



Kunal Jha  
 Course: GATE  
 Computer Science Engineering(CS)

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## GENERAL APTITUDE-1: (GATE - 2021) - REPORTS

OVERALL ANALYSIS    COMPARISON REPORT    **SOLUTION REPORT**

ALL(17)    CORRECT(0)    INCORRECT(0)    SKIPPED(17)

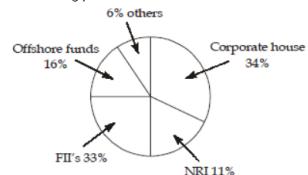
Q. 1

Solution Video

Have any Doubt ?



The following pie-chart shows the amount of subscription generated for the India bonds from differential categories of investors.



If the investments by NRI's are Rs. 4000 crore, then the investment by corporate house and FII's together is

A 24,000 crore

B 24,363 crore

Correct Option

Solution :

(b)

Given, investment by NRI's 11% are equal to 4000 crore.

∴ Investment by corporate house and FII's =  $33\% + 34\% = 67\%$

Investments by corporate house and FII's 67% are equal to  $\frac{4000}{11} \times 67 = 24,363 \text{ crore}$

C 25,423.4 crore

D 25,643.3 crore

QUESTION ANALYTICS



Q. 2

FAQ    Solution Video

Have any Doubt ?



The area of a circle is  $220 \text{ cm}^2$ . The area of square inscribed in this circle will be

A 49  $\text{cm}^2$

B 70  $\text{cm}^2$

C 140  $\text{cm}^2$

Correct Option

Solution :

(c)

Area of circle,  $\pi R^2 = 220$

$$R^2 = 220 \times \frac{7}{22} = 70$$

Now,  $R = \frac{1}{2} \times \text{diagonal}$   
 $\text{diagonal} = 2R$



$$\therefore \text{Area of the square} = \frac{1}{2} \times 4R^2 = 2R^2 = 140 \text{ cm}^2$$

D 150  $\text{cm}^2$

QUESTION ANALYTICS



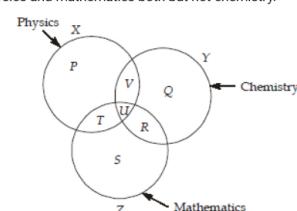
Q. 3

Solution Video

Have any Doubt ?



The diagram below represents the student who study physics, chemistry and mathematics. Study the diagram and identify the region which represents the students who study physics and mathematics both but not chemistry.



A T

Correct Option

**Solution :**  
 (a)  
 The required region is the one which is common to circles X and Z but lies outside circle Y. i.e. T.

**B** P + T + S

**C** V

**D** P + T + S + R + U + V

QUESTION ANALYTICS



Q. 4

Solution Video

Have any Doubt ?



Select the missing element of the series: AB DEF HIJK ? STUVWX

**A** MNOPQ

Correct Option

**Solution :**

(a)  
 The number of letters in the term goes on increasing by 1 at each step. Each term consists of consecutive letters in alphabetical order. The last letter of each term and the first letter of the next term are alternate.

**B** LMNOP

**C** LMNO

**D** QRSTU

QUESTION ANALYTICS



Q. 5

FAQ Solution Video

Have any Doubt ?



In a stream running at 2 kmph, a motorboat goes 6 km upstream and back again to the starting point in 33 minutes. Find the speed of the motorboat in still water.

**A** 24 kmph

**B** 20 kmph

**C** 28 kmph

**D** 22 kmph

Correct Option

**Solution :**

(d)

Let the speed of the motorboat in still water be  $x$  kmph. Then,  
 speed downstream =  $(x + 2)$  kmph  
 speed upstream =  $(x - 2)$  kmph  
 $\therefore \frac{6}{x+2} + \frac{6}{x-2} = \frac{33}{60}$   
 $11x^2 - 240x - 44 = 0$   
 $(x - 22)(11x + 2) = 0$   
 $x = 22$

Hence, speed of motorboat in still water = 22 kmph.

QUESTION ANALYTICS



Q. 6

FAQ Solution Video

Have any Doubt ?



$\frac{38 \times 38 \times 38 + 34 \times 34 \times 34 + 28 \times 28 \times 28 - 38 \times 34 \times 84}{38 \times 38 + 34 \times 34 + 28 \times 28 - 38 \times 34 - 34 \times 28 - 38 \times 28}$  is equal to \_\_\_\_\_.

**A** 100

Correct Option

**Solution :**

100

$$\frac{a^3 + b^3 + c^3 - 3abc}{a^2 + b^2 + c^2 - ab - bc - ac} = (a + b + c)$$

$$\frac{38 \times 38 \times 38 + 34 \times 34 \times 34 + 28 \times 28 \times 28 - 38 \times 34 \times 84}{38 \times 38 + 34 \times 34 + 28 \times 28 - 38 \times 34 - 34 \times 28 - 38 \times 28} = (38 + 34 + 28) = 100$$

QUESTION ANALYTICS



Q. 7

[Solution Video](#)[Have any Doubt?](#)

A crate of mangoes contains one bruised mango for every 30 mangoes in the crate. If 3 out of every 4 bruised mangoes are considered unsaleable and there are 12 unsaleable mangoes in the crate, then how many mangoes are there in the crate \_\_\_\_\_.

480

Correct Option

**Solution :**  
480

Let the total number of mangoes in the crate be  $x$ .

$$\text{Then, } \frac{\text{number of bruised}}{30} = \frac{x}{30}$$

$$\text{number of unsaleable mangoes} = \frac{3}{4} \times \frac{1}{30}x = \frac{x}{40}$$

$$\therefore \frac{x}{40} = 12$$

$$\text{or, } x = 12 \times 40 = 480$$

Hence, total number of mangoes in the crate = 480.

[QUESTION ANALYTICS](#)

Q. 8

[FAQ](#)[Solution Video](#)[Have any Doubt?](#)

Out of five positive integer number  $C$  is the average of  $A$  and  $D$ .  $B$  is greater than  $C$  and less than  $D$ . Also  $B$  is the average of  $A$  and  $E$ . Which of the following are correct?

