

Book For
Air Force Common Admission Test



Common Admission Test Common Admission Test Non Verbal Reasoning



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Q. 1 Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.

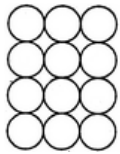


- [A] 1
- [B] 2
- [C] 3
- [D] 4

Answer Option [D]

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Q. 2 In the adjoining figure, if the centres of all the circles are joined by horizontal and vertical lines, then find the number of squares that can be formed.



- [A] 6
- [B] 7
- [C] 8
- [D] 1

Answer Option [C]

Explanation:

The figure may be labelled as shown.



We shall join the centres of all the circles by horizontal and vertical lines and then label the resulting figure as shown.

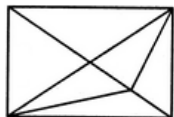
The simplest squares are ABED, BCFE, DEHG, EFIH, GHKJ and HILK i.e. 6 in number.

The squares composed of four simple squares are ACIG and DFLJ i.e. 2 in number.

Thus, $6 + 2 = 8$ squares will be formed.

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Q. 3 Find the number of triangles in the given figure.



- [A] 11
- [B] 13
- [C] 15
- [D] 17

Answer Option [C]

Explanation:

The figure may be labelled as shown.



The simplest triangles are AFB, FEB, EBC, DEC, DFE and AFD i.e. 6 in number.

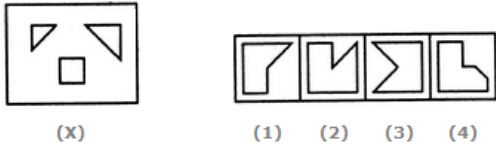
The triangles composed of two components each are AEB, FBC, DFC, ADE, DBE and ABD i.e. 6 in number.

The triangles composed of three components each are ADC and ABC i.e. 2 in number.

There is only one triangle i.e. DBC which is composed of four components.

Thus, there are $6 + 6 + 2 + 1 = 15$ triangles in the figure.

Q. 4 Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure (X).

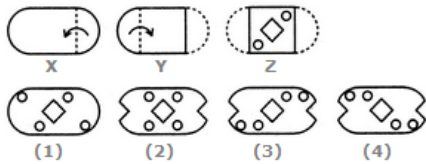


- [A] 1
- [B] 2
- [C] 3
- [D] 4

Answer Option [A]

Explanation:

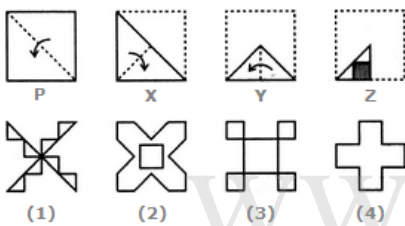
Q. 5 Choose a figure which would most closely resemble the unfolded form of Figure (Z).



- [A] 1
- [B] 2
- [C] 3
- [D] 4

Answer Option [C]

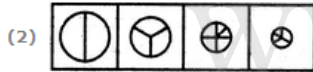
Q. 6 Choose a figure which would most closely resemble the unfolded form of Figure (Z).



- [A] 1
- [B] 2
- [C] 3
- [D] 4

Answer Option [C]

Q. 7 Choose the set of figures which follows the given rule.
 Rule: As the circle decreases in size, its sectors increase in number.



- [A] 1
- [B] 2
- [C] 3
- [D] 4

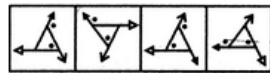
Answer Option [D]

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Q. 8 Find out how will the key figure (X) look like after rotation.



(X)



(1) (2) (3) (4)

- [A] 1
- [B] 2
- [C] 3
- [D] 4

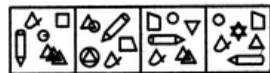
Answer Option [D]

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Q. 9 Select the alternative in which the specified components of the key figure (X) are found.



(X)



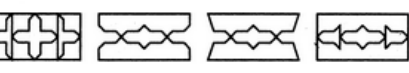
(1) (2) (3) (4)

- [A] 1
- [B] 2
- [C] 3
- [D] 4

Answer Option [C]

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Q. 10 Choose a figure which would most closely resemble the unfolded form of Figure (Z).



