

AFCAT Memory Based Paper - 13 Feb 2022

Q1 Four elements are given, three of which are alike in a certain way while one is not. Select the odd one out.

- (A) K1122 (B) P1632
(C) N148 (D) D48

Q2 Four words are given, three of which are alike in a certain way while one is not. Select the odd one out.

- (A) Gidda (B) Garba
(C) Kathak (D) Pongal

Q3 Select the option in which the words share the same relationship as that shared by the given pair of words.

Train : Yard :: ____ : Hanger

- (A) Car (B) Aeroplane
(C) Ship (D) Boat

Q4 Select the option in which the words share the same relationship as that shared by the given pair of words.

Secunderabad : Hyderabad

- (A) Delhi : Gurgaon
(B) Ahmedabad : Gandhinagar
(C) Kolkata : Hoogly
(D) Chandigarh : Kolkata

Q5 Select the option in which the words share the same relationship as that shared by the given pair of words.

Brood : Hen :: Litter : ?

- (A) Cat (B) Pen
(C) Buildings (D) Vehicle

Q6 Four words are given, three of which are alike in a certain way while one is not. Select the odd one out.

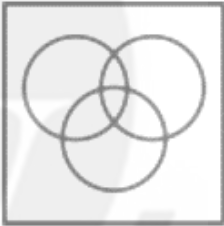
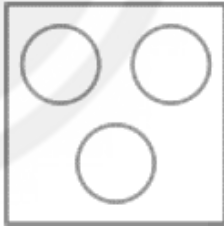
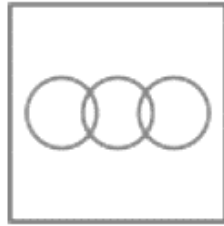

- (A) Cheese (B) Yogurt
(C) Curd (D) Tofu

Q7 Study the given pattern carefully and select the number that can replace the question mark(?) in it.

10	5	105
20	?	420
30	15	915

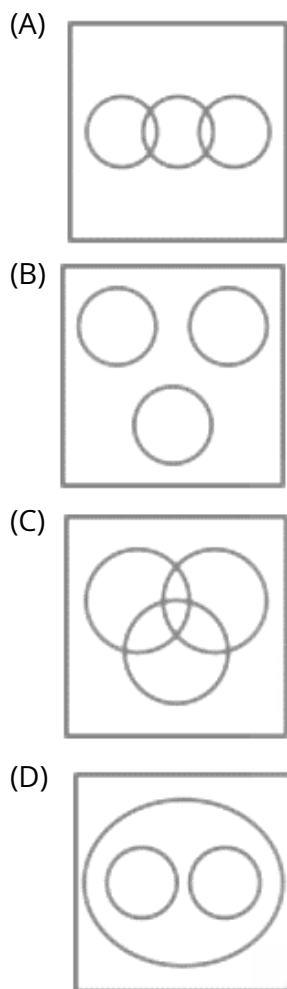
- (A) 10 (B) 15
(C) 20 (D) 25

Q8 Select the Venn diagram that best represents the relationship between the following words. Seed, Root, Leaf

- (A) 
- (B) 
- (C) 
- (D) 



- Q9** Select the Venn diagram that best represents the relationship between the following words.
India, Bihar, Ranchi



- Q10** If in a certain language, MIRACLE is coded as NKUEHRL, then how is GAMBLE coded in that language?

(A) JDOCMF (B) CLEMNK
(C) HCPFQK (D) AELGMN

- Q11** There are six persons A, B, C, D, E and F. C is the sister of F. B is the brother of E's husband. D is the father of A and grandfather of F. There are two fathers, three brothers and a mother in the group. Who is the mother?

(A) B (B) E
(C) A (D) D

- Q12** Pointing to a photograph, Rohit said, "She is the daughter of the only son of my father." How is Rohit related to the girl in the photograph?

