





Ashima Garg

Course: GATE
Computer Science Engineering(CS)



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SINGLE SUBJECT: GENERAL APTITUDE (GATE - 2019) - REPORTS

OVERALL ANALYSIS COMPARISON REPORT SOLUTION REPORT

ALL(33) CORRECT(26) INCORRECT(4) SKIPPED(3)

Q. 1

If price of wheat is increased by 20%, then by how much percentage must a family reduce their consumption to have no extra expenditure?

Solution Video Have any Doubt?

 $18\frac{2}{11}$ %

В

$$9\frac{1}{11}\%$$

C 20%

D

$$16\frac{2}{3}\%$$

Your answer is Correct

Solution:

(d)

Change in consumption = $\frac{\text{Percentage change in rate} \times 100}{100 + \text{Percentage change in rate}}$

$$= \frac{20 \times 100}{100 + 20} = \frac{2000}{120} = 16\frac{2}{3}\%$$

QUESTION ANALYTICS

Q. 2

In a family of 10 members, average weight is increased by 1 kg, when one family member of 80 kg is replaced by a new member. Then what will be the weight of new member?

FAQ Solution Video Have any Doubt?

A 100 kg

> В 85 kg

> > C 90 kg

Your answer is Correct

Solution:

(c)

Weight of new member = $80 + 10 \times 1 = 90 \text{ kg}$







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Q. 3

How many numbers lie between 300 and 600 in which 4 comes only one time?

Solution Video | Have any Doubt ?

Α

108

В 99

С

88

D

117

Your answer is **Correct**

Solution:

(d)

```
304, 314 .... 394 (except 344) = 9 numbers

340, 341 .... 349 (except 344) = 9 numbers

400, 401 .... 409 (except 404) = 9 numbers

410, 411 .... 419 (except 414) = 9 numbers

420, 421 .... 429 (except 424) = 9 numbers

430, 431 .... 439 (except 434) = 9 members

440, 441 .... 449 (all excepted) = 0 numbers

450, 451 .... 459 (except 454) = 9 numbers

460, 461 .... 469 (except 464) = 9 numbers

470, 471 .... 479 (except 474) = 9 numbers

480, 481 .... 489 (except 484) = 9 numbers

490, 491 .... 499 (except 494) = 9 numbers

504, 514 .... 594 (except 544) = 9 numbers

540, 541 .... 549 (except 544) = 9 numbers

Total = 117 numbers
```

QUESTION ANALYTICS

Q. 4

The ratio of the radius of two spheres is 2:1. What will be the ratio of their surface area?

Solution Video Have any Doubt?

А

8:3

B 4:1

Your answer is Correct

Solution:

(b)

Let radii of the circles be 2r and r.

Then ratio of surface area = $\frac{4\pi(2r)^2}{4\pi r^2}$ = 4:1

С







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 $\sqrt{2}:1$

QUESTION ANALYTICS

Q. 5

A bike is stolen at 5:00 AM. The thief drives it towards east at a speed of 50 km/hr. The theft is discovered at 5:30 AM and a police car is set off towards east at 60 km/hr. At what time will the car overtake the bike?

Solution Video | Have any Doubt ? | |

Α

8:00 AM

Your answer is Correct

Solution:

(a)

$$\frac{d}{50} - \frac{d}{60} = \frac{1}{2}$$

$$\frac{d}{300} = \frac{1}{2}$$

$$d = 150$$

$$t = \frac{150}{50} = 3 \text{ hours}$$

Hence, the car will overtake the bike at 8:00 AM.

В

8:30 AM

C

9:00 AM

9:30 AM

QUESTION ANALYTICS

Q. 6

Two vessels P and Q contain wine and water in the ratio of 8:5 and 5:2 respectively. Find the ratio in which these mixtures are to be mixed to get a new mixture containing wine and water in the ratio of 9:4?

Solution Video | Have any Doubt ? |

Α 7:3

В

3:7

С

7:2

D 2:7

Your answer is **Correct**

Solution:

(d)

Wine in 1 litre mixture of $P = \frac{8}{13}l$







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Let a fides of f and (1 - a) fides of & are hinted.

$$\frac{8}{13}x + \frac{5}{7}(1-x) = \frac{9}{13}$$

$$\Rightarrow \frac{56x + 65 - 65x}{91} = \frac{63}{91}$$

$$2 = 9x$$

$$x = \frac{1}{2}$$

$$(1-x) = 1-\frac{2}{9} = \frac{7}{9}$$

Required ratio =
$$\frac{x}{1-x} = 2:7$$

QUESTION ANALYTICS

Q. 7

Choose the option which is closest in meaning to the word GERMANE.

