

# [Goldman Sachs] Engineering Campus Hiring Program | Sample Test

## 2. Question 2

### Passage:

An aesthetic attitude is a state of contemplating a subject with no other purpose than appreciating it. For most authors, thus, the aesthetic attitude is purposeless: we have no reason to engage in it other than finding aesthetic enjoyment.

Aesthetic appreciation can be carried on by means of the senses: looking at a sculpture, trees in bloom, or Manhattan's skyline; listening to Puccini's "La bohème;" tasting a mushroom risotto; feeling cool water in a hot day; and so on. However, senses may not be necessary in order to obtain an aesthetic attitude. We can rejoice, for instance, in imagining a beautiful house that never existed or in discovering or grasping the details of a complex theorem in algebra.

In principle, thus, the aesthetic attitude can relate to any subject via any possible mode of experience—senses, imagination, intellect, or any combination of these.

The question arises of whether beauty is universal. Suppose you agree that Michelangelo's "David" and a Van Gogh self-portrait are beautiful; do such beauties have something in common? Is there a single shared quality, beauty, that we experience in both of them? And is this beauty the very same that one experiences when gazing at the Grand Canyon from its edge or listening to Beethoven's ninth symphony?

If beauty is universal, as for example, Plato maintained, it is reasonable to hold that we do not know it through the senses. Indeed, the subjects in question are quite different and are also known in different ways (gaze, hearing, observation). If there is something in common among those subjects, it cannot be what is known through the senses.

But, is there really something common to all experiences of beauty? Compare the beauty of an oil painting with that of picking flowers in a Montana field over the summer or surfing a gigantic wave in Hawaii. It seems that these cases have no single common element: not even the feelings or the basic ideas involved seem to match. Similarly, people around the world find different music, visual art, performance, and physical attributes to be beautiful. It's on the basis of those considerations that many believe that beauty is a label we attach to different sorts of experiences based on a combination of cultural and personal preferences.

Does beauty necessarily go along with pleasure? Do humans praise beauty because it gives pleasure? Is a life dedicated to the quest for beauty one worth living? These are some fundamental questions in philosophy, at the intersection between ethics and aesthetics.

If on the one hand beauty seems linked to aesthetic pleasure, seeking the former as a means to achieve the latter can lead to egoistic hedonism (self-centered pleasure-seeking for its own sake), the typical symbol of unethical decadence.

But beauty can also be regarded as a value, one of the dearest to humans. In Roman Polanski's movie The Pianist, for instance, the protagonist escapes the desolation of WWII by playing a ballad by Chopin. And fine works of art are curated, preserved, and presented as valuable in themselves. There is no question that human beings value, engage with, and desire beauty -- simply because it is beautiful.

**Question:** An aesthetic attitude is primarily characterized by \_\_\_\_.

Pick **ONE** option

- ☐ contemplating without any ulterior motive
- ☐ engaging with subjects for a specific purpose
- ☐ seeking pleasure in various activities
- ☐ evaluating beauty based on cultural preferences

Clear Selection

## 3. Question 3

### Passage:

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**Question:** Aesthetic appreciation can be achieved without sensory experiences by \_\_\_\_.

Pick **ONE** option

- ☐ tasting a variety of dishes
- ☐ imagining fictional scenarios
- ☐ observing natural landscapes
- ☐ engaging in intellectual activities

Clear Selection

4. Question 4

**Passage:**  
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**Question:** In the context of the passage, what does the term "egoistic hedonism" refer to?

Pick **ONE** option

- ☐ The pursuit of beauty for its own sake
- ☐ The pursuit of aesthetic pleasure without ethics
- ☐ Seeking pleasure without any self-interest
- ☐ Enjoying beauty without considering cultural factors

Clear Selection

5. Question 5

**Passage:**  
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**Question:** It is challenging to identify a common element among various experiences of beauty because ?

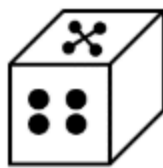
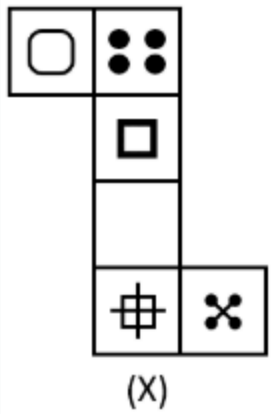
Pick **ONE** option

- ☐ different types of beauty are enjoyed in different cultures.
- ☐ beauty lacks any emotional or conceptual basis.
- ☐ personal and cultural preferences shape perceptions of beauty.
- ☐ the pleasures associated with beauty are transient.

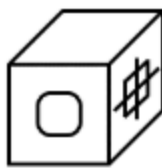
Clear Selection

## 6. Question 6

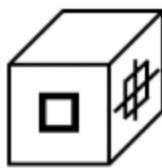
Which of the following cubes cannot be formed by folding the given sheet of paper (X)?



A



B



C



D

Pick **ONE** option

☐ Only A and B

☐ Only A and C

☐ Only B, C and D

☐ Only A, C and D

[Clear Selection](#)

### 7. Question 7

How many triangles are inside the circle?