**A**  $A < C < B$ 

Correct Option

**B**  $B < D < E$ 

Correct Option

**C**  $C < B < D$ 

Correct Option

**D**  $A < D < E$ 

Correct Option

YOUR ANSWER - NA

CORRECT ANSWER - a,b,c,d

STATUS - SKIPPED

**Solution :**

(a,b,c,d)

$$C = \frac{A+D}{2}, \quad D > B > C$$

$$B = \frac{A+E}{2}$$

$$A + D = 2C$$

$$A + E = 2B$$

Since,

$$B > C = E > D$$

$$C < B < D < E$$

Since  $C$  is average of  $A$  and  $D$ , so  $A < C$   
The correct sequence is  $A < C < B < D < E$

[QUESTION ANALYTICS](#)

Q. 9

[FAQ](#)[Solution Video](#)[Have any Doubt?](#)

A soda bottle when fully filled has weight 1600 gm but when it is  $\frac{1}{3}$ rd filled it weighs only 900 gm. Which of the following are correct?

**A** Weight of empty soda bottle is 550 gm**B** Weight of fully filled bottle is 1050 gm**C** Weight of half filled bottle is 900 gm**D** Weight of half filled soda bottle is 700 gm

YOUR ANSWER - NA

CORRECT ANSWER -

STATUS - SKIPPED

**Solution :**

(a)

Let the weight of empty soda bottle is  $x$  gm and weight of soda in fully filled bottle is  $y$  gm

$$x + y = 1600$$

$$x + \frac{1}{3}y = 900$$

From here,

$$x = 550 \text{ gm}$$

$$y = 1050 \text{ gm}$$

Weight of half filled soda bottle is

$$= 550 + \frac{(1050)}{2} = 1075 \text{ gm}$$

Q. 10

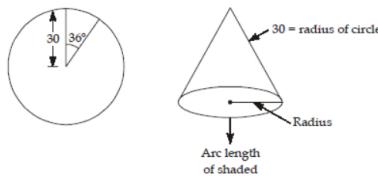
[FAQ](#)
[Solution Video](#)
[Have any Doubt?](#)

From a circular sheet of paper of radius 30 cm, a sector of 10% area is removed. If the remaining part is used to make a conical surface, then the ratio of the radius and height of the cone is \_\_\_\_\_. Correct Option

A 2

**Solution :**  
 (a)

The shade of part of circular sheet is folded to form a cone,



$$2\pi R' = \frac{9}{10} \times 2\pi \times 30$$

$$R' = 27 \text{ cm}$$

$$h = \sqrt{(30)^2 - (27)^2}$$

$$= \sqrt{900 - 729} = \sqrt{171} \text{ cm}$$

$$\text{Required ratio} = \frac{R'}{h} = \frac{27}{\sqrt{171}} = 2.064 \approx 2$$

B 5

C 8

D 9



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Q. 11

Solution Video    Have any Doubt ?



Two vehicles A and B travel with uniform speed 30 kmph and 60 kmph respectively in the same direction. They start at the same time and from the same place for a distance of 120 km. The faster vehicle B reaches the destination and travels back with the same speed. Assume that the loss of time to change the direction is negligible. If x is the distance travelled by the slower vehicle A before the two vehicles cross each other, then x is

**A** 70 km

**B** 75 km

**C** 80 km

Correct Option

**D** 90 km

QUESTION ANALYTICS



Q. 12

FAQ    Solution Video    Have any Doubt ?



The price of a bottle of cold drink is Rs. 10. One bottle of cold drink can also be bought by returning 10 empty bottles. A person has Rs. 1000 and 19 empty bottles. Assuming that the person can consume any number of bottles he buys. What will be the number of empty bottles he possesses at the end if he buys maximum number of bottles of cold drink and consume all?

**A** 0

**B** 1

**C** 2

Correct Option

**D** 3

QUESTION ANALYTICS



Q. 13

FAQ    Solution Video    Have any Doubt ?



The mid-points of a given square are joined to form a second square. A third square is drawn inside the second square in the same way and the process is continued indefinitely. If the side of the first square is 8 cm, then the sum area of all the squares (in  $\text{cm}^2$ ) is \_\_\_\_\_.

**A**  $16 + 8\sqrt{2}$

**B** 32

**C** 128

Correct Option

**D**

**E**

**F**

**G**

**H**

**I**

**J**

**K**

**L**

**M**

**N**

**O**

**P**

**Q**

**R**

**S**

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**EE**

</

and the side of next square formed would be  $\sqrt{2} \times \sqrt{2} = 2$

Sum of area of all squares formed indefinitely

$$\begin{aligned}&= a^2 + \left(\frac{a}{\sqrt{2}}\right)^2 + \left(\frac{a}{2}\right)^2 + \dots \\&= \frac{a^2}{1 - \frac{1}{2}} = \frac{(8)^2}{1 - \frac{1}{2}} = 128 \text{ cm}^2\end{aligned}$$

D 256

QUESTION ANALYTICS



Q. 14

? FAQ

► Solution Video

Have any Doubt ?



Suppose the remainder obtained while dividing ' $x$ ' by 61 is 2, the remainder obtained while dividing  $x^7$  by 61 will be \_\_\_\_\_.

6

Correct Option

Solution :

6

$$\begin{aligned}x &= 61 \times y + 2 \\ \frac{x^7}{61} &= \frac{(61 \times y)^7}{61} + \frac{2^7}{61} \\ \text{Remainder of } \frac{128}{61} &\text{ is 6.}\end{aligned}$$

QUESTION ANALYTICS



Q. 15

? FAQ

Have any Doubt ?



There are two groups of subjects: one of which consists of 5 science and 3 engineering subjects, and the other consists of 3 science and 5 engineering subjects. An unbiased die is cast. If the number 3 or number 5 turns up, a subject is selected at random from the first group, otherwise the subject is selected at random from the second group. The probability that an engineering subject is selected ultimately will be \_\_\_\_\_.

