Op 1: 10!
Op 2: 1010
Op 3: 210
Op 4: 210-1
Op 5:
Correct Op: 2
Ques. A polygon has 44 diagonals, the number of its sides is
Op 1: 10
Op 2: 11
Op 3: 12
Op 4: 22
Op 5:
Correct Op: 2
Ques. The number of triangles that can be formed by choosing the vertices from a set of 12 points, seven of which lie on the
same straight line is
On 1: 105

Op 2: 115 Op 3: 175





many different selections can be made?
Op 1: 1260
Op 2: 210
Op 3: 10C ₆ * 6!
Op 4: 10C ₅ * 6
Op 5:
Correct Op: 1
Ques. There are 10 yes or no questions. How many ways can these be answered?
Op 1: 1084
Op 2: 2048
Op 3: 1024
Op 4: 100
Op 5:
Correct Op: 3
Ques. If the letters of the word CHASM are rearranged to form 5 letter words such that none of the word repeat and the
results arranged in ascending order as in a dictionary what is the rank of the word CHASM?
results arranged in ascending order as in a dictionary what is the rank of the word CHASM? Op 1: 24
Op 1: 24
Op 1: 24 Op 2: 31
Op 1: 24 Op 2: 31 Op 3: 32 Op 4: 30 Op 5:
Op 1: 24 Op 2: 31 Op 3: 32 Op 4: 30
Op 1: 24 Op 2: 31 Op 3: 32 Op 4: 30 Op 5:
Op 1: 24 Op 2: 31 Op 3: 32 Op 4: 30 Op 5:
Op 1: 24 Op 2: 31 Op 3: 32 Op 4: 30 Op 5:
Op 1: 24 Op 2: 31 Op 3: 32 Op 4: 30 Op 5: Correct Op : 3
Op 1: 24 Op 2: 31 Op 3: 32 Op 4: 30 Op 5: Correct Op: 3 Ques. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all
Op 1: 24 Op 2: 31 Op 3: 32 Op 4: 30 Op 5: Correct Op: 3 Ques. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is:
Op 1: 24 Op 2: 31 Op 3: 32 Op 4: 30 Op 5: Correct Op: 3 Ques. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is: Op 1: 1/22
Op 1: 24 Op 2: 31 Op 3: 32 Op 4: 30 Op 5: Correct Op: 3 Ques. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is: Op 1: 1/22 Op 2: 3/22
Op 1: 24 Op 2: 31 Op 3: 32 Op 4: 30 Op 5: Correct Op: 3 Ques. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is: Op 1: 1/22 Op 2: 3/22 Op 3: 2/91
Op 1: 24 Op 2: 31 Op 3: 32 Op 4: 30 Op 5: Correct Op: 3 Ques. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is: Op 1: 1/22 Op 2: 3/22 Op 3: 2/91 Op 4: 2/77
Op 1: 24 Op 2: 31 Op 3: 32 Op 4: 30 Op 5: Correct Op: 3 Ques. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is: Op 1: 1/22 Op 2: 3/22 Op 3: 2/91 Op 4: 2/77 Op 5:



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Ques. A 5-digit number is formed by the digits 1,2,3,4 and 5 without repetition. What is the probability that the number
formed is a multiple of 4?
Op 1: 1/4
Op 2: 1/5
Op 3: 2/5
Op 4: 1/120
Op 5: 4
Correct Op: 2
Ques. In a single throw of dice, what is the probability to get a number greater or equal to 4?
Op 1: 1/3
Op 2: 2/3
Op 3: 1/2
Op 4: None of these
Op 5:
Correct Op: 3
Ques. A bag contains 5 oranges, 4 bananas and 3 apples. Rohit wants to eat a banana or an apple. He draws a fruit from
the bag randomly. What is the probability that he will get a fruit of his choice?
Op 1: 3.5/12

Ques. There are two boxes A and B. Box A has three red and four blue balls. Box B has five red and two blue balls. Anya draws a ball from each bag randomly. What is the probability that both balls are red?