Pick **ONE** option

☐ 45

☐ 50

☐ 44

☐ 48

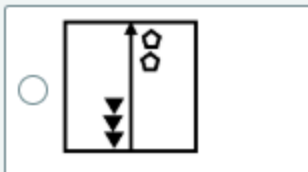
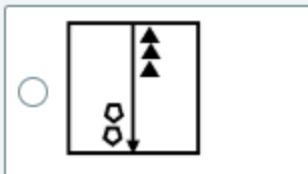
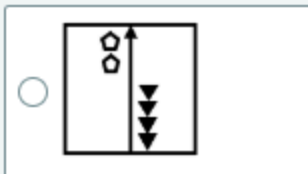
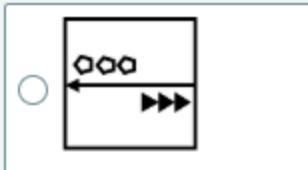
[Clear Selection](#)

### 8. Question 8

Which of the following answer figures will continue the same series as established by the below four Question Figures?



Pick ONE option



Clear Selection

### 9. Question 9

What could be the total number of smaller cubes in the given figure?



Pick **ONE** option

☐ 12

☐ 14

☐ 11

☐ 13

[Clear Selection](#)

### 10. Question 10

What will be the water image of the given figure?



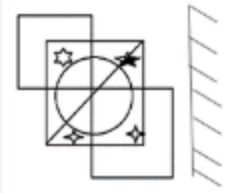
Pick **ONE** option



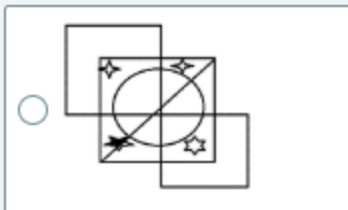
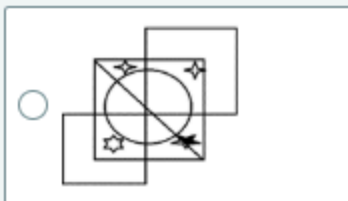
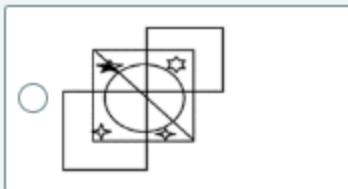
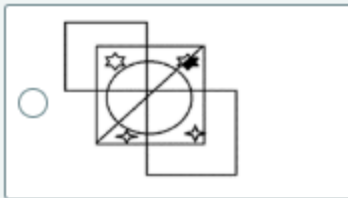
[Clear Selection](#)

### 11. Question 11

What will be the mirror image of the given figure?



Pick **ONE** option

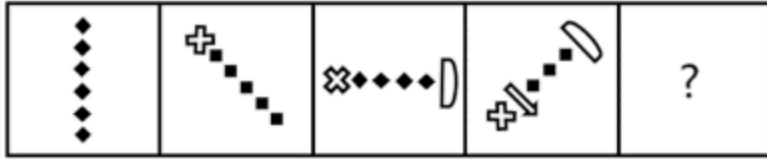


[Clear Selection](#)

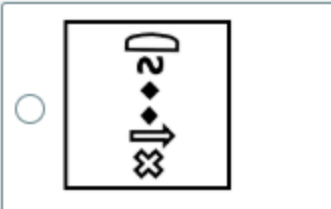


## 12. Question 12

Which of the following answer figures will continue the same series as established by the below four Question Figures?



Pick ONE option



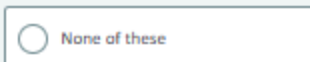
[Clear Selection](#)

### 13. Question 13

Identify the answer figure from which the pieces given in the question figure have been cut.



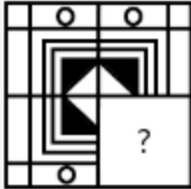
Pick **ONE** option



[Clear Selection](#)

#### 14. Question 14

Identify the figure that completes the pattern given below.



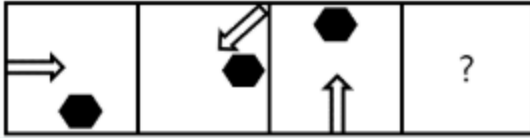
Pick **ONE** option



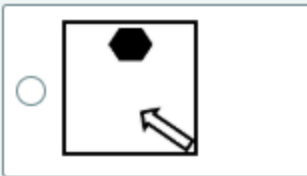
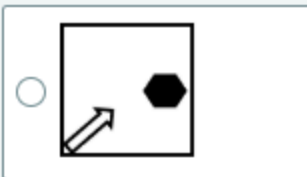
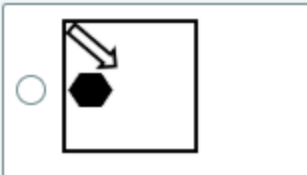
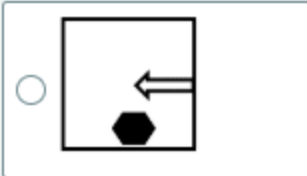
[Clear Selection](#)

### 15. Question 15

Which of the following answer figures will continue the same series as established by the below four Question Figures?