Solution Video Have any Doubt?

Impertinent

В

Α

Evolve

Opposite

Relevant

Your answer is Correct

Solution:

(d)

GERMANE means something that is relevant, pertinent or apposite to a subject us consideration.

QUESTION ANALYTICS

Q. 8

Choose the option which is exact opposite of the word REMISS.

Solution Video | Have any Doubt ? |

Α

Negligent

В

Dutiful

Your answer is Correct

Solution:

(b)

Remiss means lacking care or attention to duty. So, its opposite will be dutiful. Option (b) is most appropriate answer.

 \mathbb{C}

Harmful







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QUESTION ANALYTICS Q. 9 Given are 4 options with a pair of words in each option. Identify the pair that has the same/ similar relationship as the pair. **GRAVITY: PULL** Solution Video Have any Doubt? South Pole: Direction Water: Storm Magnetism : Attraction Your answer is **Correct** Solution: (c) Pull is the property that gravity has, and in the same way attraction is the property that magne Censor: Play **QUESTION ANALYTICS** Q. 10 Choose the option which can be substituted for the given sentence. "A remedy for all diseases" Solution Video Have any Doubt? Panacea Your answer is Correct Solution: Panacea is a solution or remedy for all difficulties or diseases. Pinnacle is the highest point or level. Panache is flamboyant confidence of style or manner. Pangaea was a super-continent in early geologic time. В Pinnacle \mathbb{C}

Pangaea

Panache

QUESTION ANALYTICS

Q. 11







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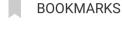
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24

Your answer is Correct24

Solution:

Let the time taken to fill the tank = T mins After 16 minutes, part of the tank filled

$$= 16\left(\frac{1}{48} + \frac{1}{60}\right) = \frac{3}{5}$$

Balance to be filled by B alone = $1 - \frac{3}{5} = \frac{2}{5}$

$$\frac{1}{2/5} = \frac{B \times 60}{B \times T}$$

$$T = \frac{2}{5} \times 60 = 24$$
 minutes

QUESTION ANALYTICS

Q. 12

A sum of money deposited at compound interest doubles itself in 3 years. It will amount to sixteen times at the same rate in _____ years.

Solution Video Have any Doubt?

12

Correct Option

Solution:

Let the sum = 100, Time = 3 years Amount due in 3 years = 200

$$100\left(1 + \frac{r}{100}\right)^3 = 200$$

$$\Rightarrow$$

$$\left(1 + \frac{r}{100}\right)^3 = 2$$

$$\Rightarrow$$

$$\left(1 + \frac{r}{100}\right) = 2^{1/3}$$

Let the amount become 16 times in n years.

$$100 \left(1 + \frac{r}{100} \right)^n = 1600$$

$$\left(1 + \frac{r}{100}\right)^n = 16$$

From eq. (i) and eq. (ii), we get

$$(2^{1/3})^n = 16 = 2^4$$

$$\frac{n}{3} = 4$$

$$n = 12$$

Your Answer is 6

QUESTION ANALYTICS





Solution Video Have any Doubt?

Sign out



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3080

Correct Option

Solution:

3080

÷.

Let r and R be the radii of park and road. Circumference of the park = 176 m

$$2\pi r = 176 \, \text{m}$$

$$r = \frac{176 \times 7}{22 \times 2} = 28 \text{ m}$$

$$R = (28 + 14) = 42 \text{ m}$$

$$R = (28 + 14) = 42 \text{ m}$$

Area of the road = $\pi R^2 - \pi r^2$

$$= \pi(R^2 - r^2)$$

$$= \pi(42^2 - 28^2)$$

$$= \frac{22}{7}(42 - 28)(42 + 28)$$

$$= 3080 \text{ m}^2$$

QUESTION ANALYTICS

Q. 14

A student scored 84, 80 and 76 in Mathematics, Economics and English examination. If he presents his scores in a pie chart, the central angle for his score in Mathematics will be _

Solution Video Have any Doubt?

126

Correct Option

Solution:

126

Total marks obtained = 84 + 80 + 76 = 240

In pie chart, if 240 marks = 360°

Then 1 mark =
$$\frac{360^{\circ}}{240}$$

$$\therefore$$
 84 marks = $\frac{360^{\circ}}{240} \times 84 = 126^{\circ}$

Your Answer is 100.8

QUESTION ANALYTICS

Q. 15

A number when divided by 225 gives a remainder of 32. The remainder when the same number is divided by 15 will be _____

Solution Video Have any Doubt?

2

Your answer is Correct2

Solution:

Let number be x

x = 225Q + 32, where Q the quotient can have the values 1, 2, 3 etc.