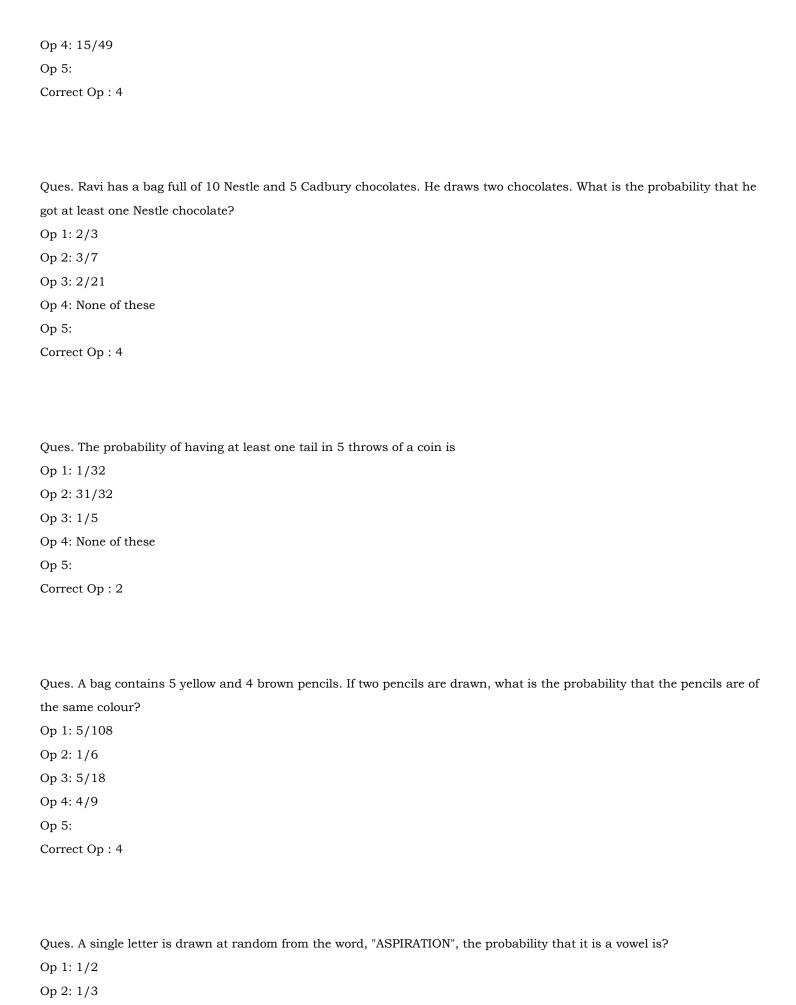
Op 1: 4/7
Op 2: 8/49
Op 3: 7/8

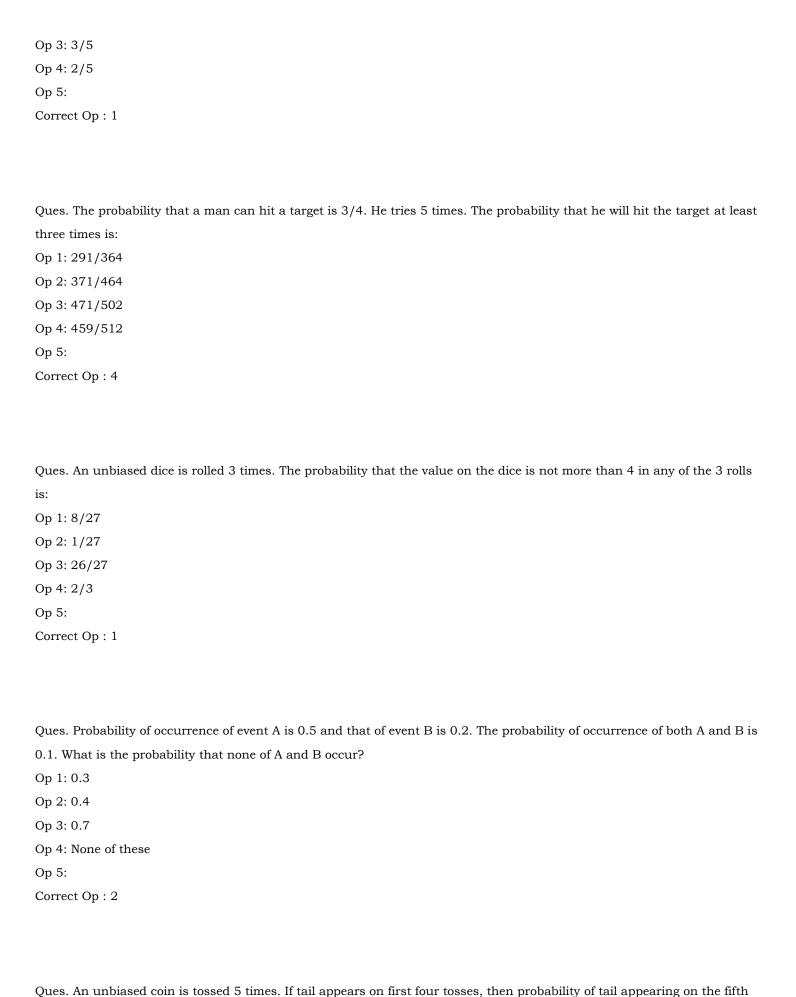
Op 2: 7/12 Op 3: 5/12

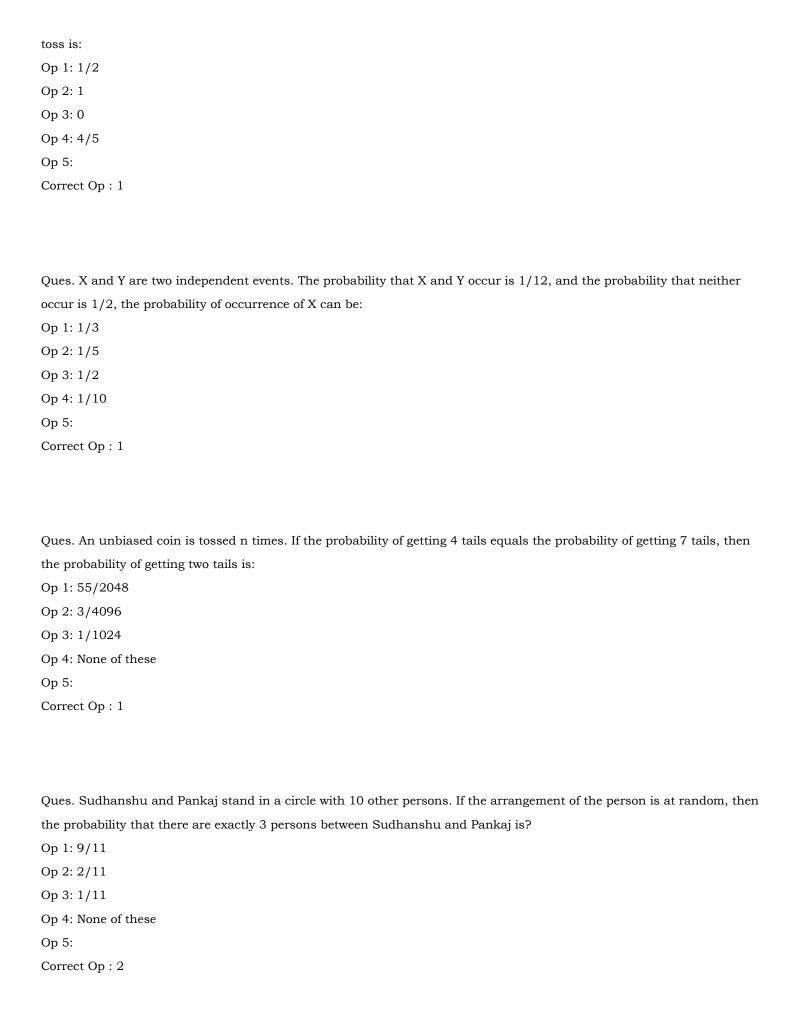
Op 5:

Op 4: None of these

Correct Op: 2







Ques. Three numbers are chosen from 1 to 30 randomly. The probability that they are not consecutive is:
Op 1: 1/145
Op 2: 144/145
Op 3: 139/140
Op 4: 1/140
Op 5:
Correct Op: 2
Ques. A bag is full of 20 bananas and no other fruit. Rajeev draws a fruit from the bag. What is the probability that he will
draw a banana?
Op 1: 1
Op 2: 0
Op 3: 1/2
Op 4: None of these
Op 5:
Correct Op: 1
Ques. An unbiased dice is rolled 5 times and the outcomes are 1, 2, 3, 4 and 5 respectively. If it is rolled again, what is the
probability that the outcome is 6?
Op 1: 1
Op 2: 5/6
Op 3: 1/6
Op 4: None of these
Op 5:
Compact On 1.2
Correct Op: 3
Correct Op . 3
Correct Op . 3
Ques. The probability of drawing an apple from a bag of fruits is $6/25$. How many apples should Ravi draw, so that there is
Ques. The probability of drawing an apple from a bag of fruits is 6/25. How many apples should Ravi draw, so that there is a chance he will draw 12 apples on average?
Ques. The probability of drawing an apple from a bag of fruits is $6/25$. How many apples should Ravi draw, so that there is a chance he will draw 12 apples on average? Op 1: 25
Ques. The probability of drawing an apple from a bag of fruits is $6/25$. How many apples should Ravi draw, so that there is a chance he will draw 12 apples on average? Op 1: 25 Op 2: 50
Ques. The probability of drawing an apple from a bag of fruits is 6/25. How many apples should Ravi draw, so that there is a chance he will draw 12 apples on average? Op 1: 25 Op 2: 50 Op 3: 12
Ques. The probability of drawing an apple from a bag of fruits is $6/25$. How many apples should Ravi draw, so that there is a chance he will draw 12 apples on average? Op 1: 25 Op 2: 50