0.54 (0.51 - 0.56)

Correct Option

Solution :

0.54 (0.51 - 0.56)

$$\text{Probability of turning up 3 or 5} = \frac{2}{6} = \frac{1}{3}$$

$$\text{Probability of selecting an engineering subject from first group} = \frac{3}{8}$$

$$\therefore \text{Probability of selecting an engineering subject from first group on turning up 3 or 5} = \frac{1}{3} \times \frac{3}{8} = \frac{1}{8}.$$

$$\text{Now probability of not turning up 3 or 5} = 1 - \frac{1}{3} = \frac{2}{3}$$

$$\text{Probability of selecting an engineering subject from second group} = \frac{5}{8}$$

$$\therefore \text{Probability of selecting an engineering subject from second group on not turning up 3 or 5}$$

$$= \frac{2}{3} \times \frac{5}{8} = \frac{5}{12}$$

Thus the probability of selecting an engineering subject

$$= \frac{1}{8} + \frac{5}{12} = \frac{13}{24} = 0.542$$

QUESTION ANALYTICS



Q. 16

? FAQ

► Solution Video

Have any Doubt ?



The ratio of income of Anil and Mukesh is 2 : 3. The sum of their expenditure is ₹ 8000 and the amount of savings of Anil is equal to the amount of expenditure of Mukesh which of the following are correct?

A Income of Anil is ₹ 9000.

B Income of Mukesh is ₹ 12000.

Correct Option

C Total salary (Income of Anil and Income of Mukesh) is ₹ 21000

D Total saving (Saving of Anil and Saving of Mukesh) is ₹ 12000.

Correct Option

YOUR ANSWER - NA

CORRECT ANSWER - b,d

STATUS - SKIPPED

Solution :

(b, d)

Let the income of Anil and Mukesh be A and M respectively

∴ According to question,

$$(A)_e + (M)_e = 8000$$

... (i)

$$\begin{aligned}
 \text{Saving of Anil} &= A - (A)_E \\
 A - (A)_E &= (M)_E \\
 A &= (M)_E + (A)_E \\
 A &= 8000 \text{ from (i),} \\
 M &= ₹ 12000 \\
 \frac{A}{M} &= \frac{2}{3}
 \end{aligned}$$

QUESTION ANALYTICS



Q. 17

Solution Video

Have any Doubt?



$N = n(n+1)(n+2)(n+3)(n+4)$ ; where  $n$  is a natural number. Which of the following statements is/are true?

A Unit digit of  $N$  is 0

Correct Option

B  $N$  is perfectly divisible by 24

Correct Option

C  $N$  is perfect square

D  $N$  is odd

YOUR ANSWER - NA

CORRECT ANSWER - a,b

STATUS - SKIPPED

Solution :

(a, b)

$N = n(n+1)(n+2)(n+3)(n+4)$  is product  
Thus, divisible by  $5! = 120$   
So, (a) unit digit is 0 TRUE  
(b) perfectly divisible by 24 TRUE  
(c)  $N$  is perfect square not TRUE  
(d)  $N$  is odd not TRUE

QUESTION ANALYTICS



Item 11-17 of 17 [« previous](#) [1](#) [2](#) [next »](#)



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## GENERAL APTITUDE-2: (GATE - 2021) - REPORTS

OVERALL ANALYSIS

COMPARISON REPORT

SOLUTION REPORT

ALL(17)

CORRECT(0)

INCORRECT(0)

SKIPPED(17)

Q. 1

Solution Video

Have any Doubt ?



Neither he or his wife has arrived. Find out which part of sentence has an error.

 A has arrived B neither he C or his wife

Correct Option

 D no error

## QUESTION ANALYTICS



Q. 2

FAQ

Solution Video

Have any Doubt ?



Choose the correct alternative out of the four.

When she parted \_\_\_\_\_ her parents, her eyes were full of tears.

 A from

Correct Option

 B away C off D with

## QUESTION ANALYTICS



Q. 3

Solution Video

Have any Doubt ?

Which one of the following is the synonym of the word written in capital letters in the sentence?  
"The FUNDAMENTAL character of an individual defines his entire life". A Productive B Essential

Correct Option

 C Successful D Effective

## QUESTION ANALYTICS



Q. 4

Solution Video

Have any Doubt ?



Which one of the following words can be used to substitute for the phrase. "That which can not be taken by force"?

 A Impossible B Improbable

**C** Impeccable

**D** Impregnable

Correct Option

**Solution :**

(d)  
Impregnable - Unable to be capture or broken into.

QUESTION ANALYTICS +

Q. 5

FAQ

Solution Video

Have any Doubt ?



Which one of the following is the antonym of the word written in capital letters in the sentence?  
"There is a great deal of ENMITY".

**A** Amity

Correct Option

**Solution :**

(a)  
Enmity → The feeling of hatred towards an enemy.  
Amity → Friendly relations.

**B** Cooperation

**C** Dispute

**D** Hostility

QUESTION ANALYTICS +

Q. 6

Solution Video

Have any Doubt ?



Which one of the following can be used as a substitute for the words written in capital letters in the sentence. "serving the sufferers is true YEOMAN'S SERVICE"?

**A** A risky job

**B** An amusing job

**C** An excellent work

Correct Option

**Solution :**

(c)  
YEOMAN'S SERVICE → An excellent work.

**D** An unwanted job

QUESTION ANALYTICS +

Q. 7

FAQ

Solution Video

Have any Doubt ?



In the question, a part of the sentence is printed in bold. Below are given alternatives to the bold part choose the correct alternative. The hill is too high **for climbing**

**A** to climb

Correct Option

**Solution :**

(a)  
To climb should be used.

**B** for going up

**C** for climbing up

**D** no improvement

QUESTION ANALYTICS +

Q. 8

Solution Video

Have any Doubt ?



In this section, each of the following items consists of a word in capital letters, followed by four words. Select the word/words that is SIMILAR in meaning to the bold word in CAPITAL LETTERS NUGATORY.

**A** Worth less

Correct Option

**A** Cheerful

**B** Negative

**C** Insignificant

**D** Insignificant

Correct Option

YOUR ANSWER - NA

CORRECT ANSWER - a,d

STATUS - SKIPPED

**Solution :**

(a, d)  
NUGATORY is similar in meaning to worthless and insignificant.

 QUESTION ANALYTICS



Q. 9

? FAQ

▶ Solution Video

⌚ Have any Doubt ?



From the given four options, identify the option which means the same/similar as 'PROXIMITY'.