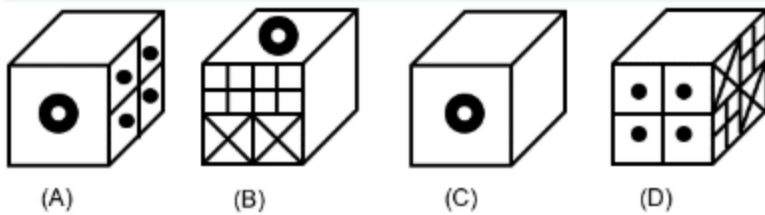
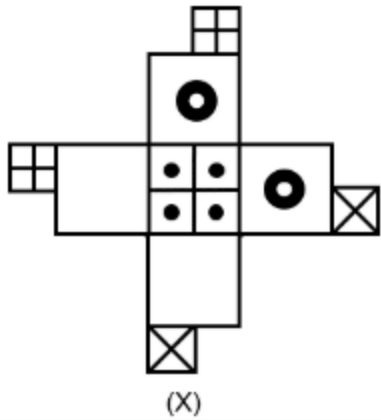
Pick ONE option



Clear Selection

### 16. Question 16

Which of the following cubes cannot be formed by folding the given sheet of paper (X)?



Pick **ONE** option



Only A and C



Only B and D



Only C and D

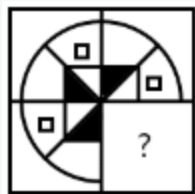


Only A and D

[Clear Selection](#)

17. Question 17

Identify the figure that completes the pattern given below.



Pick ONE option



[Clear Selection](#)

### 18. Question 18

What will be the missing term of the series?

DMP, IOM, \_\_, SSG, XUD

Pick **ONE** option

☐ MPI

☐ MQI

☐ NPJ

☐ NQJ

[Clear Selection](#)

### 19. Question 19

Which of the following will come in place of question mark (?) in the following sequence so that it will complete the sequence?

Pick **ONE** option

☐ L31T

☐ N31Q

☐ M33P

☐ O39U

[Clear Selection](#)

## 20. Question 20

Which of the given options completes the below series?

Pick **ONE** option

☐ J21

☐ J18

☐ K19

☐ J19

[Clear Selection](#)

## 21. Question 21

Find the next term in the series:

-17, 4, -12, 12, -7, 20, -2,

Pick **ONE** option

☐ 28

☐ 24

☐ 26

☐ 30

[Clear Selection](#)



## 22. Question 22

Find the missing number in the following figure:



Pick **ONE** option

☐ 17

☐ 18

☐ 19

☐ 21

[Clear Selection](#)

## 23. Question 23

What will be the next term of the series?

2, 6, 13, 22, 35, \_\_

Pick **ONE** option

☐ 45

☐ 48

☐ 49

☐ 50

[Clear Selection](#)

## 24. Question 24

Which of the following will come in place of question mark (?) in the following sequence so that it will complete the sequence?  
D16W, F36U, J100S, (?), X576O

Pick **ONE** option

☐ P121R

☐ P256Q

☐ P144Q

☐ P256S

[Clear Selection](#)

## 25. Question 25

What will be the missing term of the series?  
21F, 18I, \_\_\_, 12O

Pick **ONE** option

☐ 15M

☐ 15N

☐ 15L

☐ 15O

[Clear Selection](#)

## 26. Question 26

Which of the following terms will replace '?'?

Pick **ONE** option

☐ H Q 5

☐ N Q 14

☐ N W 5

☐ N W 14

[Clear Selection](#)

## 27. Question 27

Which of the following words will come in the position of \* in the following series?

MEAL, FLIP, TRIP, \*

Pick **ONE** option

☐ FIND

☐ AGED

☐ AVOW

☐ FADE

[Clear Selection](#)

## 28. Question 28

Find the missing number in the following figure:



Pick **ONE** option

☐ 34

☐ 10

☐ 28

☐ 9

[Clear Selection](#)

## 29. Question 29

Which among the following numbers comes in the place of \* in the given number series?

11, 29, 55, \*, 181, 305

Pick **ONE** option

☐ 110

☐ 111

☐ 131

☐ 132

30. Question 30

Direction: The panel below describes the effect of various operators. Use the information in the panel to answer the questions that follow.

@

Changes the shading of the shapes within the box

#

Replaces all quadrilaterals with circles

S

Each shape moves one position to the right

S

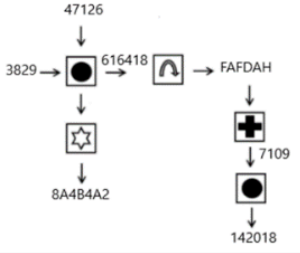
#

Pick **ONE** option

- 
- 
- 
- None of these

31. Question 31

**Direction:** The panel given below describes the effect of various operators, which are represented by symbols here. Use the information in the panel to answer the questions that follow.



863 → [●] → [●] → ?

Pick **ONE** option

- ☐ 6024412
- ☐ 4261820
- ☐ 2181024
- ☐ 2122412

32. Question 32

**Direction:** The panel below describes the effect of various operators. Use the information in the panel to answer the questions that follow.

@

Changes the shading of the shapes within the box

#

Replaces all quadrilaterals with circles

\$

Each shape moves one position to the right

#

@

\$

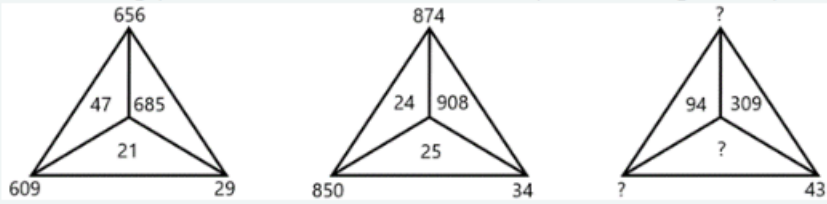
?