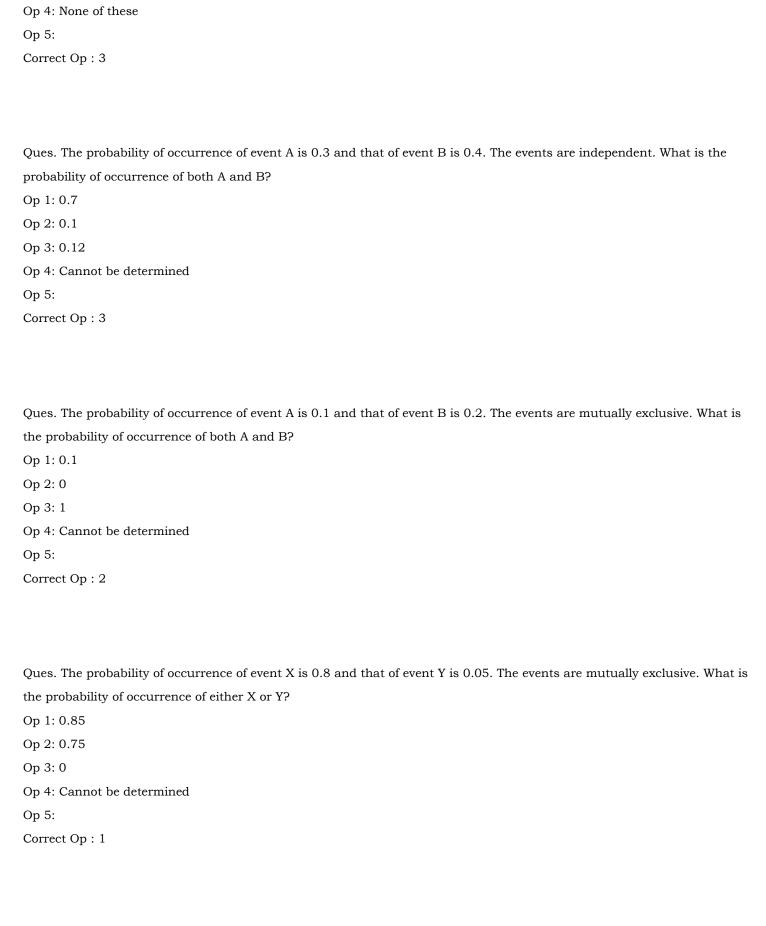
Correct Op: 2 Ques. What is the probability for a day to be Sunday? Op 1: 1/7 Op 2: 1/5 Op 3: 52/365 Op 4: None of these Op 5: Correct Op: 1 Ques. Rani has a bag with three blue and three yellow coins. She takes out a coin, sees its colour and puts it back in the bag. She does this thrice. What is the probability that she saw all blue coins. Op 1: 1/8 Op 2: 1/2 Op 3: 1/3 Op 4: None of these Op 5: Correct Op: 1 Ques. Shikhar has a bag with 2 balls, each of which can be black or white with equal probability. Now, he draws out a ball and it turns out to be black. After this event, what is the probability that both balls are black? Op 1: 1/2 Op 2: 1/4 Op 3: 1 Op 4: None of these Op 5: Correct Op: 1

Ques. A coin is tossed thrice. What is the probability that the first toss of coin lands head, second tail and third lands tail as well?

Op 1: 1/16

Op 2: 3/8

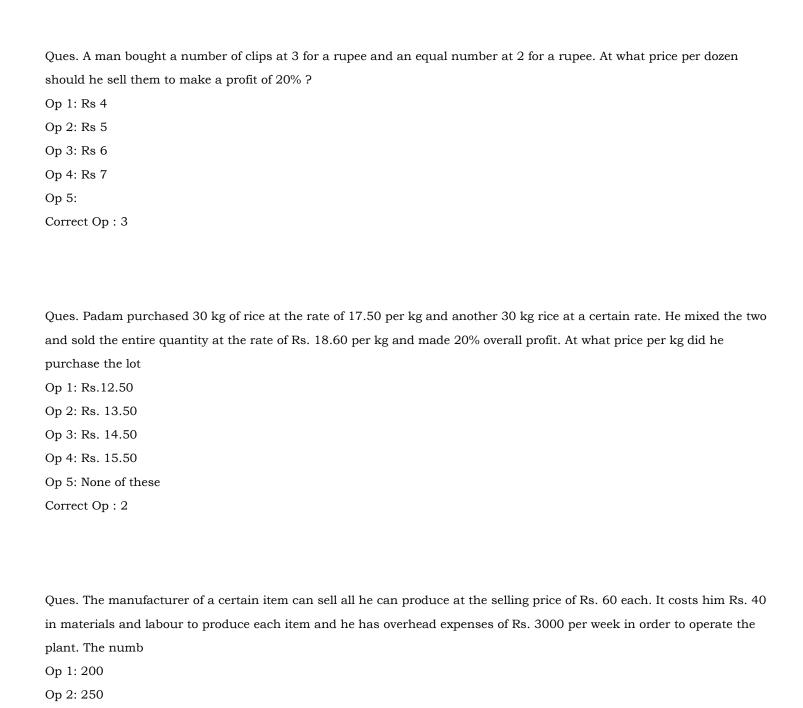
Op 3: 1/8



Ques. 10% of the voters did not cast their vote in an election between two candidates. 10% of the votes polled were found invalid. The successful candidate got 54% of the valid votes and won by a majority of 1620 votes. The number of voters

Op 1: 25000
Op 2: 33000
Op 3: 35000
Op 4: 40000
Op 5:
Correct Op: 1
Ques. A, B, C started a business with their investments in the ratio 1:3:5. After 4 months, A invested the same amount as
before and B as well as C withdrew half of their investments. The ratio of their profits at the end of the year is:
Op 1: 4:3:5
Op 2: 5:6:10
Op 3: 6:5:10
Op 4: 10:5:6
Op 5:
Correct Op: 2
Ques. Tea worth Rs. 126 per kg and Rs. 135 per kg are mixed with a third variety in the ratio 1:1:2. If the mixture is worth
Rs. 153 per kg, the price of the third variety per kg will be:
Op 1: Rs. 169.50
Op 2: Rs. 170
Op 3: Rs. 175.50
Op 4: Rs. 180
Op 5:
Correct Op: 3
Ques. A can contains a mixture of two liquids A and B in the ratio 7:5. When 9 litres of mixture are drawn off and the can is
Ques. A can contains a mixture of two liquids A and B in the ratio 7:5. When 9 litres of mixture are drawn off and the can is filled with B, the ratio of A and B becomes 7:9. How many litres of liquid A was contained by the can initially?
filled with B, the ratio of A and B becomes 7:9. How many litres of liquid A was contained by the can initially?
filled with B, the ratio of A and B becomes 7:9. How many litres of liquid A was contained by the can initially ? Op 1: 10
filled with B, the ratio of A and B becomes 7:9. How many litres of liquid A was contained by the can initially ? Op 1: 10 Op 2: 20
filled with B, the ratio of A and B becomes 7:9. How many litres of liquid A was contained by the can initially ? Op 1: 10 Op 2: 20 Op 3: 21
filled with B, the ratio of A and B becomes 7:9. How many litres of liquid A was contained by the can initially ? Op 1: 10 Op 2: 20 Op 3: 21 Op 4: 25

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Ques. A sells a bicycle to B at a profit of 20%. B sells it to C at a profit of 25%. If C pays Rs. 225 for it, the cost price of the

