

## Infosys Test 4

1

4 men and 6 women can complete a work in 8 days, while 3 men and 7 women can complete it in 10 days. In how many days will 10 women complete it?

- ( ) 35  
( ) 40  
( ) 45  
( ) 50

Explanation: Let 1 man's 1 day's work =  $x$  and 1 woman's 1 day's work =  $y$ .

Then,  $4x + 6y = \frac{1}{8}$  and  $3x + 7y = \frac{1}{10}$ .

Solving the two equations, we get:  $x = \frac{11}{400}$ ,  $y = \frac{1}{400}$

1 woman's 1 day's work =  $\frac{1}{400}$ .

10 women's 1 day's work =  $\frac{1}{400} \times 10 = \frac{1}{40}$ .

Hence, 10 women will complete the work in 40 days

2

Two trains running in opposite directions cross a man standing on the platform in 27 seconds and 17 seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is:

- ( ) 1:2  
( ) 3:4  
( ) 3:2  
( ) none of this

Explanation: Let the speeds of the two trains be  $x$  m/sec and  $y$  m/sec respectively.

Then, length of the first train =  $27x$  metres, and length of the second train =  $17y$  metres.

$$27x + 17y = 23(x + y)$$

$$27x + 17y = 23x + 23y$$

$$4x = 6y$$

$$\frac{x}{y} = \frac{3}{2}$$

3

If selling price is doubled, the profit triples. Find the profit percent.

- ( )  $66 \frac{2}{3}$   
( ) 100  
( )  $105 \frac{1}{3}$   
( ) 120

Explanation: Let C.P. be Rs.  $x$  and S.P. be Rs.  $y$ .

Then,  $3(y - x) = (2y - x)$   $y = 2x$ . Profit = Rs.  $(y - x) = \text{Rs. } (2x - x) = \text{Rs. } x$ .

Profit % =  $\frac{x}{x} \times 100\% = 100\%$

4

The present ages of three persons in proportions 4 : 7 : 9. Eight years ago, the sum of their ages was 56. Find their present ages (in years)

- ( ) 8,20,28  
( ) 16,28,36  
( ) 20,35,45  
( ) none of this

Explanation: Let their present ages be  $4x$ ,  $7x$  and  $9x$  years respectively.

Then,  $(4x - 8) + (7x - 8) + (9x - 8) = 56$      $20x = 80$      $x = 4$ . Their present ages are  $4x = 16$  years,  $7x = 28$  years and  $9x = 36$  years respectively.

5

In how many ways can 21 books on English and 19 books on Hindi be placed in a row on a shelf so that two books on Hindi may not be together?

- ( ) 3990  
( ) 1540  
( ) 1995  
( ) 3672

Explanation: In order that two books on Hindi are never together, we must place all these books as under: X E X E X E X ... X E X Where E - denotes the position of an English book and X that of a Hindi book. Since there are 21 books on English, the number of places marked X are therefore, 22. Now, 19 places out of 22 can be chosen in

$${}^{22}C_{19} = {}^{22}C_3 = \frac{22 \times 21 \times 20}{3 \times 2 \times 1} = 1540 \text{ ways.}$$

Hence, the required number of ways = 1540.

6

An aero plane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in 1 hours, it must travel at a speed of:

- ( ) 300 kmph  
( ) 600 kmph  
( ) 360 kmph  
( ) 720 kmph

Explanation: Distance =  $(240 \times 5) = 1200$  km.

Required speed =  $1200 \div 1 \text{ hr} = 1200 \text{ km/hr} = 720 \text{ km/hr}$ .

7

Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even?

- ( ) 1/2  
( ) 3/4  
( ) 3/8  
( ) 5/16

Explanation: In a simultaneous throw of two dice, we have  $n(S) = (6 \times 6) = 36$ .

Then,  $E = \{(1, 2), (1, 4), (1, 6), (2, 1), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (3, 2), (3, 4), (3, 6), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (5, 2), (5, 4), (5, 6), (6, 1), (6, 2), (6, 3), (6, 4), (6, 5), (6, 6)\}$

$n(E) = 27$ .