**A** Contiguity

Correct Option

**B** Remoteness

**C** Vicinity

Correct Option

**D** Propinquity

Correct Option

YOUR ANSWER - NA

CORRECT ANSWER - a,c,d

STATUS - SKIPPED

**Solution :**

(a, c, d)  
Out of the given 4 options, we can easily identify that 'a' and 'c' are synonyms of PROXIMITY whereas 'REMOTENESS' denotes distance which means it cannot be a synonym of PROXIMITY. The word 'PROPINQUITY' also means the same as 'PROXIMITY' or 'NEARNESS'.

 QUESTION ANALYTICS



Q. 10

? FAQ

▶ Solution Video

⌚ Have any Doubt ?



TRILOGY : NOVEL

Select the option that fits the analogy.

**A** Rice : Husk

**B** Milk : Cream

**C** Fabric : Weaving

**D** Serial : Episode

Correct Option

**Solution :**

(d)  
Trilogy is section of a novel. Episode is a section of a serial.

 QUESTION ANALYTICS





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INCORRECT(0)

SKIPPED(17)

Q. 11

FAQ

Solution Video

Have any Doubt?



Among five friends, A is heavier than B; C is lighter than D; B is lighter than D but heavier than E. Who among them is the heaviest?

 A B B C C A D Can't say

Correct Option

Solution :

(d)

The five friends in descending order of weight are:  
A/D, B/C, E or A/D, B, C/E  
Either A or D is the heaviest.

QUESTION ANALYTICS



Q. 12

FAQ

Solution Video

Have any Doubt?



At food world super market, built in 2010, the number of successful thefts has risen dramatically in the past few months. Food world has a reliable electronics security system at all customer exist doors and this system is always in operation. Therefore, the theft must be committed by people who used exit other than the regular customer exit doors. Which is the following assumption make the conclusion logically correct?

 A If an employee so wishes, he is allowed to leave through an exit that is not mentioned. B If a store has a reliable security system, it is impossible to pass through the system undetected.

Correct Option

Solution :

(b)

 C If a supermarket was built before 2015, it often has exists that can't be equipped with electronic surveillance. D Store must be having employees which are stealing things.

QUESTION ANALYTICS



Q. 13

Solution Video

Have any Doubt?



Which word is farthest in meaning to 'GRUESOME'?

 A Appalling B Ghastly C Lurid D Amiable

Correct Option

Solution :

(d)

QUESTION ANALYTICS



Q. 14

Solution Video

Have any Doubt?

From the four logical diagram select one which best illustrates the relationship among three given classes in question.  
Canines, Dogs, Pups



Correct Option

**Solution :**  
 (c)  
 All Pups are Dogs and all Dogs are Canines.



## QUESTION ANALYTICS



Q. 15

▶ Solution Video

Have any Doubt ?

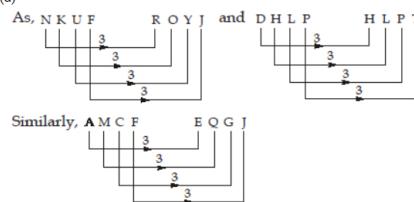


In a certain code NKUF is written as ROYJ and DHLP is written as HLPT. How will AMCF be written in the code?

**A** EQGJ

Correct Option

**Solution :**  
 (a)

**B** EGQJ**C** GEQJ**D** JEQG

## QUESTION ANALYTICS



Q. 16

FAQ

▶ Solution Video

Have any Doubt ?



Which of the following are correct?

**A** People have good reason to care about the welfare of animals.

Correct Option

**B** Ever since enlightenment, their treatment has been seen as a measure of mankind's humanity.**C** It is no coincidence that William Wiber and Sir Thomas Buxton, two leaders of the movement to abolish the slave trade, helped found the Royal Society for the prevention of cruelty to Animals in 1820 S.**D** An increasing number of people go further, mankind has a duty not to cause pain to animals that have the capacity to suffer.

Correct Option

YOUR ANSWER - NA

CORRECT ANSWER - a,d

STATUS - SKIPPED

**Solution :**

(a, d)

Option (a) and (d) are correctly formed sentences.

Option (b) is incorrect because it fails to use the definite article the before enlightenment.

Option (c) is incorrect, the correct verb pattern after the verb help is to found (to-infinitive) and not found (bare infinitive).

## QUESTION ANALYTICS



Q. 17

▶ Solution Video

Have any Doubt ?



Which of the following is grammatically possible?

**A** I got out of to attend the meeting.

Correct Option

**B** I got out of the meeting.

Correct Option

**C** I got out of attending the meeting.

Correct Option

D

I got out to attend a meeting.

Correct Option

YOUR ANSWER - NA

CORRECT ANSWER - b,c,d

STATUS - SKIPPED

Solution :

(b, c, d)

QUESTION ANALYTICS

+

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SOLUTION REPORT

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CORRECT(0)

INCORRECT(0)

SKIPPED(33)

Q. 1

FAQ

Solution Video

Have any Doubt ?



Which of the following options is the closest in meaning to the word : Surreptitious

- A Mysterious
- B Abstract
- C Ravishing

- D Secret

Correct Option

Solution :

(d) Surreptitious : Done secretly

I had a surreptitious look at what she was writing.

QUESTION ANALYTICS



Q. 2

Solution Video

Have any Doubt ?



Choose the most appropriate word from the options given below to complete the following sentence : Have you heard the \_\_\_\_\_ news?

- A Late
- B Later
- C Latest
- D Latter

Correct Option

Solution :

(c)

QUESTION ANALYTICS



Q. 3

Solution Video

Have any Doubt ?



Out of the four alternatives, choose the one which best expresses the meaning of the idiom/ phrase : To flog a dead horse.

- A To act in a foolish way
- B To waste one's efforts
- C To revive interest in an old subject
- D To revive old memories

Correct Option

Solution :

(b)

It means to waste effort on something or engaging in a fruitless effort.

Example : He keeps trying to get his book published, but I think he is flogging a dead horse.

QUESTION ANALYTICS



Q. 4

Solution Video

Have any Doubt ?



Jyoti's mother's present age is six times Jyoti's present age. Jyoti's age five years from now will be one-third of his mother's present age. Then the Jyoti's age is

- A 3 years
- B 5 years

Correct Option

Solution :

(b)

Let, Jyoti's age =  $x$   
 Jyoti's mother's age =  $6x$   
 $\therefore 3(x + 5) = 6x$   
 $3x + 15 = 6x$   
 $3x = 15$   
 $x = 5$

C 2 years

D 7 years

QUESTION ANALYTICS



Q. 5

Solution Video

Have any Doubt?