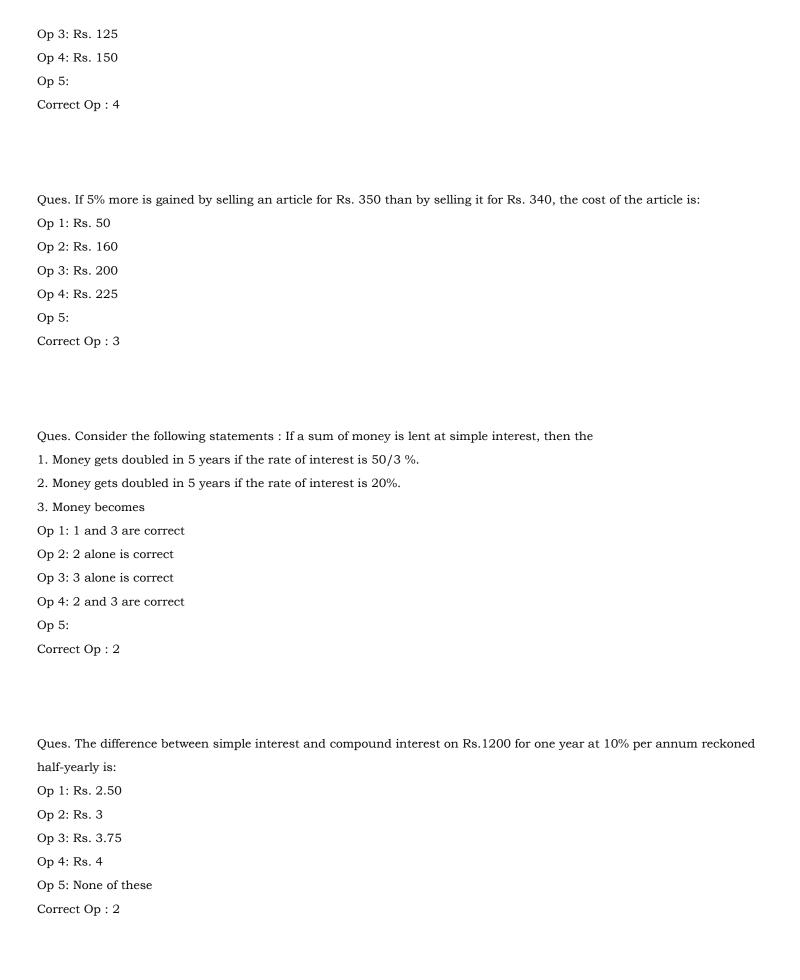
Op 1: Rs. 110

bicycle for A is:

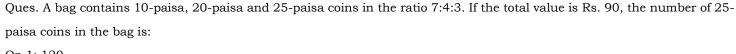
Op 3: 300 Op 4: 400 Op 5:

Correct Op: 1

Op 2: Rs.120



Ques. A sum of money lent at compound interest for 2 years at 20% per annum would fetch Rs. 482 more, if the interest
was payable half-yearly than if it was payable annually. The sum is:
Op 1: Rs. 10,000
Op 2: Rs. 20,000
Op 3: Rs. 40,000
Op 4: Rs. 50,000
Op 5:
Correct Op: 2
Ques. The simple interest on Rs. 10 for 4 months at the rate of 3 paise per rupee per month is:
Op 1: Rs. 1.20
Op 2: Rs. 1.60
Op 3: Rs. 2.40
Op 4: Rs. 3.60
Op 5:
Correct Op: 1
Ques. If the compound interest on a sum for 2 years at 25/2 % per annum is Rs. 510, the simple interest on the same sum
at the same rate for the same period of time is:
Op 1: Rs. 400
Op 2: Rs. 450
Op 3: Rs. 460
Op 4: Rs. 480
Op 5:
Correct Op: 4
Ques. I started on my bicycle at 7 a.m. to reach a certain place. After going a certain distance, my bicycle went out of order.
Consequently, I rested for 35 minutes and came back to my house walking all the way. I reached my house at 1 p.m. If my
cycling s
Op 1: 4.92 km
Op 2: 13.44 km
Op 3: 14.375 km
Op 4: 15.476 km
Op 5:
Correct Op: 1
Contest Op . I



Op 1: 120

Op 2: 160

Op 3: 280

Op 4: 300

Op 5:

Correct Op: 1

Ques. Find a whole number such that when one of its digit is erased, the resulting number is equal to one-ninth of the original number. The resulting number is also a multiple of 9.

Op 1:90

Op 2: 83438

Op 3: 10125

Op 4: 70847

Op 5:

Correct Op: 3

Ques. A ship is moving at a speed of 30 kmph. To know the depth of the ocean beneath it, it sends a radiowave which travels at a speed 200 m/s. The ship receives back the signal after it has moved 500 m. What is the depth of the ocean?

Op 1: 4 km

Op 2: 8 km

Op 3: 6 km

Op 4: 12 km

Op 5:

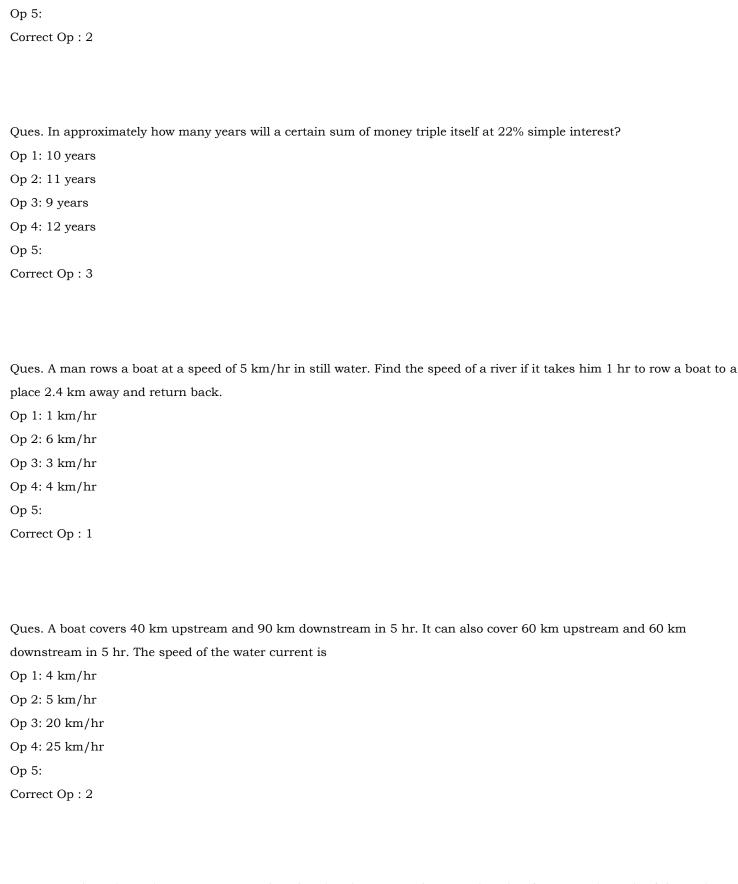
Correct Op: 3

Ques. In a town the population grows at a simple rate of 10% in a decade and compounds from decade to decade. Find the population at the beginning of the 1970s if the population at the beginning of the 1990s is 3,63,000 people.