**8**

A man standing at a point P is watching the top of a tower, which makes an angle of elevation of  $30^\circ$  with the man's eye. The man walks some distance towards the tower to watch its top and the angle of the elevation becomes  $60^\circ$ . What is the distance between the base of the tower and the point P?

- A.  $4\sqrt{3}$  units  
 B. 8 units  
 C. 12 units  
 data inadequate

Explanation:

So, the data is inadequate.

**9**

What least number must be added to 1056, so that the sum is completely divisible by 23?

- A. 2  
 B. 3  
 C. 18  
 D. 21

Explanation:

23) 1056 (45

92

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136

115

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21

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Required number =  $(23 - 21)$

= 2.

10

Solve 8, 27, 64, 100, 125, 216, 343, \_\_\_\_\_

- ( ) A.27  
( ) B.100  
( ) C.125  
( ) D.343

Explanation: The pattern is  $2^3, 3^3, 4^3, 5^3, 6^3, 7^3$ . But, 100 is not a perfect cube.

11

If GOLD is coded as IQNF, then WIND will be coded as:

- ( ) A.YKOF  
( ) B.YLPF  
( ) C.YKPE  
( ) D.YKPF

12

following table and answer the questions.

Number of Candidates Appeared and Qualified in a Competitive Examination from Different States over the Years.

Total number of candidates qualified from all the states together in 1997 is approximately what percentage of the total number of candidates qualified from all the states together in 1998?

State	Year									
	1997		1998		1999		2000		2001	
	App.	Qual.								
M	5200	720	8500	980	7400	850	6800	775	9500	1125
N	7500	840	9200	1050	8450	920	9200	980	8800	1020
P	6400	780	8800	1020	7800	890	8750	1010	9750	1250
Q	8100	950	9500	1240	8700	980	9700	1200	8950	995
R	7800	870	7600	940	9800	1350	7600	945	7990	885

- ( ) A.72%  
( ) B.77%  
( ) C.80%  
( ) D.83%

$$\begin{aligned} \text{Required percentage} &= \left[ \frac{(720 + 840 + 780 + 950 + 870)}{(980 + 1050 + 1020 + 1240 + 940)} \times 100 \right] \% \\ &= \left[ \frac{4160}{5230} \times 100 \right] \% \\ &= 79.54\% \approx 80\%. \end{aligned}$$

Explanation:

13

What is the average candidates who appeared from State Q during the given years?

- a)8700
- b)8760
- c)8990
- d)8920

Explanation:

14

A man purchased a cow for Rs. 3000 and sold it the same day for Rs. 3600, allowing the buyer a credit of 2 years. If the rate of interest be 10% per annum, then the man has a gain of:

- a)0%
- b)5%
- c)7.5%
- d)10

Explanation:

$c.p = \text{Rs. } 3000$   $s.p = \text{Rs. } (3600 * 100) / (100 + (10 * 2))$   $\text{Gain} = 0\%$

15

CMM, EOO, GQQ, \_\_\_\_\_, KUU

- a)GRR
- b)GSS
- c)ISS
- d)ITT

Explanation: The first letters are in alphabetical order with a letter skipped in between each segment: C, E, G, I, K. The second and third letters are repeated; they are also in order with a skipped letter: M, O, Q, S, U.

16

Which standard library function will you use to find the last occurrence of a character in a string in C?

- a)strnchar()
- b)streachar
- c)strrchar()
- d)strrchr()

Explanation: *strrchr()* returns a pointer to the last occurrence of character in a string

17

A man was engaged on a job for 30 days on the condition that he would get a

wage of Rs. 10 for the day he works, but he have to pay a fine of Rs. 2 for each day of his absence. If he gets Rs. 216 at the end, he was absent for work for ... days.

- a) 6 days
- b) 12 days
- c) 7 days
- d) 21 days

Explanation:

The equation portraying the given problem is:

$10 * x - 2 * (30 - x) = 216$  where x is the number of working days.