Pick **ONE** option

None of these

### 33. Question 33

In the following question, select the numbers that can be placed at the sign of the question mark (?) from the given alternatives.



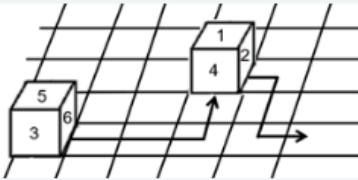
Pick **ONE** option

- ☐ 154, 244, 2
- ☐ 164, 252, 12
- ☐ 172, 266, 4
- ☐ 188, 289, 18

Clear Selection

### 34. Question 34

Which number will come on the top of the dice if it is moved by rolling one face at a time, to the square where there is an arrow?



Pick **ONE** option

- ☐ 2
- ☐ 6
- ☐ 3
- ☐ 4

21 22 23



35. Question 35

The panel given below describes the effect of various operators, which are represented by symbols here. Use the information in the panel and find the missing term.

FORMAT → & → IRUPDW → % → WSVQEI

TEACH → % → HFBDT → @ → FDZBR

EDITING → @ →  → % →  → & →

Pick **ONE** option

- ☐ GFKVKPI
- ☐ HFKVKPF
- ☐ IHLULFP
- ☐ IFLWGKP

[Clear Selection](#)

36. Question 36

**Direction:** The panel below describes the effect of various operators. Use the information in the panel to answer the questions that follow.

@

Changes the shading of the shapes within the box

#

Replaces all quadrilaterals with circles

\$

Each shape moves one position to the right

\$

?

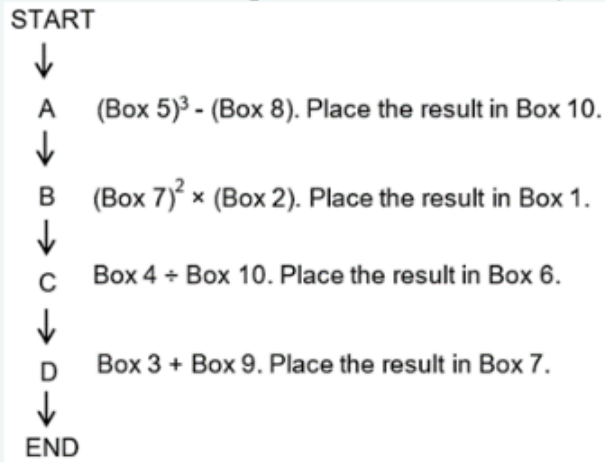
Pick **ONE** option

- 
- 
- 
- None of these

[Clear Selection](#)

### 37. Question 37

Consider the flowchart given below and answer the question that follows:



If the flowchart is executed on the below box, the numbers on which of the boxes will not be changed at the end?

Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8	Box 9	Box 10
0.121	10	0.02	2.2	1.2	4	0.11	0.228	0.009	0.5

Pick **ONE** option

☐

Box 7

☐

Box 10

☐

Box 1

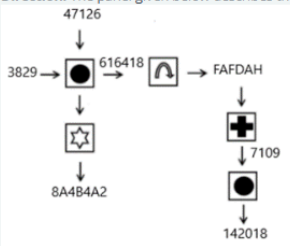
☐

Box 6

[Clear Selection](#)

38. Question 38

**Direction:** The panel given below describes the effect of various operators, which are represented by symbols here. Use the information in the panel to answer the questions that follow.



8154639785 → [↶] → [⊕] → ?

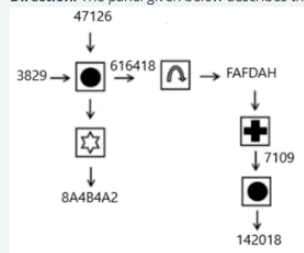
Pick **ONE** option

- ☐ 874545
- ☐ 784984
- ☐ 7854682
- ☐ 9991613

[Clear Selection](#)

39. Question 39

**Direction:** The panel given below describes the effect of various operators, which are represented by symbols here. Use the information in the panel to answer the questions that follow.



EZGR → [⊕] → [☆] → ?

Pick **ONE** option

- ☐ 4B5A
- ☐ 3A2E
- ☐ 5F6F
- ☐ 1C4E

[Clear Selection](#)

40. Question 40

**Direction:** The panel below describes the effect of various operators. Use the information in the panel to answer the questions that follow.

●

◇

■

@

○

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Changes the shading of the shapes within the box

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Replaces all quadrilaterals with circles

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Each shape moves one position to the right

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Pick **ONE** option

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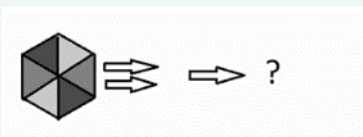
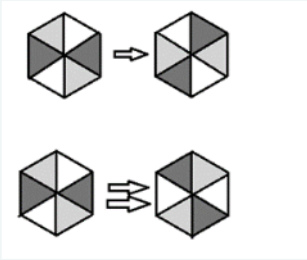
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41. Question 41

The diagram given below describes the effect of two operators, which are represented by symbols here. Use the information to answer the questions that follow.