 $x = (15 \times 15)Q + (15 \times 2) + 2$

Divide x by 15, we get the remainder 2.







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Q. 16

Virat has 220 candies to distribute among 10 children. If each child receives at least 1 candy and no two children receive the same number of candies, then the maximum number of candies that a child can receive

Solution Video Have any Doubt?



175

Correct Option

Solution:

175

Child 1 = 1 Candy Child 2 = 2 Candies

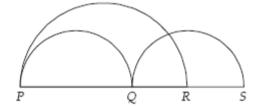
Child 3 = 3 Candies

And so on, until we find that child 9 has been given 9 candies. We now want to subtract a candies assigned to the first 9 children from our 220 candies, and given the rest to child 10 220 - (9 + 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1) = 175 candies

QUESTION ANALYTICS

Q. 17

If diameter PQ = diameter QS and $QR = \frac{2}{5}$ of PR, what is the ratio of circumference of larger semicircle to that of the combined circumference of the two equal smaller semicircles?



Solution Video Have any Doubt?

Α

6:5

В

5:3

С

9:25

5:6

Correct Option

Solution:

(d)

QR: PR = 2:5 i.e. PQ: PR = 3:5

or we can simply say PQ = 3 and PR = 5

then QS = PQ = 3

The diameter of the larger semicircle PR = 5

The sum of the diameters of two smaller semicircles PQ + QS = 3 + 3 = 6

Ratio of diameters = 5:6

This will be the same as the ratio of circumferences i.e 5:6.

QUESTION ANALYTICS







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Α

Your answer is **Correct**

Solution video Have any Doubt :

Solution:

Ways to select 2 females = 5C_2

÷.

Ways to select 1 male = ${}^{7}C_{1}$ Required probability = $\frac{{}^{5}C_{2} \times {}^{7}C_{1}}{{}^{12}C_{3}} = \frac{7}{22}$

В 35

С

3

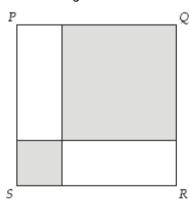
D

21

QUESTION ANALYTICS

Q. 19

If square PQRS has an area of 50 unit², and the area of the larger shaded square is 9 times the area of the smaller shaded square, what is the length of one side of the smaller shaded square?



Solution Video Have any Doubt?

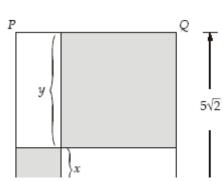
 $2\sqrt{2}$ unit

В $\frac{5}{2\sqrt{2}}$ unit

Your answer is Correct

Solution:

(b)









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$$3x = y$$

$$3x = y$$

$$x + 3x = 5\sqrt{2}$$

$$4x = 5\sqrt{2}$$

 $x = \frac{5\sqrt{2}}{4} = \frac{5}{2\sqrt{2}}$ unit

С

 $\frac{6}{2\sqrt{2}}$ unit

D

 $\frac{5}{3}$ unit

QUESTION ANALYTICS

Q. 20

On a certain test, 18 points are awarded for each correct answer, and 14 points are deducted for each incorrect or unanswered question. Narendra received a total score of 0 points on the test. If the test has fewer than 30 questions, how many questions are on the test?

Have any Doubt?

Α

16

Your answer is Correct

Solution:

(a)

Let C = number of questions answered correctly

I = number of questions answered incorrectly or unanswered

Total score = 18C - 14I

$$18C - 14I = 0$$

$$18C = 14I$$

⇒

$$C = \frac{7I}{9}$$

Now, C has to be an integer, this is possible only if I is divisible by 9.

If

I = 9, C = 7 i.e. I + C = 16

If

$$I = 18, C = 14 i.e. I + C = 32$$

It is given that the test has fewer than 30 questions

Thus, answer is 16.

В

17

C 23

D

27

QUESTION ANALYTICS

Q. 21

If *PQRS* is a square, what are the coordinates of *R*?







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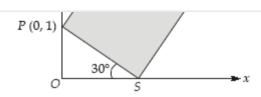
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Solution Video Have any Doubt?