(A) Cousin (B) Uncle
(C) Father (D) Brother

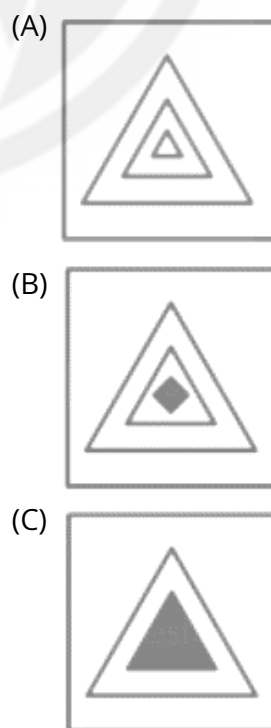
- Q13** From her house, Puja went 15 km to the North. Then she turned west and covered 10 km. Then, she turned south and covered 5 km. Finally turning to east, she covered 10 km to reach Mathura railway station. In which direction is the railway station from her house?

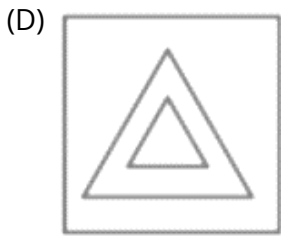
(A) North (B) East
(C) North- East (D) West

- Q14** Point R is 10 km to the south of point T. Point R is 13 km to the west of point W. Point W is 16 km to the north of point S. Point G is 25 km to the west of Point S. If point M is 21 km to the south of point R, then point G is how far from point M and point W is in which direction from point M?

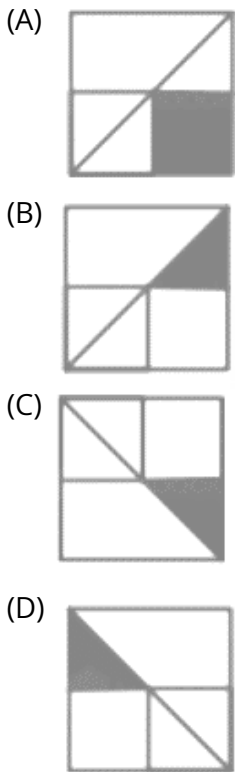
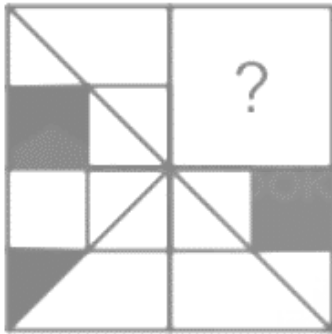
(A) 18 km, South East
(B) 19 km, North East
(C) 13 km, South West
(D) 13 km, North East

- Q15** In the following question, select the odd figure from the given alternatives.



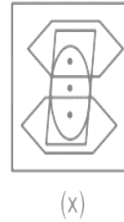


Q16 Select the option that can replace the question mark (?) in the given figure and complete the pattern (rotation is NOT allowed).

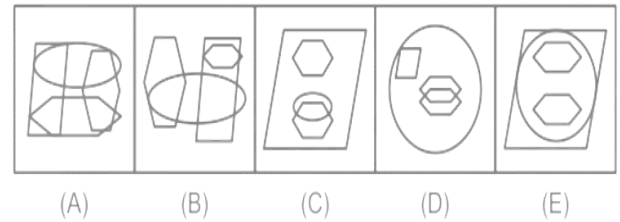


Q17 From amongst the figures (A), (B), C ,(D) and (E), select the figure which satisfies the same conditions of placement of the dots as in figure (X)

Problem Figure



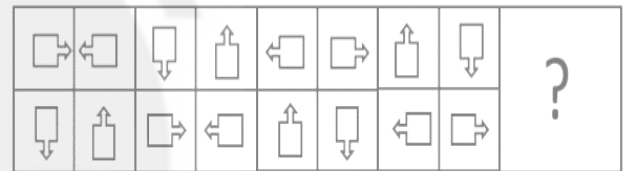
Answer Figure



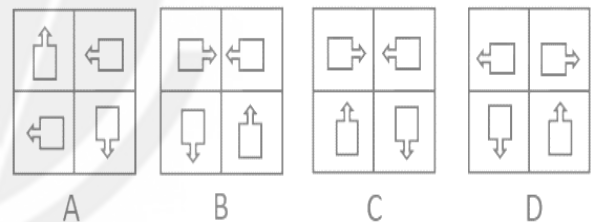
- (A) A (B) B
(C) C (D) E

Q18 Select the option that can replace the question mark (?) in the following series.