Pick **ONE** option



## 42. Question 42

**Passage:**

Signed on June 28, 1919, as an end to the First World War, The Treaty of Versailles was supposed to ensure a lasting peace by punishing Germany and setting up a League of Nations to solve diplomatic problems. Instead, it left a legacy of political and geographical difficulties that have often been blamed, sometimes solely, for starting the Second World War.

World War I had been fought for four years when, on November 11, 1918, Germany and the Allies signed an armistice. The Allies soon gathered to discuss the peace treaty they would sign, but Germany and Austria-Hungary weren't invited; instead, they were allowed only to present a response to the treaty, a response that was largely ignored. Terms were drawn up mainly by the so-called Big Three: British Prime Minister Lloyd George, French Prime Minister Frances Clemenceau, and U.S. President Woodrow Wilson.

Each government represented by the men in the Big Three had different desires. Woodrow Wilson wanted a "fair and lasting peace" and had written a plan—the Fourteen Points—to achieve this. He wanted the armed forces of all nations reduced, not just the losers, and a League of Nations created to ensure peace.

Frances Clemenceau wanted Germany to pay dearly for the war, including being stripped of land, industry, and its armed forces. He also wanted heavy reparations.

Lloyd George was affected by public opinion in Britain, which agreed with Clemenceau, though he personally agreed with Wilson.

The result was a treaty that tried to compromise, and many of the details were passed down to uncoordinated subcommittees to work out, who thought they were drafting a starting point rather than the final wording. It was an almost impossible task. They were asking for the ability to pay off loans and debts with German cash and goods but also to restore the pan-European economy. The treaty needed to state territorial demands—many of which were included in secret treaties—but also to allow self-determination and deal with growing nationalism. It also needed to remove the German threat but not humiliate the nation and breed a generation intent on revenge—all while mollifying voters.

Modern historians sometimes conclude that the treaty was more lenient than might have been expected and not really unfair. They argue that, although the treaty didn't stop another war, this was more due to massive fault lines in Europe that WWI failed to solve, and they argue that the treaty would have worked had the Allied nations enforced it, instead of falling out and being played off one another. This remains a controversial view. You rarely find a modern historian agreeing that the treaty solely caused World War II, although clearly, it failed in its aim to prevent another major war.

**Question:** What does the passage suggest about the impact of public opinion on Lloyd George's stance during the treaty negotiations?

Pick **ONE** option

- ☐ Public opinion in Britain was strongly against the treaty's terms.
- ☐ Lloyd George disregarded public opinion to support Wilson's plan.
- ☐ Lloyd George's stance was influenced by both public opinion and personal agreement.
- ☐ Public opinion in Britain had no effect on the treaty negotiations.

Clear Selection

## 43. Question 43

**Passage:**

Signed on June 28, 1919, as an end to the First World War, The Treaty of Versailles was supposed to ensure a lasting peace by punishing Germany and setting up a League of Nations to solve diplomatic problems. Instead, it left a legacy of political and geographical difficulties that have often been blamed, sometimes solely, for starting the Second World War.

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**Question:** Based on the passage, why was drafting the Treaty of Versailles described as an "almost impossible task"?

Pick **ONE** option

- ☐ The treaty needed to achieve multiple conflicting objectives.
- ☐ The subcommittees lacked coordination and expertise.
- ☐ The treaty's terms conflicted with each nation's economic goals.
- ☐ The secret treaties were too difficult to incorporate.

Clear Selection

44. Question 44

**Passage:**  
Signed on June 28, 1919, as an end to the First World War, The Treaty of Versailles was supposed to ensure a lasting peace by punishing Germany and setting up a League of Nations to solve diplomatic problems. Instead, it left a legacy of political and geographical difficulties that have often been blamed, sometimes solely, for starting the Second World War.  
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**Question:** According to the passage, why did the Treaty of Versailles fail to prevent another major war, despite some historians' claims?

Pick **ONE** option

- ☐ The treaty's terms were too lenient and favorable to Germany.
- ☐ The Allied nations were unable to agree on enforcing the treaty.
- ☐ Germany's military power was completely dismantled after the war.
- ☐ The League of Nations lacked the authority to address geopolitical tensions.

Clear Selection

45. Question 45

**Passage:**  
Signed on June 28, 1919, as an end to the First World War, The Treaty of Versailles was supposed to ensure a lasting peace by punishing Germany and setting up a League of Nations to solve diplomatic problems. Instead, it left a legacy of political and geographical difficulties that have often been blamed, sometimes solely, for starting the Second World War.  
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**Question:** What was the underlying goal of Woodrow Wilson's Fourteen Points plan regarding armed forces reduction?

Pick **ONE** option

- ☐ To create a sense of equality among nations in terms of military power.
- ☐ To establish a League of Nations that controlled all armed forces.
- ☐ To ensure that only the losing nations reduced their armed forces.
- ☐ To prevent Germany from rebuilding its armed forces entirely.

Clear Selection



46. Question 46

Passage:

Signed on June 28, 1919, as an end to the First World War, The Treaty of Versailles was supposed to ensure a lasting peace by punishing Germany and setting up a League of Nations to solve diplomatic problems. Instead, it left a legacy of political and geographical difficulties that have often been blamed, sometimes solely, for starting the Second World War.

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Question: Why did some modern historians challenge the view that the Treaty of Versailles solely caused World War II?