Which one of the following may improve the underlined part of a sentence : A lot depends on your early brought-up in the family.

A Bringing up

B Bringing on

C Upbringing

Correct Option

Solution :

(c)  
Upbringing is right use.

D No improvement

QUESTION ANALYTICS



Q. 6

Solution Video

Have any Doubt?



The price of an article was increased by  $r\%$ . Later the new price was decreased by  $r\%$ . If the latest price was Re. 1, then the original price was :

A Re. 1

B Rs.  $\left( \frac{1-r^2}{100} \right)$

C Rs.  $\frac{\sqrt{1-r^2}}{100}$

D Rs.  $\left( \frac{10000}{10000-r^2} \right)$

Correct Option

Solution :

(d)  
Let the original price be Rs.  $x$   
 $\therefore (100 - r)\% \text{ of } (100 + r)\% \text{ of } x = 1$

$$\frac{(100 - r)}{100} \times \frac{(100 + r)}{100} \times x = 1$$

$$x = \frac{100 \times 100}{(100 - r)(100 + r)} = \frac{10000}{(10000 - r^2)}$$

Alternative :

$$\begin{aligned} \text{Let original price} &= \text{Rs. } x \\ \text{After } r\% \text{ increase, price} &= (100 + r)\% \text{ of } x \\ &= \frac{(100 + r)x}{100} \end{aligned}$$

New price after  $r\%$  decrease,

$$\begin{aligned} &= (100 - r)\% \text{ of } \left[ \frac{(100 + r)x}{100} \right] \\ &= \frac{(100 - r)(100 + r)}{100 \times 100} x = 1 \text{ (given)} \end{aligned}$$

$$\text{Hence, } x = \frac{100 \times 100}{(100 - r)(100 + r)}$$

QUESTION ANALYTICS



Q. 7

Solution Video

Have any Doubt?



The least number which when divided by 5, 6, 7 and 8 leaves a remainder 3 but when divided by 9 leaves no remainder.

A 1393

B 1682

C 1683

Correct Option

Solution :

(c)

L.C.M of 5, 6, 7, 8 = 840

∴ Required number is of the form  $840k + 3$

Least value of  $k$  for which  $(840k + 3)$  is divisible by 9 is  $k = 2$ .

∴ Required number =  $840 \times 2 + 3 = 1683$

D 843

QUESTION ANALYTICS



Q. 8

Solution Video

Have any Doubt ?



If  $\frac{2x}{1 + \frac{1}{1 + \frac{x}{1-x}}} = 1$ , then find the value of  $x$ .

A  $\frac{1}{3}$

B  $\frac{2}{3}$

Correct Option

Solution :

(b)

We have

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

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

$$2x = 1 + 1 - x$$

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

C  $\frac{1}{2}$

D  $\frac{3}{4}$

QUESTION ANALYTICS



Q. 9

Solution Video

Have any Doubt ?



What should come in place of the question mark in the following number series?  
66, 75, 70, 79, ?, 83

74

Correct Option

Solution :

74

$$71 - 5 = 66 ;$$

$$66 + 9 = 75 ;$$

$$70 + 9 = 79 ;$$

$$74 + 9 = 83$$

$$75 - 5 = 70 ;$$

$$79 - 5 = 74$$

QUESTION ANALYTICS



Q. 10

FAQ

Solution Video

Have any Doubt ?



There are two clocks, both set to show 10 pm on 21st Jan, 2010. One clock gains 2 minutes in an hour and the other clock loses 5 minutes in an hour. Then by how many minutes do the two clocks differ at 4 pm on 22nd Jan 2010?

126

Correct Option

**Solution :**

126  
One clock shows 10 pm (on 21st Jan, 2010)

One clock gains = 2 min

Other clock loses = 5 min

Time period between 10 pm and 4 pm = 18 hrs

∴ Required difference =  $(2 \times 18 + 5 \times 18)$  min = 126 min

 QUESTION ANALYTICS

+

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**Q. 11**
[▶ Solution Video](#)
[Have any Doubt ?](#)


A sum of Rs. 600 amounts to Rs. 720 in 4 years at simple interest. What will be the amount if the percentage rate of interest is increased by 2%?

**768**
[Correct Option](#)
**Solution :**

768

$$P = \text{Rs. } 600$$

$$A = \text{Rs. } 720$$

$$T = 4 \text{ years}$$

$$R = ?$$

$$R = \frac{S.I. \times 100}{P \times T} = \frac{120 \times 100}{600 \times 4} = 5\%$$

At 7% rate,

$$S.I. = \frac{600 \times 7 \times 4}{100} = 168$$

$$A = 600 + 168 = 768$$

[QUESTION ANALYTICS](#)

**Q. 12**
[▶ Solution Video](#)
[Have any Doubt ?](#)


Twenty workers can finish a piece of work in 30 days. After  $x$  days 5 workers leave the job. If the total is completed in overall 35 days then the value of  $x$  should be \_\_\_\_ days.

**15**
[Correct Option](#)
**Solution :**

15

$$\text{Man} \times \text{Day} = \text{Man} \times \text{Day}$$

$$20 \times 30 = 600$$

 Let workers leave after  $x$  days then

$$20x + 15(35 - x) = 600$$

$$20x + 525 - 15x = 600$$

$$5x = 75$$

$$x = 15$$

[QUESTION ANALYTICS](#)

**Q. 13**
[▶ Solution Video](#)
[Have any Doubt ?](#)


A car travels 1/3 of the distance on a straight road with a velocity of 10 km/h, the next 1/3 with a velocity of 20 km/h and the last 1/3 with a velocity of 60 km/h. The average velocity of the car for the whole journey will be \_\_\_\_ km/h.