Solving this we get  $x = 23$

Number of days he was absent was 7 (30-23) days

**18**

Eight friends Harsha, Fakis, Balaji, Eswar, Dhinesh, Chandra, Geetha, and Ahmed are sitting in a circle facing the center. Balaji is sitting between Geetha and Dhinesh. Harsha is third to the left of Balaji and second to the right of Ahmed. Chandra is sitting between Ahmed and Geetha and Balaji and Eshwar are not sitting opposite to each other. Who is third to the left of Dhinesh?

- a) Fakis
- b) Eswar
- c) Chandra
- d) Geetha

**19**

If a light flashes every 6 seconds, how many times will it flash in  $\frac{3}{4}$  of an hour?

- a) 450
- b) 451
- c) 350
- d) 425

Explanation:

There are 60 minutes in an hour.

In  $\frac{3}{4}$  of an hour there are  $(60 * \frac{3}{4})$  minutes = 45 minutes.

In  $\frac{3}{4}$  of an hour there are  $(60 * 45)$  seconds = 2700 seconds.

Light flashed for every 6 seconds.

In 2700 seconds  $2700/6 = 450$  times.

The count start after the first flash, the light will flashes 451 times in  $\frac{3}{4}$  of an hour.

**20**

A cube is cut in two equal parts along a plane parallel to one of its faces. One piece is then coloured red on the two larger faces and green on the remaining, while the other is coloured green on two smaller adjacent faces and red on the remaining. Each is then cut into 32 cubes of same size and mixed up. How many cubes have only one coloured face each ?

- a) 32
- b) 8
- c) 16
- d) 0

Explanation:

8 from (I) and 8 from (II)

Therefore 8 from each

**21**

A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting ?

- a) Between B and D
- c) Between E and D

Explanation:

E B A C D

Therefore A is sitting beside B and C

**22**

**Statements:** All the locks are keys. All the keys are bats. Some watches are bats.

**Conclusions:**

1. Some bats ate locks.
2. Some watches are keys.

3. All the keys are locks.

- a) Only (1) and (2)
- b) Only (1)
- c) Only (2)
- d) Only (1) and (3)

23

**Statements:** Some questions are answers. Some answers are writers. All the writers are poets.

**Conclusions:**

1. Some writers are answers.
2. Some poets are questions.
3. All the questions are poets.

4. Some poets are answers.

a) Only (1) and (2)

b) Only (1) and (4)

c) Only (1) and (3)

d) Only (2) and (4)

24

**Statements:** Some envelopes are gums. Some gums are seals. Some seals are adhesives.

**Conclusions:**

1. Some envelopes are seals.
2. Some gums are adhesives.
3. Some adhesives are seals.

4. Some adhesives are gums.

a) Only (3)

b) Only (1)

c) Only (2)

d) Only (4)

25

**Statements:** All the papers are books. All the bags are books. Some purses are bags.

**Conclusions:**

1. Some papers are bags.
2. Some books are papers.

3. Some books are purses.

a) Only (1)

b) Only (2) and (3)

c) Only (1) and (2)

d) Only (1) and (3)

26

A software engineer has the capability of thinking 100 lines of code in five minutes and can type 100 lines of code in 10 minutes. He takes a break for five minutes after every ten minutes. How many lines of codes will he complete typing after an hour?

- a)250
- b)220
- c)150
- d)200

27

A student divided a number by  $\frac{2}{3}$  when he required to multiply by  $\frac{3}{2}$ . Calculate the percentage of error in his result.

- a)1
- b) $\frac{1}{4}$
- c)0
- d)3

Explanation: Since  $3x / 2 = x / (2 / 3)$

28

A dishonest shopkeeper professes to sell pulses at the cost price, but he uses a false weight of 950gm. for a kg. His gain is ...%.

- a)3.5
- b)5
- c)5.3
- d)4

Explanation: He sells 950 grams of pulses and gains 50 grams.

If he sells 100 grams of pulses then he will gain  $(50 / 950) * 100 = 5.26$

29

Which of the following is larger than  $\frac{3}{5}$ ?