Pick **ONE** option

- ☐ They believed that Germany was too powerful to be controlled by a treaty.
- ☐ They thought the treaty's terms were too lenient and didn't impact Germany's economy.
- ☐ They believed that Germany's armed forces were fully dismantled after the treaty.
- ☐ They saw broader issues in Europe that contributed to the outbreak of war.

Clear Selection

## 47. Question 47

**Direction:** Study the following information carefully and answer the questions that follow.

Lavya has bought 5 different coloured shirts - Red, Blue, Yellow, White and Black at different prices.

- I. The price of a yellow shirt is more than that of a white shirt but less than that of a blue shirt.
- II. The price of only one shirt is more than that of a red shirt. The price of a white shirt is Rs. 30 more than that of a black shirt.
- III. The difference between the prices of yellow and blue shirts is Rs. 320. The price of a red shirt is equal to the sum of the third & fifth expensive shirts.
- IV. The combined price of the most expensive and cheapest shirt is Rs. 100 less than twice the price of a red shirt.
- V. The price of the second cheapest shirt is half the price of the second expensive shirt.

**Question:** What is the total amount spent by Lavya on 5 shirts?

Pick **ONE** option

☐ Rs. 1540

☐ Rs. 1590

☐ Rs. 1610

☐ Rs. 1850

[Clear Selection](#)

48. Question 48

**Direction:** Study the following information carefully and answer the questions that follow.  
H1, H2, H3, H4, H5, H6, H7, H8 and H9 are nine houses in a society.

- H6 is 4 km north of H9 and H3 is 7 km east of H6.
- H5 is 12 km south of H3. H8 is 3 km west of H5 while H1 is 2 km north of H8.
- H4 is 6 km west of H1 and H7 is 5 km south of H4. H2 is 14 km north of H7.

**Question:**  
If a person from house H1 walks 5 km towards the north and stops there, then what is the distance between the person and house H9?

Pick **ONE** option

☐ 2 km

☐ 4 km

☐ 5 km

☐ 6 km

Clear Selection

49. Question 49

In each of the questions given below, a group of digits and symbols is given followed by four combinations of digits/symbols / numbered (A), (B), (C) and (D). You have to find out which of the four combinations correctly represents that group based on the symbol codes and the conditions given below.

Digits/Letters	V	7	Q	A	8	1	2	E	F	U	T	9	S	4	Z
Codes	k	@	n	3	h	*	%	!	\$	#	&	b	x	+	?

- Conditions for coding:
- I. If the first element is an even number and the last element is an odd number, then the codes for both of them are interchanged.
  - II. If the first element is a vowel and the last element is an odd number, then both are coded as code of the vowel.
  - III. If the first element is a consonant and the last element is an even number, then their codes will be the code of the consonant.
  - IV. If the first element is an odd number and the last element is an even number, then both of them are coded as 0.

Then the code of the word 'T9SZA127FVB' is:

Pick **ONE** option

☐ &bx73\*@\$%\$k&

☐ &bx73\*%@\$%k&

☐ &xb73%\*@\$%k&

☐ &xb73%\*@k\$&

Clear Selection

50. Question 50

In each of the questions given below, two words are given followed by four combinations of digits/symbols / numbered (A), (B), (C) and (D). You have to find out which of the four combinations correctly represents that group of words based on the symbol codes and the conditions given below.

Digits/Letters	a	q	r	e	l	d	b	f	o	x	z	c	u	g	v
Codes	3	4	9	@	1	2	*	5	5	6	7	&	8	%	#

- Conditions for coding:
- (1) If for a word, the first letter is vowel and the last letter is consonant then both are to be coded as code of the first letter.
  - (2) If both the first letter and last letter of the word are vowels, then both of them will be coded as '0'.
  - (3) If both the first and last letters of the word are consonants, then both are to be coded as code of the last letter.
  - (4) If for a word, the first letter is consonant and the last letter is a vowel then both are coded as 'v'.

Then the code of 'ulidov xzgefe' is:

Pick **ONE** option

☐ 81\$2#+5%@6+

☐ 81\$28+6%@5+

☐ 812\$8+6%@5+

☐ #1\$28 06@%50

[Clear Selection](#)

51. Question 51

**Direction:** Study the following information carefully and answer the questions that follow.  
Lavya has bought 5 different coloured shirts - Red, Blue, Yellow, White and Black at different prices.

- I. The price of a yellow shirt is more than that of a white shirt but less than that of a blue shirt.
- II. The price of only one shirt is more than that of a red shirt. The price of a white shirt is Rs. 30 more than that of a black shirt.
- III. The difference between the prices of yellow and blue shirts is Rs. 320. The price of a red shirt is equal to the sum of the third & fifth expensive shirts.
- IV. The combined price of the most expensive and cheapest shirt is Rs. 100 less than twice the price of a red shirt.
- V. The price of the second cheapest shirt is half the price of the second expensive shirt.

**Question:** What is the difference between the prices of red and blue shirts?

Pick **ONE** option

☐ Rs. 110

☐ Rs. 140

☐ Rs. 160

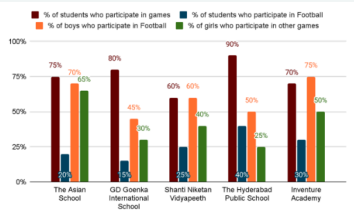
☐ Rs. 190

[Clear Selection](#)

52. Question 52

**Direction:** Study the information given below and answer the question that follows:  
The following bar graph depicts the percentage of students who participated in games, among them the percentage of students who participated in football, the percentage of boys who participated in football out of the students who participated in football and the percentage of girls who participated in other games from the same school. The participating students are divided into two categories, those who play Football and other games.