Op 1: 30,000

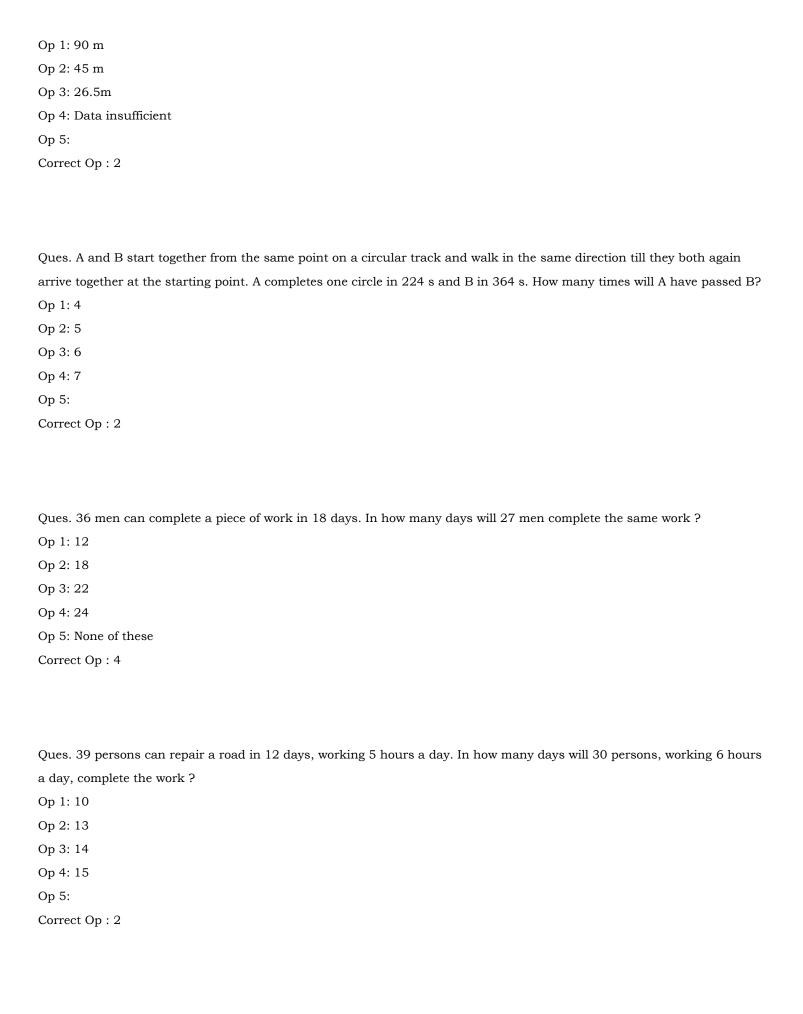
Op 2: 3,00,000

Op 3: 30,00,000



Op 4: 3,15,000

Ques. Two champion swimmers start a two-length swimming race at the same time, but from opposite ends of the pool. They swim at constant but different speeds. They first pass at a point 18.5 m from the deep end. Having completed one length, each swimmer take



Ques. If 7 spiders make 7 webs in 7 days, then 1 spider will make 1 web in how many days?
Op 1: 1
Op 2: 7/2
Op 3: 7
Op 4: 49
Op 5:
Correct Op: 3
Ques. Some persons can do a piece of work in 12 days. Two times the number of such persons will do half of that work in:
Op 1: 6 days
Op 2: 4 days
Op 3: 3 days
Op 4: 12 days
Op 5:
Correct Op: 3
Ques. Ronald and Elan are working on an assignment. Ronald takes 6 hours to type 32 pages on a computer, while Elan
takes 5 hours to type 40 pages. How much time will they take, working together on two different computers to type an
assignment of 110 pages ?
Op 1: 7 hours 30 minutes
Op 2: 8 hours
Op 3: 8 hours 15 minutes
Op 4: 8 hours 25 minutes
Op 5:
Correct Op: 3
Ques. A and B can do a work in 12 days, B and C in 15 days, C and A in 20 days. If A, B and C work together, they will
complete the work in:
Op 1: 5 days
Op 2: 47/6 days
Op 3: 10 days
Op 4: 47/3 days
Op 5:
Correct Op: 3

Ques. A and B can do a job together in 7 days. A is 7/4 times as efficient as B. The same job can be done by A alone in:
Op 1: 28/3 days
Op 2: 11 days
Op 3: 49/4 days
Op 4: 49/3 days
Op 5:
Correct Op: 2
Ques. A and B can complete a work in 15 days and 10 days respectively. They started doing the work together but after 2
days B had to leave and A alone completed the remaining work. The whole work was completed in:
Op 1: 8 days
Op 2: 10 days
Op 3: 12 days
Op 4: 15 days
Op 5:
Correct Op: 3
Ques. A, B and C together can complete a piece of work in 10 days. All the three started working at it together and after 4
days A left. Then B and C together completed the work in 10 more days. A alone could complete the work in:
days A left. Then B and C together completed the work in 10 more days. A alone could complete the work in: Op 1: 15 days
days A left. Then B and C together completed the work in 10 more days. A alone could complete the work in: Op 1: 15 days Op 2: 16 days
days A left. Then B and C together completed the work in 10 more days. A alone could complete the work in: Op 1: 15 days Op 2: 16 days Op 3: 25 days
days A left. Then B and C together completed the work in 10 more days. A alone could complete the work in: Op 1: 15 days Op 2: 16 days Op 3: 25 days Op 4: 50 days
days A left. Then B and C together completed the work in 10 more days. A alone could complete the work in: Op 1: 15 days Op 2: 16 days Op 3: 25 days Op 4: 50 days Op 5:
days A left. Then B and C together completed the work in 10 more days. A alone could complete the work in: Op 1: 15 days Op 2: 16 days Op 3: 25 days Op 4: 50 days
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days A left. Then B and C together completed the work in 10 more days. A alone could complete the work in: Op 1: 15 days Op 2: 16 days Op 3: 25 days Op 4: 50 days Op 5: Correct Op: 3 Ques. One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill the tank in 36 minutes,
days A left. Then B and C together completed the work in 10 more days. A alone could complete the work in: Op 1: 15 days Op 2: 16 days Op 3: 25 days Op 4: 50 days Op 5: Correct Op: 3 Ques. One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill the tank in 36 minutes, then the slower pipe alone will be able to fill the tank in:
days A left. Then B and C together completed the work in 10 more days. A alone could complete the work in: Op 1: 15 days Op 2: 16 days Op 3: 25 days Op 4: 50 days Op 5: Correct Op: 3 Ques. One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill the tank in 36 minutes, then the slower pipe alone will be able to fill the tank in: Op 1: 81 min
days A left. Then B and C together completed the work in 10 more days. A alone could complete the work in: Op 1: 15 days Op 2: 16 days Op 3: 25 days Op 4: 50 days Op 5: Correct Op: 3 Ques. One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill the tank in 36 minutes, then the slower pipe alone will be able to fill the tank in: Op 1: 81 min Op 2: 108 min
days A left. Then B and C together completed the work in 10 more days. A alone could complete the work in: Op 1: 15 days Op 2: 16 days Op 3: 25 days Op 4: 50 days Op 5: Correct Op: 3 Ques. One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill the tank in 36 minutes, then the slower pipe alone will be able to fill the tank in: Op 1: 81 min Op 2: 108 min Op 3: 144 min
days A left. Then B and C together completed the work in 10 more days. A alone could complete the work in: Op 1: 15 days Op 2: 16 days Op 3: 25 days Op 4: 50 days Op 5: Correct Op: 3 Ques. One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill the tank in 36 minutes, then the slower pipe alone will be able to fill the tank in: Op 1: 81 min Op 2: 108 min

Ques. A large tanker can be filled by two pipes A and B in 60 minutes and 40 minutes respectively. How many minutes will it take to fill the tanker from empty state if B is used for half the time and A and B fill it together for the other half?

Op 1: 15 min

Op 2: 20 min

Op 3: 27.5 min

Op 4: 30 min

Op 5:

Correct Op: 4

Ques. Three taps A, B and C can fill a tank in 12, 15 and 20 hours respectively. If A is open all the time and B and C are open for one hour each alternately, the tank will be full in:

Op 1: 6 hrs.