- A.  $\frac{1}{2}$
- B.  $\frac{39}{50}$
- C.  $\frac{7}{25}$
- D.  $\frac{3}{10}$
- E.  $\frac{59}{100}$

30

Verbal ability test(40 questions in 35 minutes)

Read the each 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. If there is no error, the answer is 'D'. (Ignore the errors of punctuation, if any)

- a) We discussed about the problem so thoroughly
- b) on the eve of the examination
- c) that I found it very easy to work it out.
- d) No error.

**31**

Find the grammar error?

- a) An Indian ship
- b) laden with merchandise
- c) got drowned in the Pacific Ocean
- d) No error

**32**

Find the grammatical error?

- a) She hardly knew how to do that problem,
- b) and so went to her teacher, and asked her,
- c) "How this problem is to be solved?"
- d) No error

**33**

Find the grammatical error?

- a) I could not put up in a hotel
- b) because the boarding and lodging charges
- c) were exorbitant
- d) No error

**34**

Find the grammatical error?

- a) I suppose
- b) you have heard the latest news:
- c) John has married that girl.
- d) No error.

**35**

Passage 1

The enjoyment of physical possession of things would seem to be one of the prerogatives of wealth which has been little impaired. Presumably nothing has happened to keep the man who can afford them from enjoying his Rembrandt and his homegrown orchids. But enjoyment of things has always been associated with the third prerogative of wealth which is the distinct it confers. In a world where nearly everyone was poor, the distinction was very great. It was the natural consequence of rarity. In England it is widely agreed, the ducal families are not uniformly superior. There is a roughly normal incidence of intelligence and stupidity, good taste and bad taste, morality, immorality. But very few people are dukes and duchesses,

although the later have become rather more frequent with modern easing of divorce laws. As a result, even though they may be intrinsically unexceptional they are regarded with some awe. So it has long have been with the rich. Were dukes numerous their position would deteriorate. As the rich have become more numerous, they have inevitably becomes a debased currency.

The distinction conferred by wealth

- a) was unfair to the poor
- b) was unlikely to spread throughout the world
- c) was very great when there were many rich people
- d) was very great when there were few rich people

**36**

The enjoyment of the physical possession of things

- a) is one of the privileges of wealth which has not been changed
- b) is one of the privileges of wealth which should be curtailed
- c) has little to do with the prerogatives of wealth
- d) is a prerogative of wealth which cannot be disputed

**37**

Ducal families in England

- a) are generally agreed to be fairly common
- b) are generally agreed to be fairly superior
- c) are superior because they are rich
- d) are generally agreed not to be always better than others

**38**

There are more duchesses now because

- a) it is easier for dukes to divorce and remarry
- b) dukes are more immoral than they used to be
- c) their position has deteriorated
- d) they are debased

**39**

Among the ducal families

- a) there is great deal of immortality
- b) there is a fairly even spread of virtues and vices
- c) there is a great deal of bad taste
- d) there is either great intelligence or great stupidity

**40**

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

When he

P : did not know  
Q : he was nervous and  
R : heard the hue and cry at midnight  
S : what to do

The Proper sequence should be:

- a) RQPS
- b) QSPR
- c) SQPR
- d) PQRS

41

Then

P : it struck me  
Q : of course  
R : suitable it was  
S : how eminently

The Proper sequence should be:

- a) SPQR
- b) QSRP
- c) PSQR
- d) SRPQ

42

I read an advertisement that said

P : posh, air-conditioned  
Q : gentleman of taste  
R : are available for  
S : fully furnished rooms

The Proper sequence should be:

- a) PQRS
- b) PSRQ
- c) PSQR
- d) SRPQ

43

Since the beginning of history

P : have managed to catch  
Q : the Eskimos and Red Indians  
R : by a very difficult method  
S : a few specimens of this aquatic animal

The Proper sequence should be:

- a) QRPS
- b) SQPR
- c) SQRP
- d) QPSR

**44**

In the following the questions choose the word which best expresses the meaning of the given word.