Note: The number of students who participated in other games in The Asian School, GD Goenka International School, Shanti Niketan Vidyaapeeth, The Hyderabad Public School, and Inventure Academy are 240, 340, 315, 324 and 196 respectively.



The number of students who play other games in Shanti Niketan Vidyaapeeth play Kabaddi, Hockey and Badminton in the ratio of 5:4:6. The number of students who play Badminton in Shanti Niketan Vidyaapeeth is what percentage more/less than the number of boys who play Football in The Hyderabad Public School?

Pick **ONE** option

- ☐ 18%
- ☐ 15%
- ☐ 12.5%
- ☐ 16.66%

Clear Selection

53. Question 53

In a certain language, if the word JAPAN is coded as EWMYM, then what is the code for the word INDIA in that language?

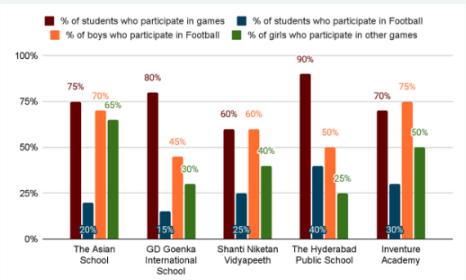
Pick **ONE** option

- ☐ DJAGZ
- ☐ DJAGY
- ☐ DAJIH
- ☐ DAJKH

Clear Selection

54. Question 54

Direction: Study the information given below and answer the question that follows:  
The following bar graph depicts the percentage of students who participated in games, among them the percentage of students who participated in football, the percentage of boys who participated in football out of the students who participated in football and the percentage of girls who participated in other games from the same school. The participating students are divided into two categories, those who play Football and other games.  
Note: The number of students who participated in other games in The Asian School, GD Goenka International School, Shanti Niketan Vidyapeeth, The Hyderabad Public School, and Inventure Academy are 240, 340, 315, 324 and 196 respectively.



Find the difference between the average number of boys who play Football and the average number of girls who play other games in all the Institutions?

Pick **ONE** option

- ☐ 47
- ☐ 52
- ☐ 91
- ☐ 78

55. Question 55

There are two clocks, both set to show the correct time at 6 a.m. The first clock gains 5 minutes in one hour whereas the second clock gains 4 minutes in one hour. If the second clock shows the time as 9:12 a.m. on the same day, then what time does the other clock show? (Note: The clock is in 12 hour format).

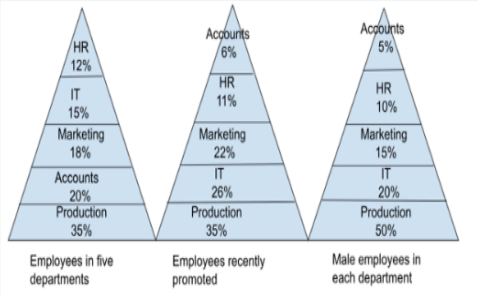
Pick **ONE** option

- ☐ 9:15 am
- ☐ 9:12 am
- ☐ 9:05 am
- ☐ 9:00 am

Clear Selection

56. Question 56

**Direction:** Study the information given below and answer the question that follows:  
Consider the following funnel diagrams. Each diagram shows the distribution of the percentage of employees occupied in different departments. The leftmost funnel shows the distribution of employees as a percentage of the total employees in the 5 departments, the middle funnel depicts the percentage distribution of the recently promoted employees in the five departments out of the total recently promoted employees and the rightmost funnel is the percentage distribution of male employees in the 5 departments out of the total male employees.



Employees in five departments: Employees recently promoted: Male employees in each department = 8 : 3 : 5  
**Question:** What is the average of the total male employees working in the IT department and total female employees working in the Marketing department, if the difference between the number of employees who got promoted from the Production and HR departments is 360?

Pick **ONE** option

- ☐ 391.5
- ☐ 422.5
- ☐ 398.5
- ☐ 425.5

[Clear Selection](#)

57. Question 57

**Direction:** Study the following information carefully and answer the questions that follow.  
H1, H2, H3, H4, H5, H6, H7, H8 and H9 are nine houses in a society.

- H6 is 4 km north of H9 and H3 is 7 km east of H6.
- H5 is 12 km south of H3. H8 is 3 km west of H5 while H1 is 2 km north of H8.
- H4 is 6 km west of H1 and H7 is 5 km south of H4. H2 is 14 km north of H7.

If a woman from house H7 walks 3 km north, takes a right turn & walks for another 9 km, then what will be her next turn and how many km will she walk to reach house H3?