**18**
[Correct Option](#)
**Solution :**

18

$$\text{Average speed} = \frac{\text{Distance Covered}}{\text{Time Taken}}$$

$$= \frac{\frac{D}{3} + \frac{D}{3} + \frac{D}{3}}{\frac{D}{3} \times \frac{1}{20} + \frac{D}{3} \times \frac{1}{10} + \frac{D}{3} \times \frac{1}{60}}$$

$$= \frac{\frac{3}{20} + \frac{1}{10} + \frac{1}{60}}{\frac{3}{20} + \frac{1}{10} + \frac{1}{60}} = \frac{3}{\frac{3+6+1}{60}} = \frac{3}{\frac{10}{60}} = 18 \text{ km/h}$$

[QUESTION ANALYTICS](#)

**Q. 14**
[▶ Solution Video](#)
[Have any Doubt ?](#)


A man invests an amount of Rs. 15860 in the names of his three sons A, B and C in such a way that they get the same interest after 2, 3 and 4 year respectively. If the rate of simple interest is 5%, then which of the following is/are correct.

A Ratio of amounts invested between A and B will be 3 : 2.

Correct Option

B Ratio of amounts invested between B and C is 4 : 3.

Correct Option

C Ratio of amounts invested between A and C is 1 : 2.

D Ratio of amounts invested among A, B, C is 6 : 4 : 3

Correct Option

YOUR ANSWER - NA

CORRECT ANSWER - a,b,d

STATUS - SKIPPED

Solution :

(a, b, d)

Let the amounts invested be  $x, y, z$  respectively.

$$\text{Then, } \frac{x \times 2 \times 5}{100} = \frac{y \times 3 \times 5}{100} = \frac{z \times 4 \times 5}{100} = k$$

$$\therefore x = 10k, y = \frac{20}{3}k \text{ and } z = 5k$$

$$\begin{aligned} \text{So, } x : y : z &= 10k : \frac{20}{3}k : 5k \\ &= 30 : 20 : 15 \\ &= 6 : 4 : 3 \end{aligned}$$

QUESTION ANALYTICS



Q. 15

Solution Video

Have any Doubt ?



Pipe A and B running together can fill a cistern in 6 minutes. If B takes 5 minutes more than A to fill the cistern then which of the following is/are correct?

A A will fill the cistern in 15 minutes.

B B will fill the cistern in 20 minutes.

C A will fill the cistern in 10 minutes.

Correct Option

D B will fill the cistern in 15 minutes.

Correct Option

YOUR ANSWER - NA

CORRECT ANSWER - c,d

STATUS - SKIPPED

Solution :

(c, d)

Let pipe A can fill in  $x$  and pipe B in  $x + 5$  minutes.

$$\frac{1}{x} + \frac{1}{x+5} = \frac{1}{6}$$

$$\text{or } \frac{x(x+5)}{2x+5} = 6$$

$$x = 10 \text{ and } x + 5 = 15$$

QUESTION ANALYTICS



Q. 16

Solution Video

Have any Doubt ?



Read the following information carefully :

- (i) A is the father of C.
- (ii) E is the daughter of C. F is the spouse of A.
- (iii) B is the brother of C. D is the son of B.
- (iv) G is the spouse of B. H is the father of G.

Which of the following statements is/are correct.

A F is the grandmother of D.

Correct Option

B H is the grandmother of D.

C B is the son of F.

Correct Option

D D is the son of F.

YOUR ANSWER - NA

CORRECT ANSWER - a,c

STATUS - SKIPPED

Solution :

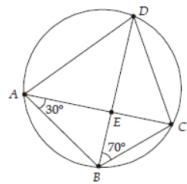
(a, c)



Q. 17

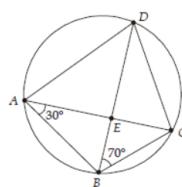
[▶ Solution Video](#)[Have any Doubt ?](#)

$ABCD$  is a cyclic quadrilateral whose diagonals intersect at a point  $E$ . If  $\angle DBC = 70^\circ$ ,  $\angle BAC = 30^\circ$ , and  $AB = BC$  then  $\angle BCD$  and  $\angle ECD$  are respectively

**A** $\angle BCD = 80^\circ$  and  $\angle ECD = 50^\circ$ 

Correct Option

Solution :  
(a)



$$\begin{aligned} \angle CAD &= \angle DBC = 70^\circ && \text{(Angles in the same segment)} \\ \therefore \angle DAB &= \angle CAD + \angle BAC \\ &= 70^\circ + 30^\circ \\ &= 100^\circ \end{aligned}$$

But,  $\angle DAB + \angle BCD = 180^\circ$  (Opposite angle of cyclic quadrilateral)

$$\text{So, } \angle BCD = 180^\circ - 100^\circ = 80^\circ$$

Now, we have  $AB = BC$

Therefore,  $\angle BCA = 30^\circ$

Again,  $\angle DAB + \angle BCD = 180^\circ$  (Opposite angle of cyclic quadrilateral)

$$100^\circ + \angle BCA + \angle ECD = 180^\circ$$

$$100^\circ + 30^\circ + \angle ECD = 180^\circ$$

$$\angle ECD = 50^\circ$$

**B** $\angle BCD = 70^\circ$  and  $\angle ECD = 50^\circ$ **C** $\angle BCD = 80^\circ$  and  $\angle ECD = 60^\circ$ **D** $\angle BCD = 70^\circ$  and  $\angle ECD = 60^\circ$ **A**

QUESTION ANALYTICS

Q. 18

[▶ Solution Video](#)[Have any Doubt ?](#)

In a school consisting 350 students, each student is registered for at least one of three classes ~ Dance, Music and Kung Fu. 150 students are registered for Dance, 150 students are registered for Music and 200 students are registered for Kung Fu. If only 50 students are registered for all three classes, how many students are registered for exactly two classes \_\_\_\_\_.

**A**

50

Correct Option

Solution :  
(a)

$$\begin{aligned} n(A \cup B \cup C) &= n(A) + n(B) + n(C) - n(A \cap B) - n(A \cap C) - n(B \cap C) + n(A \cap B \cap C) \\ \text{or } n(A \cap B) + n(A \cap C) + n(B \cap C) &= 550 - 350 = 200 \end{aligned}$$

Number of people in exactly two sets is given as

$$\begin{aligned} &= n(A \cap B) + n(A \cap C) + n(B \cap C) - 3n(A \cap B \cap C) \\ &= 200 - 3 \times 50 \\ &= 50 \end{aligned}$$

**B**

200

**C**

90

**D**

150

**A**

QUESTION ANALYTICS

Q. 19

[▶ Solution Video](#)[Have any Doubt ?](#)

While I agree \_\_\_\_ his proposal this time, I do not often agree \_\_\_\_ him.