**CORPULENT**

- a) Lean
- b) Gaunt
- c) Emaciated
- d) Obese

**45**

**EMBEZZLE**

- a) Misappropriate
- b) Balance
- c) Remunerate
- d) Clear

**46**

**AUGUST**

- a) Common
- b) Ridiculous
- c) Dignified
- d) Petty

**47**

**CANNY**

- a) Obstinate
- b) Handsome
- c) Clever
- d) Stout

**48**

**INDICT**

- a) Condemn
- b) Reprimand
- c) Accuse

d) Allege

49

STRINGENT

- a) Dry  
 b) Strained  
 c) Rigorous  
 d) Shrill

50

The small child does whatever his father **was done**

- a) has done  
 b) did  
 c) does  
 d) had done

51

**You need not come unless you want to.**

- a) You don't need to come unless you want to  
 b) You come only when you want to  
 c) You come unless you don't want to  
 d) You needn't come until you don't want to

52

There are not many men who are so famous that they are frequently referred to by their **short names** only

- a) initials  
 b) pictures  
 c) signatures  
 d) middle name

53

The man to **who I sold** my house was a cheat.

- a) to whom I sell  
 b) to who I sell  
 c) to who was sold to  
 d) to whom I sold

54

They **were all shocked at** his failure in the competition.

- a) were shocked at all
- b) had all shocked at
- c) had all shocked by
- d) had been all shocked on
- e) no correction required

**55**

Given below arrange the given words in a proper order to make a meaningful sentence.

1. was 2. and 3. suresh 4. kind 5. loving

- a) 31425
- b) 34251
- c) 12345
- d) 54213
- e) 15243

**56**

1. Tea 2. have 3. that  
4. some 5. before

- a) 43251
- b) 24315
- c) 24153
- d) 52431
- e) 41325

**57**

1. not 2. hotel 3. comfortable  
4. was 5. the

- a) 34521
- b) 53412
- c) 34152
- d) 41352
- e) 52413

**58**

1. I 2. help 3. not  
4. you 5. did

- a) 24351
- b) 15324
- c) 45231
- d) 43152
- e) 52431

**59**

1. not    2. Hari 3. away  
4. run    5. did

- a) 13542
- b) 35412
- c) 52431
- d) 25143
- e) 21345

## 60

### Passage 2

Until the end of his first year at school, Cyril retained many of the pleasures and pursuits he had brought with him from home, and he kept an old interest in butterflies and fossils. His grandmother had presented him with a fine bird's eggs cabinet, but he could never bring himself to risk in climbing trees. Once or twice he dissected dead birds from sheer determination to overcome his horror of the operation. Probably it was his envy of those physically unlike himself that brought on a phase during which he drew massive athletes with thick necks and square shoulders. Again he was pitying himself for what he could never be.

The reason Why Cyril made drawings of athletes was that

- a) though he admired them, he lacked a fine physique himself
- b) he loved violent exercises
- c) athletics was a passion with him
- d) he had to complete an assignment

## 61

Cyril dissected dead birds to

- a. see if he would like to become a doctor
- b. please his grandmother
- c. satisfy his curiosity
- d. overcome the fear of act

## 62

Until the end of first year, Cyril retained his interest in

- a). bird's eggs
- b) butterflies and fossils
- c) dissecting bird's
- d) drawing pictures of athletes

## 63

Cyril did not want to climb trees because he

- a) loved to play on the ground
- b) was scared of falling down
- c) disliked trees
- d) thought it was childish

64

Cyril's early schooling was in some ways like home life because

- a) he had all his old friends with him
- b) the food and the climate were same as at home
- c) he kept on doing what gave joy and recreation at home
- d) his family visited him often

65

Fate smiles ..... those who untiringly grapple with stark realities of life.

- a) with
- b) over
- c) on
- d) round

66

The miser gazed ..... at the pile of gold coins in front of him.

- a) avidly
- b) admiringly
- c) thoughtfully
- d) earnestly

67

Catching the earlier train will give us the ..... to do some shopping.

- a) chance
- b) luck
- c) possibility
- d) occasion

68

I saw a ..... of cows in the field.

- a) group
- b) herd
- c) swarm
- d) flock

69

The grapes are now ..... enough to be picked.

- a) ready
- b) mature
- c) ripe

d) advanced

**70**

Piyush behaves strangely at times and, therefore, nobody gets ..... with him.

about

through

along

up