Op 2: 20/3 hrs

Op 3: 7 hrs

Op 4: 15/2 hrs

Op 5:

Correct Op: 3

Ques. Two pipes can fill a tank in 20 and 24 minutes respectively and a waste pipe can empty 3 gallons per minute. All the three pipes working together can fill the tank in 15 minutes. The capacity of the tank is:

Op 1: 60 gallons

Op 2: 100 gallons

Op 3: 120 gallons

Op 4: 180 gallons

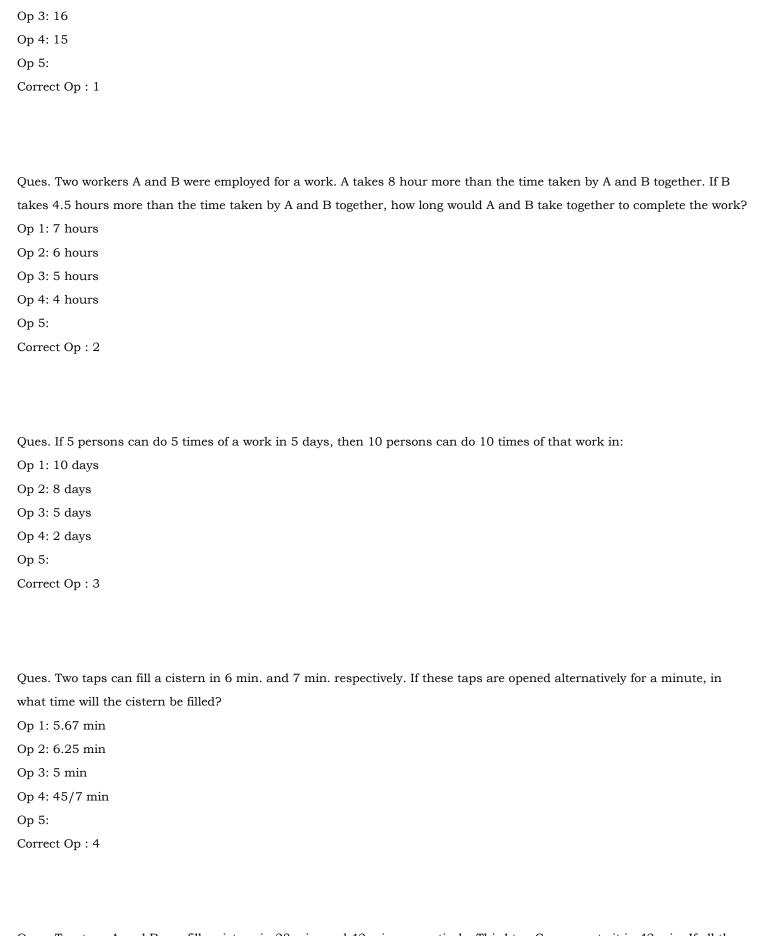
Op 5:

Correct Op: 3

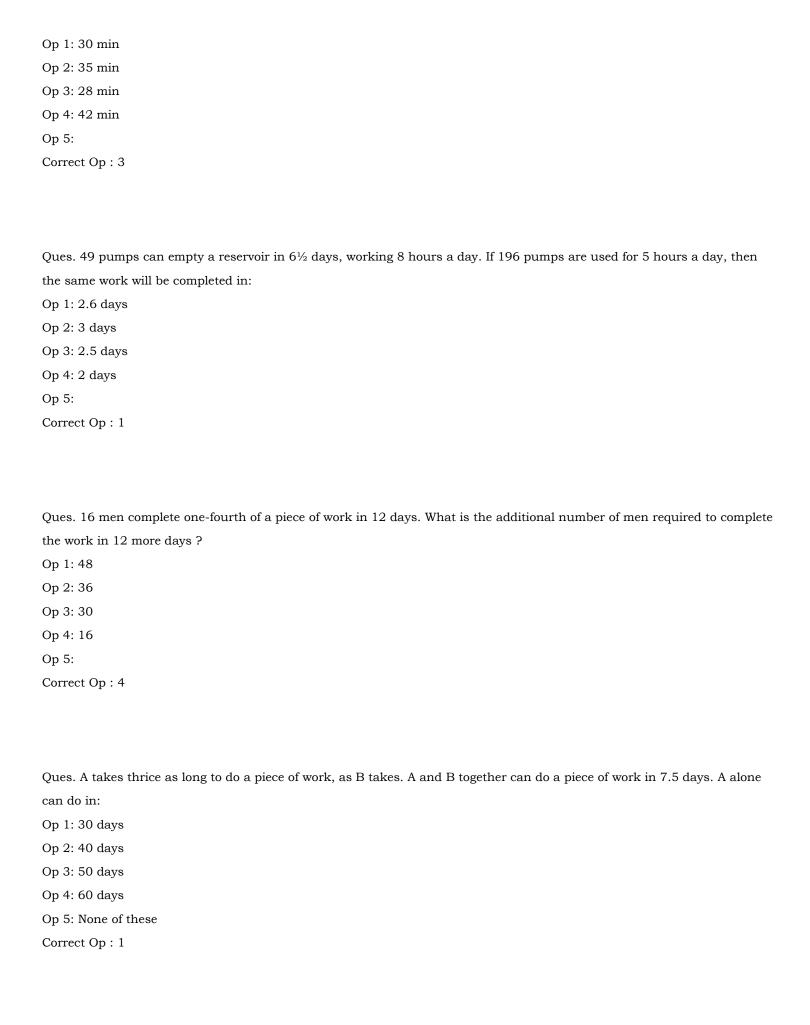
Ques. Ram and Shyam together do a work in 8 days. Both of them began to work. After 3 days Ram fell ill. Shyam completed the remaining work in 15 days. In how many days can Ram complete the whole work?

Op 1: 12

Op 2: 17



Ques. Two taps A and B can fill a cistern in 28 min. and 42 min. respectively. Third tap C can empty it in 42 min. If all the three taps are opened, the time taken to fill the cistern is:



Ques. A cistern can be filled by two pipes A and B in 10 and 15 hours respectively and is then emptied by a tap in 8 hours. If all the taps are opened, the cistern will be fill in: Op 1: 21 hours Op 2: 22 hours Op 3: 23 hours Op 4: 24 hours
Op 5: None of these Correct Op : 4
Ques. A locomotive engine, without any wagons
attached to it, can go at a speed of 40 km/hr. Its speed is diminished by a quantity that varies proportionally as the square root of the number of wagons attached. With 16 wagons, its speed is 28 km/hr. The Op 1: 99
Op 2: 100
Op 3: 101
Op 4: 120
Op 5:
Correct Op: 2
Ques. If 33 untrained labourers can do a work in 15 days of 12 hr. each, how many trained labourers can do 50% more
work in 11 days of 9 hr each? (It may be assumed that it takes 2 trained labourers to do the work of 5 untrained labourers)
Op 1: 42 Op 2: 36
Op 3: 90
Op 4: 100
Op 5:
Correct Op: 2
Ques. Which of the following fractions is less than 7/8 and greater than 1/3?
Op 1: 1/4
Op 2: 23/24
Op 3: 11/12
Op 4: 11/24
Op 5:

Op 5:

Ques. 892.7 - 573.07 - 95.007 = ? Op 1: 224.623 Op 2: 224.777 Op 3: 233.523 Op 4: 414.637 Op 5: Correct Op: 1 Ques. Which is the closest approximation to the product $0.3333 \times 0.25 \times 0.499 \times 0.125 \times 24$? Op 1: 1/8 Op 2: 3/4 Op 3: 3/8 Op 4: 2/5 Op 5: Correct Op: 1 Ques. Find the value of X: 0.009/X = 0.01Op 1: 0.0009 Op 2: 0.09 Op 3: 0.9 Op 4: 9 Op 5: Correct Op: 3 Ques. The least among the following is: Op 1: 0.2 Op 2: 1/0.2 Op 3: 0.2222222 Op 4: (0.2)2

Op 5:

1*5#4 / 148 = 78 Op 1: 1 Op 2: 4 Op 3: 6 Op 4: 8 Op 5: None of these Correct Op: 1 Ques. What is the value of (-5)(4)(2)(-1/2)(3/4)? Op 1: -30 Op 2: -15 Op 3: 15 Op 4: 30 Op 5: Correct Op: 3 Ques. If x * y = x2 + y2 - xy, then the value of 9 * 11 is: Op 1: 93 Op 2: 103 Op 3: 113 Op 4: 121 Op 5: Correct Op: 2 Ques. If a = 0.1039, then the value of (4a2 - 4a + 1)1/2 + 3a is: Op 1: 0.1039 Op 2: 0.2078 Op 3: 1.1039 Op 4: 2.1039

Ques. In the following expression, there are two missing digits: * and #. Find the value of *.