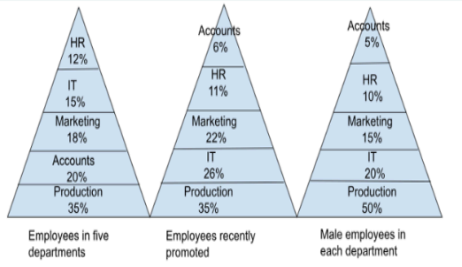
Pick **ONE** option

- ☐ Left, 12 km
- ☐ Left, 10 km
- ☐ Right, 9 km
- ☐ Right, 10 km

[Clear Selection](#)

58. Question 58

**Direction:** Study the information given below and answer the question that follows:  
Consider the following funnel diagrams. Each diagram shows the distribution of the percentage of employees occupied in different departments. The leftmost funnel shows the distribution of employees as a percentage of the total employees in the 5 departments, the middle funnel depicts the percentage distribution of the recently promoted employees in the five departments out of the total recently promoted employees and the rightmost funnel is the percentage distribution of male employees in the 5 departments out of the total male employees.



Employees in five departments: Employees recently promoted: Male employees in each department = 8 : 3 : 5  
**Question:** What is the total number of employees promoted in the Accounts department and the total number of male employees in the IT department, if the total number of female employees in the Production department is 392 which is 40% of total employees in the Production department?

Pick **ONE** option

- ☐ 377
- ☐ 314
- ☐ 416
- ☐ 413

[Clear Selection](#)



59. Question 59

If (5, 6) is a vertex and  $6x - 2y + 7 = 0$  is the equation of a diagonal of a square, then find the equation of the other diagonal of the square.

Pick **ONE** option

- ☐  $x + 3y - 23 = 0$
- ☐  $x + 3y - 27 = 0$
- ☐  $x + 3y - 28 = 0$
- ☐  $x + 3y + 23 = 0$

[Clear Selection](#)

60. Question 60

The HCF of two natural numbers P and Q is 117 and their sum is 1989. If L and M are the maximum and the minimum difference (positive) between P and Q, respectively, find the value of  $L - M$ .

Pick **ONE** option

- ☐ 1500
- ☐ 1620
- ☐ 1638
- ☐ 1563

[Clear Selection](#)

## 61. Question 61

If  $\theta \in [0, 2\pi]$ , for which of the following ranges of  $\theta$  is  $|\sin \theta + \cos \theta| < 1/\sqrt{2}$ ?

- A.  $(\frac{\pi}{4}, \frac{5\pi}{6})$
- B.  $(\frac{2\pi}{3}, \frac{11\pi}{12})$
- C.  $(0, \frac{\pi}{6})$
- D.  $(\frac{7\pi}{6}, \frac{3\pi}{2})$

Pick **ONE** option

☐ A

☐ B

☐ C

☐ D

[Clear Selection](#)

## 62. Question 62

If  $f(x) = x^2 - bx + c$ . Also,  $f(1)$  and  $f(2)$  are of opposite signs, then which of the following cannot be the value  $f(0)$ ?

Pick **ONE** option

☐ 1

☐ 2

☐ -3

☐ 0

63. Question 63

There are 4 students – A, B, C, and D each having a certain amount of money. The average amount with them is ₹ 300. If the amount with A and B are increased by 20% and 30%, respectively, the average amount with all of them will increase by ₹ 42.50. Instead, if the amount with A and B are increased by 30% and 20%, respectively, the average amount with all of them increased by ₹ 45. If the amount with C is 27.27% more than the amount with D, find the amount (in ₹) with C.

Pick **ONE** option

- ☐ 280
- ☐ 283
- ☐ 125
- ☐ 150

[Clear Selection](#)

64. Question 64

How many integral values of K satisfy the inequality given below?  
 $(10 - (5|K| - |K - 5|)) \geq 0$

Pick **ONE** option

- ☐ 4
- ☐ 6
- ☐ 7
- ☐ More than 7

### 65. Question 65

If  $\log_7 5 = A$  and  $\log_7 7 = B$ , then  $\log_{16} 70$  is equal to?

Pick **ONE** option

☐

$4(1-A-B)$

☐

$1/4(1-A-B)$

☐

$4/(1-A-B)$

☐

$(1-A-B)/4$

[Clear Selection](#)

### 66. Question 66

Hrithik draws a card from a well-shuffled pack of cards. If the card is a red king, he is paid ₹39 while if it is a black honour, he is paid ₹26 and in all the other cases, he has to pay ₹13. In the long run per draw of a card, Hrithik makes an average:

Pick **ONE** option

☐

Profit of ₹5

☐

Loss of ₹5

☐

Profit of ₹3.50

☐

Loss of ₹3.50

[Clear Selection](#)

69. Question 69

Chef P can prepare 10 dishes in 8 hours. Chef Q can prepare the same number of dishes in 10 hours while Chef R can prepare them in 12 hours. All the chefs started at 9 A.M. while Chef P left his work at 11 A.M. and the remaining two chefs completed the Dish. Approximately at what time will the work be finished?

Pick **ONE** option

☐ 11:30 A.M

☐ 12 noon

☐ 12:30 PM

☒ 1:00 PM

[Clear Selection](#)

70. Question 70

A fruit juice center in Delhi offers juice in glasses of three different sizes. The product of the prices of those three different sizes is ₹ 2400. The price of the medium and the large size are in the ratio 2 : 5. If the owner of the Juice center increased the price of the medium and the large ones by ₹18 each, but kept the price of the smallest size glass the same as previously, the product changes to ₹ 9600. Find the approximate sum of the original prices of all the 3 glasses of different sizes (in ₹).

Pick **ONE** option

☐ 49

☐ 52

☐ 42

☐ 58