A to, to

B to, with

Correct Option

**Solution :**  
(b)  
'Agree to' means to commit to (a course of action, a proposal, etc.)  
'Agree with' means to have the same opinion as another person or to approve of something.

C with, to

D with, with

 QUESTION ANALYTICS

+

Q. 20

 Solution Video

 Have any Doubt ?

Q

In this question, the first and last part of sentence are numbered 1 and 6. The rest of the sentences are split into four parts and named P, Q, R and S. These four parts are not given in their proper order. Read the parts and find out which of the four combinations is correct.

1. Early to bed, early to rise makes a man healthy, wealthy and wise.

P. But for the morning tea, I had to wait for someone to get up before me.

Q. This saying inspired me to rise early.

R. That day I was the first to get up.

S. One day I got up early in the morning.

6. One day I realised that it was a waste of time to get up early and wait for the morning tea.

A QSRP

Correct Option

**Solution :**  
(a)

B QPRS

C PQRS

D SPQR

 QUESTION ANALYTICS

+

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**Q. 21**
[▶ Solution Video](#)
[Have any Doubt ?](#)


The report issued by the committee was completely \_\_\_\_\_, extolling in great detail the plan's strengths but failing to mention its \_\_\_\_\_.

**A** Comprehensive, Proposal

**B** Unbiased, Weaknesses

**C** One-sided, Short coming

Correct Option

**D** Printed, Good points

QUESTION ANALYTICS


**Q. 22**
[▶ Solution Video](#)
[Have any Doubt ?](#)


If  $P + Q$  means  $P$  is the brother of  $Q$ ,  $P \times Q$  means  $P$  is the father of  $Q$ ,  $P - Q$  means  $P$  is the sister of  $Q$ . Which of the following represents  $S$  is niece of  $T$ .

**A**  $T \times M + S - K$ 
**B**  $K - S \times M + T$ 
**C**  $T + M \times S - K$ 

Correct Option

**Solution:**

(c)

If  $S$  is niece of  $T$ , i.e.,  $T$  is brother of father of  $S$ , which is shown in option (c).

 $T + M \times S - K$ :

 $S - K$  means  $S$  is sister of  $K$ .

 $M \times S$  means  $M$  is father of  $S$ .

 $T + M$  means  $T$  is brother of  $M$ ,  $T$  is brother of father of  $S$ , hence  $S$  is niece of  $T$ .

So, option (c) is correct.

**D**  $T \times S + M - K$ 

QUESTION ANALYTICS


**Q. 23**
[▶ Solution Video](#)
[Have any Doubt ?](#)


Change all the vowels of the word "PRECIOUS" to its next letters and all the consonants to its previous letters and then arrange them in alphabetical order. Which letter will be 4th from the right?

**A** J

**B** B

**C** O

**D** P

Correct Option

**Solution:**

(d)

Given word : "PRECIOUS"

After rearrangement OQFBJPVR

In alphabetic order from left to right BFJOPQRV

Thus, P is fourth from the right end.

QUESTION ANALYTICS


**Q. 24**
[▶ Solution Video](#)
[Have any Doubt ?](#)


Read the following information carefully and answer the question.

In a certain code language "the capital of India" is coded as "Ghi klo mli", "the sun festival in India" is coded as "Ghi gho dlo", "Ghosh in the capital" is coded as "Gho ghi".

In a certain code language, the capital of Delhi is coded as 'jai', veru, miti, viki, 'many restauran in delhi' is coded as 'viki, tif, dic, vij', 'Crowd in the Capital' is coded as 'dic, veru, miti, sik'; 'Season for festival' is coded as 'nis, tif, vij'; 'delhi for country' is coded as 'viki, noo, tif'. What is the code of 'Crowd'?

**A** miti

**B** sik

Correct Option

**C** dic

**D** tif

QUESTION ANALYTICS

+

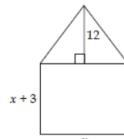
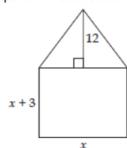
Q. 25

Solution Video

Have any Doubt ?

Bookmark

A rectangular part is to be designed whose breadth is 3 m less than its length. Its area is to be 4 square meters more than the area of a park that has already been made in the shape of an isosceles triangle with its base as the breadth of the rectangular park and of altitude 12 m then the length of the rectangular park is \_\_\_\_\_. m.



**7.0 (6.5 - 7.5)**

Correct Option

**Solution :**

7.0 (6.5 - 7.5)

Let the breadth of the rectangular part be  $x$  m ,

So, its length =  $(x + 3)$  m

Therefore, the area of the rectangular park

$$= x(x + 3) \text{ m}^2$$

Now, base of the isosceles triangle =  $x$  m

$$\text{Therefore, its area} = \frac{1}{2} \times x \times 12 = 6x \text{ m}^2$$

According to our requirements,

$$x^2 + 3x = 6x + 4$$

$$x^2 - 3x - 4 = 0$$

$$x = \frac{3 \pm \sqrt{25}}{2} = 4 \text{ or } -1$$

$$\therefore \text{Length of the part} = 4 + 3 = 7 \text{ m}$$

QUESTION ANALYTICS

+

Q. 26

Solution Video

Have any Doubt ?

Bookmark

Circumference of a circle to the perimeter of a square is 11 : 6. Sum of the radius of the circle and one side of the square is 26 meter, then the area of the square is \_\_\_\_\_.  $\text{m}^2$ .

**143.937 (143 - 144)**

Correct Option

**Solution :**

143.937 (143 - 144)

$$\frac{2\pi r}{4a} = \frac{11}{6}$$

$$\text{or } \frac{r}{a} = \frac{7}{6}$$

where,  $r$  = radius of circle and  $a$  = side of square.

Given :  $r + a = 26$

$$a = \frac{6}{13} \times 26 = 12$$

Hence, Area of square =  $12 \times 12 = 144 \text{ m}^2$

QUESTION ANALYTICS

+

Q. 27

Solution Video

Have any Doubt ?