Correct Op: 3

Ques. If a, b, c, d, e are five consecutive odd numbers, their average is:

Op 1: 5 (a + 4)

Op 2: (abcde/5)

Op 3: 5 (a + b + c + d + e)

Op 4: None of these

Op 5:

Correct Op: 4

Ques. (x % of 932) + 30 = 309.6

Find x.

Op 1: 25

Op 2: 30

Op 3: 35

Op 4: 40

Op 5:

Correct Op: 2

Ques. Which of the following multipliers will cause a number to be increased by 29.7%?

Op 1: 1.297

Op 2: 12.97

Op 3: 129.7

Op 4: 1297

Op 5:

Correct Op: 1

Ques. If 2A = 3B and 4B = 5C, then A: C is:

Op 1: 4:3

Op 2: 8:15

Op 3: 15:8

Op 4: 3:4

Op 5:

Correct Op: 3

Op 5:

Correct Op: 4

Ques. 0.4777 . . . is the recurring decimal for the fraction: Op 1: 4777/100000 Op 2: 477/100 Op 3: 437/1000 Op 4: 43/90 Op 5: Correct Op: 4 Ques. 0.8888 ÷ 0.011 is equal to: Op 1: 8.08 Op 2: 80.8 Op 3: 0.808 Op 4: None of these Op 5: Correct Op: 2 Ques. The ascending order of rational numbers -7/10, 5/-8, 2/-3 is: Op 1: -7/10, 2/-3, 5/-8 Op 2: -7/10, 5/-8, 2/-3 Op 3: 5/-8, -7/10, 2/-3 Op 4: 2/-3, 5/-8, -7/10 Op 5: Correct Op: 1 Ques. If A is real and 1 + A + A2 + A3 = 40, then A is equal to: Op 1: -3 Op 2: -1 Op 3: 1 Op 4: 3

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Ques. (1 + 3 + 5 + ... + 3983) / 1992 = ?
Op 1: 1988
Op 2: 1992
Op 3: 1990
Op 4: None of these
Op 5:
Correct Op: 2
Ques. Which one of the following should be added to 25p2 + 16q2, so that the resulting sum becomes a perfect square?
Op 1: 20pq
Op 2: 30pq
Op 3: 40pq
Op 4: 50p2q2
Op 5:
Correct Op: 3
Ques. (1.0816) 1/2=?
Op 1: 0.14
Op 2: 1.4
Op 3: 1.004
Op 4: 1.04
Op 5:
Correct Op: 4
Ques. If the digit in the units place of a square natural number is 6, then the digit in the tens place will be:
Op 1: 1
Op 2: 3
Op 3: Even
Op 4: Odd
Op 5:
Correct Op: 4
```

Ques. (a+b)3-(a-b)3 can be factorized as: Op 1: 2b(3a2+b2) Op 2: 2a(3a2+b2) Op 3: 2b(3b2+a2) Op 4: 2a(a2+3b2) Op 5: Correct Op: 1 Ques. If 9x2+3px+6q when divide by 3x+1 leaves a remainder -3/4 and qx2+4px+7 is exactly divisible by x+1, then the values of p and q respectively will be: Op 1: 0, 7/4 Op 2: -7/4, 0 Op 3: Same Op 4: 7/4, 0 Op 5: Correct Op: 4 Ques. The equations 2x+3y-7=0 and 10x+15y-35=0 are: Op 1: Consistent and have unique solution Op 2: Consistent and have infinitely many solutions Op 3: inconsistent Op 4: none of these Op 5: Correct Op: 2 Ques. The solution of the simultaneous equations (1/2)x + (1/3)y = 2 and x+y=1 is: Op 1: x = 0, y = 1Op 2: x = 1, y = 0Op 3: x = 2/3, y = 3/2Op 4: x = 10, y = -9Op 5:

Correct Op: 4

Ques. If the equation $x^2-2(k+1)x+(9/2)k=0$ has two identical roots then the values of k are: Op 1: k=1, 2 Op 2: k=2 or 1/2 Op 3: k=3, 1/2 Op 4: none of these Op 5: Correct Op: 2 Ques. The number which should be subtracted from 5a2-3ab+7b2 to make it equal to a2+ab+b2, is: Op 1: 4a2-4ab+6b2 Op 2: 4a2-4ab+5b2 Op 3: 4a2+4ab+6b2 Op 4: 4a2-3ab+6b2 Op 5: None of these Correct Op: 1 Ques. If x = (1/2)(2p+2q-r), y = (1/3)(-p-2q+3r) and z=(1/5)(3p-4r+5q), then the value of 2x-3y-5z is: Op 1: 0 Op 2: -q Op 3: 2 Op 4: None of these Op 5: Correct Op: 2 Ques. The roots of the quadratic equation 6x2-5x+1=0 are: Op 1: 2,3 Op 2: 1/2,1/3 Op 3: 3,4 Op 4: 1/3,1/4 Op 5: None of these Correct Op: 2

Ques. If a = 16, b=25, the value of 1/(a-1/2 - b-1/2) is:

Op 1: 10

Op 2: 15

Op 3: 20

Op 4: 25

Op 5: 30

Correct Op: 3

Ques. 3a2 (ab+bc+ca) =

Op 1: 3a2+3a2bc+3a3c

Op 2: 3a3b+3a2bc+3c

Op 3: 3a3b+3a2bc+3a3c

Op 4: a3b+abc+a2c

Op 5: None of these

Correct Op: 3

Ques. x4y-xy4 =

Op 1: xy(x-y)(x2 + xy + y2)

Op 2: xy(x+y)(x2-xy+y4)

Op 3: x(xy-1)(x2-xy+y)

Op 4: (x3+y2)xy

Op 5: None of these

Correct Op: 1

Ques. Factors of 6a2-25a+4 are:

Op 1: (a+4) (a-6)

Op 2: (a-4) (6a+1)

Op 3: (a-4)(6a-1)

Op 4: (a-6) (a-4)

Op 5: None of these

Correct Op: 3

```
Op 3: m=x-y-z
Op 4: 2m=x-y-z
Op 5: None of these
Correct Op: 2
Ques. If r = at2 and s = 2at, the relation among s, r and a is:
Op 1: s2=4ar
Op 2: s=ar
Op 3: s=2ar
Op 4: s2=ar
Op 5: None of these
Correct Op: 1
Ques. If a+b=6, ab=5, the value of a-b is:
Op 1: 4
Op 2: 5
Op 3: 6
Op 4: 7
Op 5: 9
Correct Op: 1
Ques. |X - 5| + 4 > 0 and |X2| < 4. Then x can be:
Op 1: 4
Op 2: 2
Op 3: 0.5
Op 4: All of these
Op 5:
Correct Op: 3
```

Ques. If f(x) = sum of all the digits of x, where x is a natural number, then what is the value of $f(101) + f(102) + f(103) + \dots$

Ques. The correct relationship after eliminating x, y and z from x+y=a, y+z=b and z+x=c and x+y+z=m, is:

Op 1: m=x+y+z Op 2: 2m=a+b+c