 $(2\sqrt{3},\sqrt{3})$

B $\left(\sqrt{3}, 1 + \sqrt{3}\right)$

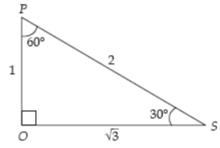
 $(\sqrt{3},2\sqrt{3})$

 $(1+\sqrt{3},\sqrt{3})$

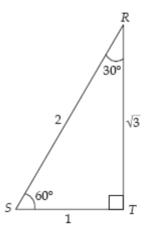
Your answer is Correct

Solution:

(d) In Δ*POS*,



Drop a perpendicular from R on x-axis at point T. ΔPOS and ΔRST are similar



$$OS + ST = \sqrt{3} + 1$$

$$RT = \sqrt{3}$$

 \therefore Coordinates of point $R = (1 + \sqrt{3}, \sqrt{3})$

QUESTION ANALYTICS

Q. 22

Rahul invests ₹100 in an account that pays 12% annual interest: the interest is paid once, at the end of the year. Sonia invests ₹100 in an account that pays 12% annual interest compounding quarterly. At the end of one full year, compared to Rahul's account, approximately how much more does Sonia's account have?

Solution Video | Have any Doubt ?







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At the end of year,

Rahul's money =
$$100 \times 1.12 = ₹112$$

Sonia's money =
$$100\left(1 + \frac{12}{4 \times 100}\right)^4$$

The formula we used for Sonia is:

$$V = P \left(1 + \frac{r}{100n} \right)^{nt}$$

where V = Total value, P = Principal, r = Annual interest rate, n = number of times per invested, t = number of years.

В

₹2.20

С

₹1.10

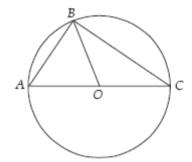
D

₹3.30

QUESTION ANALYTICS

Q. 23

In given figure below, O is the center of the circle. If $\angle BCO = 30^{\circ}$ and $BC = 12\sqrt{3}$, what is the area of triangle *ABO*?



Solution Video | Have any Doubt? | | | | | |

Α

 $12\sqrt{3}$ unit²

В

 $24\sqrt{3}$ unit²

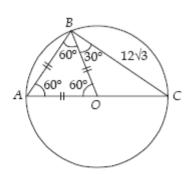
С

 $36\sqrt{3}$ unit²

Your answer is Correct

Solution:

(c)









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EXCLUSIVE OFFER FOR OTS STUDENTS ONLY ON BOOK PACKAGES $\Rightarrow \qquad 432 = 3r^2$ $\Rightarrow \qquad r = 12$

Now, area of equilateral triangle = $\frac{\sqrt{3}}{4}$ (side)²

Area =
$$\frac{\sqrt{3}}{4}(12)^2 = \frac{\sqrt{3}}{4}(144) = 36\sqrt{3} \text{ unit}^2$$

D

 $48\sqrt{3}$ unit²

QUESTION ANALYTICS

Q. 24

Choose the option that best substitutes the underlined part of the sentence: TCS is edging closer to become the country's first 100 bn \$ company. The company is fortunate to have excellent relationships among its employees: they each have a relationship of respect for all the others.

Solution Video | Have any Doubt? | | | | | |

A +h

they each have a relationship of respect for all the others.

В

they have respect for one another.

Your answer is Correct

Solution:

(b)

This is a situation in which there is the same relationship, respect, between any possible par people in the group. This is a saturation that calls for the structure "each other" or "one anoth Choice (a) doesn't use this, and what is used is very wordy and awkward, so it is incorrect. These structures, "each other" and "one another", demand a plural subject. Choices (c) and make the mistake of using a singular subject, so these are incorrect.

Option (b) is the right answer.

С

each one has respect for one another

D

they each have a relationship of respect for each other

QUESTION ANALYTICS

Q. 25

The passage below consists of six sentences. The first and sixth sentence are given in the beginning. The middle four sentences have been jumbled up. These are labelled as P, Q, R and S. Find out the proper order for the four sentences.

- S1: He said on the phone that he would report for duty next day.
- P: We found it locked.
- O: But he did not.
- R: We waited for few more days then we decided to go to his place.
- S: Even after that we waited for him quite a few days.
- S6: Eventually we reported to the police.

Solution Video | Have any Doubt ?

Α

RPSQ







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C QRPS Your answer is **Correct** Solution: (c) D SQRP **QUESTION ANALYTICS** Q. 26 Below 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. It would P: that they were quite in the dark Q : about the policy of management R: appear from their statement S: in dealing with the strike The proper sequence should be Solution Video Have any Doubt?

SRPQ

RPQS

Correct Option

Solution:

"It would appear ..." can be the only coherent beginning of the sentence. Thus the first would be R. Since R says "their statement", sentence P would follow it because it also says, " they ..."

Option (b) is the correct answer.

SQRP

RSQP

Your answer is Wrong

QUESTION ANALYTICS

Q. 27

The ratio of two positive numbers is 4 : 3. If x is added to each number then the new ratio will be 5 : 4, and the sum of the new numbers will be 117. The value of x is _

Solution Video Have any Doubt?