Bookmark

A vessel contain 48 litres mixture of milk and water, in which milk is 3 times than the water. 10 litres mixture is taken out and 20 litres pure water is added, then the difference between the quantity of water and milk in the final mixture is \_\_\_\_\_. litre.

**1**

Correct Option

**Solution :**

1  
 Total mixture = 48 litres  
 $M : W = 3 : 1$   
 Milk = 36  
 Water = 12  
 10 litre mixture is taken out and 20 litre pure water is added.  
 Now, Milk =  $36 - 7.5 = 28.5$   
 Water =  $12 - 2.5 + 20 = 29.5$   
 Required difference =  $29.5 - 28.5 = 1$  litre

**QUESTION ANALYTICS****Q. 28****Solution Video****Have any Doubt ?**

A shopkeeper gave 10% discount on the marked price of an article thus earning a profit of Rs. 400. Had he sold the article at 20% discount he would have earned 330 as profit then the marked price of article is Rs. \_\_\_\_.

**700****Correct Option****Solution :**

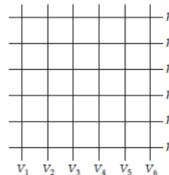
700  
 Let marked price of article =  $100x$   
 1st case : 10% discount on the MP, so  
 Selling Price =  $100x - 10x = 90x$   
 2nd case : 20% discount on the MP so,  
 Selling Price =  $100x - 20x = 80x$   
 Cost price in both cases will be same.  
 So,  $90x - 400 = 80x - 330$   
 or  $x = 7$   
 So, marked price of article =  $100x = 700$ .

**QUESTION ANALYTICS****Q. 29****Solution Video****Have any Doubt ?**

Six parallel horizontal lines are intersecting perpendicularly to six vertical parallel lines, the number of rectangles formed after such intersections is \_\_\_\_.

**225****Correct Option****Solution :**

225



Here  $V_1$  to  $V_6$  represent six parallel vertical lines and  $h_1$  to  $h_6$  represent six parallel horizontal lines.

To form a rectangle we need to select any two horizontal parallel lines which intersect any two vertical parallel lines. Thus,

$${}^6C_2 \times {}6C_2 = 15 \times 15 = 225$$

225 rectangles will be formed.

**QUESTION ANALYTICS****Q. 30****FAQ****Solution Video****Have any Doubt ?**

A polygon has 44 diagonals, then the number of its sides are \_\_\_\_

**11****Correct Option****Solution :**

11  
 Let the number of sides be  $n$ .  
 $\therefore {}^nC_2 - n = 44$   
 $\frac{n(n-1)}{2} - n = 44$   
 $\frac{n^2 - n - 2n}{2} = 44$   
 $n^2 - 3n - 88 = 0$   
 $n^2 - 11n + 8n - 88 = 0$   
 $n(n-11) + 8(n-11) = 0$   
 $n = 11, -8$





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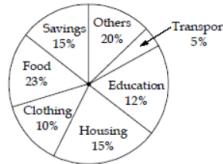
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## GENERAL APTITUDE (GATE - 2021) - REPORTS

[OVERALL ANALYSIS](#)   [COMPARISON REPORT](#)   **SOLUTION REPORT**
[ALL\(33\)](#)   [CORRECT\(0\)](#)   [INCORRECT\(0\)](#)   [SKIPPED\(33\)](#)
**Q. 31**
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The pie chart represented below shows the spending by a family on various items during the year 1999. Percent of money spent by a family on various items during 1999.



Study the graph and select the correct options.

**A** If the total amount spend during the year 1999 was Rs. 46000, the amount spent on food is Rs. 10580.

Correct Option

**B** Graphs shows that maximum amount was spent on food.

Correct Option

**C** The ratio of the total amount of money spent on housing to that spent on education was 5 : 4.

Correct Option

**D** If the total amount spent during the year 1999 was Rs. 46000, the family saved during the year is 6900.

Correct Option



**Solution :**

(a, b, c, d)

$$(i) \quad 46000 \times \frac{23}{100} = 10580$$

(ii) 23% are food

$$(iii) \quad \text{Required ratio} = 15 : 12 = 5 : 4$$

$$(iv) \quad 46000 \times \frac{15}{100} = 6900$$

QUESTION ANALYTICS


**Q. 32**
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If the numbers A, B, C, D and E is an arithmetic sequence. Which of the following are correct.

**A** 2A, 2B, 2C, 2D and 2E also in arithmetic sequence.

Correct Option

**B** A – 3, B – 3, C – 3, D – 3, E – 3 also in arithmetic sequence.

Correct Option

**C** A<sup>2</sup>, B<sup>2</sup>, C<sup>2</sup>, D<sup>2</sup> and E<sup>2</sup> also in arithmetic sequence.

**D** A<sup>3</sup>, B<sup>3</sup>, C<sup>3</sup>, D<sup>3</sup> and E<sup>3</sup> also in arithmetic sequence.



**Solution :**

(a, b)

If subtract or multiply every term of an A.P. by a constant resulting sequence will be also A.P. as common difference will still be constant.

QUESTION ANALYTICS


**Q. 33**
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With reference to an equilateral triangle of side 6 unit

**A** height of equilateral triangle is  $3\sqrt{3}$  unit.

Correct Option

**B** radius of circumscribed circle of triangle is  $2\sqrt{3}$  unit.

Correct Option

**C** radius of inscribed circle of triangle is  $\sqrt{3}$  unit.

Correct Option

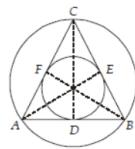
YOUR ANSWER - NA

CORRECT ANSWER - a,b,c,d

STATUS - SKIPPED

**Solution :**

(a, b, c, d)



(a) Height  $CD = \sqrt{6^2 - 3^2}$

$$CD = 3\sqrt{3} \text{ unit}$$

(b) radius of circumscribed circle,

$$= \frac{2}{3} \times 3\sqrt{3} = 2\sqrt{3} \text{ unit}$$

(c) radius of inscribed circle

$$= \frac{1}{3} \times 3\sqrt{3} = \sqrt{3} \text{ unit}$$

(d) area of this equilateral triangle

$$= \frac{\sqrt{3}}{4} \times 36 = 9\sqrt{3} \text{ unit}^2$$

QUESTION ANALYTICS

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