```
Op 1: 1000
Op 2: 784
Op 3: 999
Op 4: 1001
Op 5:
Correct Op: 4
Ques. Pawan is a very confused person. Once he wrote 1+2+3+4+5+6+7+8+9+10 = 100. In how many places you need to
change '+' with ' * ' to make the equality hold good ?
Op 1: 2
Op 2: 4
Op 3: 3
Op 4: None of these
Op 5:
Correct Op: 3
Ques. What is the highest power of 82 contained in 83!-82!?
Op 1: 3
Op 2: 2
Op 3: 164
Op 4: None of these
Op 5:
Correct Op: 1
Ques. If x = 0.75, then what is the value of the expression (1+x+x^2) + x^3/(1-x)?
Op 1: 0.25
Op 2: 4
Op 3: 1.75
Op 4: 1
Op 5:
Correct Op: 2
```

+f(200)?

minimum and maximum limits of a2-b2?
Op 1: -4
Op 2: 4
Op 3: 32/7
Op 4: - 28/6
Op 5:
Correct Op: 3
Ques. If a, b, c are roots of the equation $1x3-4x2+6.5x + 3.5 = 0$, then what is the value of a2 + b2 + c2?
Op 1: 1
Op 2: 64
Op 3: 169
Op 4: 3
Op 5:
Correct Op: 4
Ques. If $ x + y = 7$, then what is the sum of minimum and maximum values of $x + y$?
Ques. If $ x + y = 7$, then what is the sum of minimum and maximum values of $x + y$? Op 1: $3/2$
Op 1: 3/2
Op 1: 3/2 Op 2: -7
Op 1: 3/2 Op 2: -7 Op 3: 7
Op 1: 3/2 Op 2: -7 Op 3: 7 Op 4: 0
Op 1: 3/2 Op 2: -7 Op 3: 7 Op 4: 0 Op 5:
Op 1: 3/2 Op 2: -7 Op 3: 7 Op 4: 0 Op 5:
Op 1: 3/2 Op 2: -7 Op 3: 7 Op 4: 0 Op 5: Correct Op : 4
Op 1: 3/2 Op 2: -7 Op 3: 7 Op 4: 0 Op 5: Correct Op : 4 Ques. 832.58-242.31 =779.84- ?
Op 1: 3/2 Op 2: -7 Op 3: 7 Op 4: 0 Op 5: Correct Op : 4 Ques. 832.58-242.31 =779.84-? Op 1: 179.57
Op 1: 3/2 Op 2: -7 Op 3: 7 Op 4: 0 Op 5: Correct Op : 4 Ques. 832.58-242.31 =779.84- ? Op 1: 179.57 Op 2: 199.57
Op 1: 3/2 Op 2: -7 Op 3: 7 Op 4: 0 Op 5: Correct Op : 4 Ques. 832.58-242.31 =779.84- ? Op 1: 179.57 Op 2: 199.57 Op 3: 295.05
Op 1: 3/2 Op 2: -7 Op 3: 7 Op 4: 0 Op 5: Correct Op : 4 Ques. 832.58-242.31 =779.84- ? Op 1: 179.57 Op 2: 199.57 Op 3: 295.05 Op 4: None of these
Op 1: 3/2 Op 2: -7 Op 3: 7 Op 4: 0 Op 5: Correct Op : 4 Ques. 832.58-242.31 =779.84-? Op 1: 179.57 Op 2: 199.57 Op 3: 295.05 Op 4: None of these Op 5:
Op 1: 3/2 Op 2: -7 Op 3: 7 Op 4: 0 Op 5: Correct Op : 4 Ques. 832.58-242.31 =779.84- ? Op 1: 179.57 Op 2: 199.57 Op 3: 295.05 Op 4: None of these

Ques. If a lies between 2 and 3, both included, and b lies between 4 and 6, both included, then what is the ratio of

Op 1: 1/8 Op 2: 3/4 Op 3: 3/8 Op 4: 2/5 Op 5: Correct Op: 1 Ques. The simplification of (0.2 * 0.2 + 0.02 * 0.02 - 0.4 * 0.02) / 0.36 Op 1: 0.009 Op 2: 0.09 Op 3: 0.9 Op 4: 9 Op 5: Correct Op: 2 Ques. If $13 + 23 + 33 + \dots + 93 = 2025$, then the value of $(0.11)3 + (0.22)3 + \dots + (0.99)3$ is close to: Op 1: 0.2695 Op 2: 0.3695 Op 3: 2.695 Op 4: 3.695 Op 5: Correct Op: 3 Ques. In a purse there are 30 coins, twenty one-rupee and remaining 50-paise coins. Eleven coins are picked simultaneously at random and are placed in a box. If a coin is now picked from the box, find the probability of it being a rupee coin? Op 1: 4/7 Op 2: 1/2 Op 3: 2/3 Op 4: 5/6 Op 5: Correct Op: 3

Ques. Which is the closest approximation to the product 0.3333 * 0.25 * 0.499 * 0.125 * 24?

Ques. A, B and C are three students who attend the same tutorial classes. If the probability that on a particular day exactly one out of A and B attends the class is 7/10; exactly one out of B and C attends is 4/10; exactly one out of C and A attends

is 7/10. I

Op 1: 46/100

Op 2: 63/100

Op 3: 74/100

Op 4: 99/100

Op 5:

Correct Op: 4

Ques. A box contains 10 balls numbered 1 through 10. Anuj, Anisha and Amit pick a ball each, one after the other, each time replacing the ball. What is the probability that Anuj picks a ball numbered less than that picked by Anisha, who in turn picks a lesser n

Op 1: 3/25

Op 2: 1/6

Op 3: 4/25

Op 4: 81/400

Op 5:

Correct Op: 1

Ques. A biased die has a probability of 1/4 of showing a 5, while the probability of any of 1, 2, 3, 4, or 6 turning up is the same. If three such dice are rolled, what is the probability of getting a sum of atleast 14 without getting a 6 on any die?

Op 1: 5/24

Op 2: 9/160

Op 3: 1/30

Op 4: 7/160

Op 5:

Correct Op: 4

Ques. A, B, C, D and E play the following game. Each person picks one card from cards numbered 1 through 10. The person who picks the greatest numbered card loses and is out of the game. Now the remaining four return their cards to the pack and draw again, and

Op 1: 3/14

Op 2: 4/17

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Op 3: 1/5
Op 4: 5/24
Op 5:
Correct Op: 3
Ques. Which among the following is greatest: 51/2, 111/3, 1231/6?
Op 1: 51/2
Op 2: 111/3
Op 3: 1231/6
Op 4: All are equal
Op 5:
Correct Op: 1
Ques. What are the unit's digits of 369, 6864, 4725 respectively?
Op 1: 9,6 and 6
Op 2: 6, 6 and 6
Op 3: 3,6 and 4
Op 4: None of these
Op 5:
Correct Op: 3
Ques. A = 11 * 22 * 33 * 44 * 55 * \dots 1010. How many zeroes will be there at the end of A?
Op 1: 6
Op 2: 15
Op 3: 10
Op 4: None of these
Op 5:
Correct Op: 2
Ques. If x = 3 + 31/2, then what is the value of x^2 + 9/x^2?
Op 1: 15 + 3 * 31/2
Op 2: 18 + 3 * 31/2
```

Op 3: 27 + 3 * 31/2

Op 4: None of these
Op 5:
Correct Op: 4

Ques. If x4 + 1/x4 = 47, then find the value of x3 + 1/x3
Op 1: 18
Op 2: 27
Op 3: 9
Op 4: 12
Op 5:
Correct Op: 1

Ques. The product of two numbers is 2028 and their H.C.F. is 13. The number of such pairs is:
Op 1: 1
Op 2: 2
Op 3: 3
Op 4: 4

Op 5:

Correct Op: 2