(1) (2) (3) (4)

- [A] 1

[B] 2

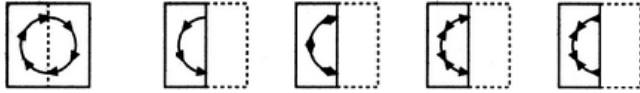
[C] 3

[D] 4

Answer Option [B]

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Q. 11 Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



[A] 1

[B] 2

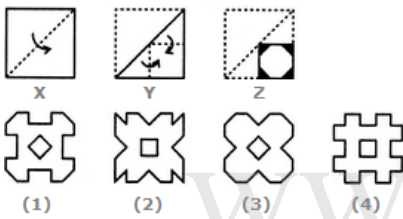
[C] 3

[D] 4

Answer Option [C]

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Q. 12 Choose a figure which would most closely resemble the unfolded form of Figure (Z).



[A] 1

[B] 2

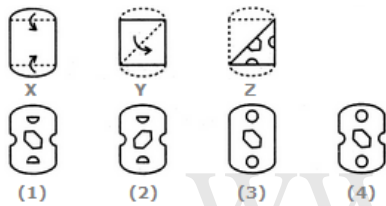
[C] 3

[D] 4

Answer Option [C]

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Q. 13 Choose a figure which would most closely resemble the unfolded form of Figure (Z).



[A] 1

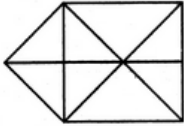
[B] 2

[C] 3

[D] 4

Answer Option [D]

Q. 14 Find the number of triangles in the given figure.



- [A] 15
- [B] 16
- [C] 17
- [D] 18

Answer Option [C]

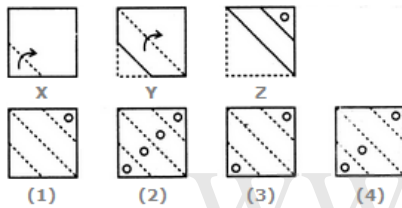
Explanation:

The figure may be labelled as shown.



The simplest triangles are ABF, BFG, BCG, CGH, GHD, GED, EFG and AFE i.e. 8 in number.
 The triangles composed of two components each are ABG, BGE, AGE, ABE and GCD i.e. 5 in number.
 The triangles composed of three components each are BCD, CDE, BED and BCE i.e. 4 in number.
 Thus, there are $8 + 5 + 4 = 17$ triangles in the figure.

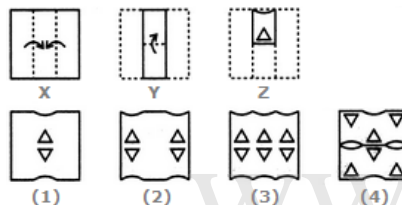
Q. 15 Choose a figure which would most closely resemble the unfolded form of Figure (Z).



- [A] 1
- [B] 2
- [C] 3
- [D] 4

Answer Option [A]

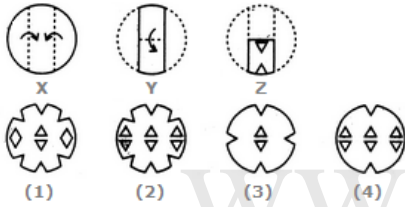
Q. 16 Choose a figure which would most closely resemble the unfolded form of Figure (Z).



- [A] 1
- [B] 2
- [C] 3
- [D] 4

Answer Option [C]

Q. 17 Choose a figure which would most closely resemble the unfolded form of Figure (Z).

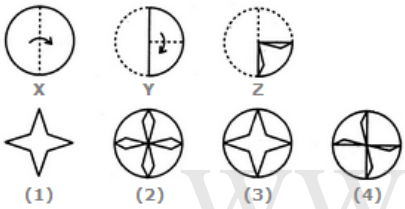


- [A] 1
- [B] 2
- [C] 3
- [D] 4

Answer Option [D]

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Q. 18 Choose a figure which would most closely resemble the unfolded form of Figure (Z).

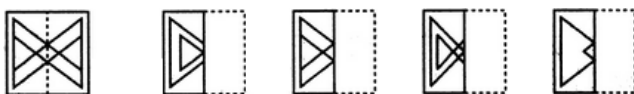


- [A] 1
- [B] 2
- [C] 3
- [D] 4

Answer Option [B]

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Q. 19 Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.

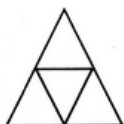


- [A] 1
- [B] 2
- [C] 3
- [D] 4

Answer Option [B]

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Q. 20 Find the number of triangles in the given figure.



- [A] 4

[B] 5

[C] 6

[D] 7

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Answer Option [B]

Explanation:

The figure may be labelled as shown.



The simplest triangles are ADE, BDF, DEF and EFC i.e. 4 in number.

There is only one triangle ABC composed of four components.

Thus, there are $4+1 = 5$ triangles in the given figure.