13

Your answer is Correct13

...(i)

Solution:

(13)

Let the numbers be P and Q

 $\frac{P}{Q} = \frac{4}{3}$ P = 4y, Q = 3y







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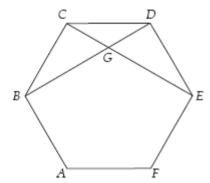


EXCLUSIVE OFFER FOR OTS STUDENTS ONLY ON BOOK PACKAGES $\Rightarrow y = x$ Sum of new numbers = 5x + 4x = 117 $\Rightarrow 9x = 117$ $\Rightarrow x = 13$

QUESTION ANALYTICS

Q. 28

In the figure, ABCDEF is a regular hexagon. The measure of $\angle DGE$ is _____ degrees.



Thave any boubt

60

Your answer is Correct60

Solution:

٠.

60

Sum of angles in n sided polygon = (n - 2) 180°

In hexagon n = 6

Each angle =
$$\frac{720^{\circ}}{6}$$
 = 120°

Sum = $(6 - 2)180 = 720^{\circ}$

Now, in $\triangle CDE$. CD = DE, so it is an isosceles triangle. The angle at $D = 120^{\circ}$, so other two ϵ must be 30° each. So $\angle DEC = \angle DCE = 30^{\circ}$.

Now,

$$\angle CDG = \angle DCG = 30^{\circ}$$

$$\angle DGE = 180^{\circ} - \angle DGC = 180^{\circ} - 120^{\circ} = 60^{\circ}$$

QUESTION ANALYTICS

Q. 29

A company has 3 managers, 15 executives, 82 assistants, and no other employees. The average salary for 15 executives is $\sqrt[3]{40,000}$ and the average salary for the 82 assistants is $\sqrt[3]{12,500}$. If the average salary across all three types of employees is $\sqrt[3]{22,250}$, then what is the average salary of the 3 managers?

3S = 2225000 - 600000 - 1025000

Solution Video | Have any Doubt ?

200000

Your answer is Correct200000

Solution:

200000

Let the average salary of managers be S'.

 $15 \times 40000 + 82 \times 12500 + 3 \times S = 100 \times 22250$

⇒

3S = 600000 S = ₹200000







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Your answer is Correct120

Solution:

120

 $90 = 2 \times 3 \times 3 \times 5$

 $18 = 2 \times 3 \times 3$

 $Q = 2 \times 3 \times 3 = 18$

 $51 = 3 \times 17$

 $34 = 2 \times 17$

 $P = 2 \times 3 \times 17 = 102$

P + Q = 18 + 102 = 120

QUESTION ANALYTICS

Q. 31

Six children A, B, C, D, E and F are going to sit in six chairs in a row. Child E must be somewhere to the left of child F. How many possible configurations are there for the children?

Solution Video Have any Doubt?

360

Your answer is Correct360

Solution:

360

With no restrictions, the six children can be arranged in 6! ways i.e. 720 ways.

In all these arrangements it is just as likely for E to be on the left of F as it is for E to be on the 1 of F.

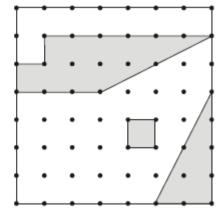
Therefore, exactly half must have E to the right of F, and exactly half must have E to the left

Therefore, exactly $\frac{720}{2} = 360$ of the arrangements have E to the left of F.

QUESTION ANALYTICS

Q. 32

The big outside square has an area of 84 unit², and the dots are all equally spaced, forming smaller squares. The sum of the areas of the shaded regions is $___$ unit².



Solution Video | Have any Doubt ?

24

Your answer is Correct24

Solution:

24

We can spend time figuring out the areas of the three individual irregular shapes. Instead, le rearrange the three to form this:







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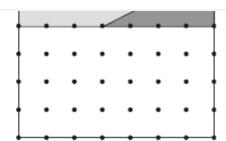
ASK AN EXPERT



OFFER



EXCLUSIVE OFFER FOR OTS STUDENTS ONLY ON BOOK PACKAGES



Here we see that the shaded area is 2/7 of the whole square.

Shaded area =
$$\frac{84 \times 2}{7}$$
 = 24

QUESTION ANALYTICS

Q. 33

The sum of all integers from 46 to 156 inclusive is _____



11211

Correct Option

Solution:

11211

Sum of all integers from 1 to 156 =
$$\frac{156 \times 157}{2}$$
 = 12246

Sum of all integers from 1 to 45 =
$$\frac{45 \times 46}{2}$$
 = 1035

Your Answer is 280830

QUESTION ANALYTICS