Question Figure:



Answer Figures:



- (A) B (B) D
(C) C (D) A

Q19 Rearrange the jumbled letters to make meaningful words and then select the one which is different.

- (A) NIDEKY (B) HIGHT
(C) TEHAR (D) NGUSL

Q20 There are five students A, B, C, D and E. In an examination each one scored different marks. C has scored more marks than E and B and C got the second position among all five., A has scored more marks than D and B, D scored



more marks than B. No one scored less than E.

Who scored the highest marks among them?

- (A) A (B) C
(C) D (D) E

Q21 Three of the following four letter -clusters are alike in a certain way and one is different. Pick the odd one out.

- (A) DFGI (B) SUVX
(C) DFHJ (D) LNOQ

Q22 If '+' means \div , '-' means \times ,
' \times ' means '+', ' \div ' means '-', then the
value of $11 \times 15 - 81 + 27 \div 18$ will be?

- (A) 83 (B) -214
(C) 38 (D) 146

Q23 If 'A' means '+', 'B' means ' \times ', 'C' means ' \div ', and
'D' means '-', then

$16 C 7 B 49 C 28 A 63 D 21 A 11 = ?$

- (A) 57 (B) 49
(C) 63 (D) 47

Q24 Select the option that is related to the third
letter- cluster in the same way as the second
letter- cluster is related to the first letter-
cluster.

ALONE : ZOLMV :: GROUP : ?

- (A) TIFLK (B) TIKFL
(C) TILFK (D) TILKF

Q25 In the following question, select the odd word
from the given alternatives.

- (A) Revoke (B) Cancel
(C) Abrogate (D) Establish



Answer Key

Q1 C
Q2 D
Q3 B
Q4 B
Q5 A
Q6 D
Q7 C
Q8 B
Q9 D
Q10 C
Q11 B
Q12 C
Q13 A

Q14 D
Q15 B
Q16 B
Q17 D
Q18 A
Q19 B
Q20 A
Q21 C
Q22 C
Q23 A
Q24 C
Q25 D



Hints & Solutions

Note: scan the QR code to watch video solution

Q1 Text Solution:

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

Here the Logic followed is,
(Letter), (Place value of letter), (Place value of letter x 2)

1. K1122- K, 11, $11 \times 2 = 22$
2. P1632- P, 16, $16 \times 2 = 32$
3. N148- N, 14, $14 \times 2 = 28 \neq 8$
4. D48- D, 4, $4 \times 2 = 8$

Hence, N148 is the odd one out here.

Q2 Text Solution:

Explanation:

Word	Significance
Gidda	It is the dance form in Punjab.
Garba	It is the dance form in Gujrat.
Kathak	It is the dance form in Uttar Pradesh.
Pongal	It is a festival celebrated in the Tamil community.

Hence, Pongal is the odd one out here.

Q3 Text Solution:

Explanation:

The logic followed here is:

Train : Yard – The place where train is standing in rest position is called Yard.

Similarly,

Aeroplane : Hanger – The place where Aeroplane is standing in rest position is called Hanger.

Hence, Aeroplane is the Correct answer.

Q4 Text Solution:

Explanation:

The logic followed here is:

Secunderabad : Hyderabad – Both the cities are known as the Twin City.

Similarly,

Ahmedabad : Gandhinagar – Both these cities are also known as the Twin City.

Hence, Ahmedabad : Gandhinagar is the correct answer.

Q5 Text Solution:

Explanation:

The logic followed here is:

Brood : Hen – All the young birds belong to one mother so the child of Hen is called Brood.

Similarly,

Litter : Cat – All the young animals that are born to one mother at the same time so the child of cat is called Litter.

Hence, Cat is the correct answer.

Q6 Text Solution:

Explanation:

Things	Component (Made of)
Cheese	It is made of Milk.
Yogurt	It is made of Milk.
Curd	It is made of Milk
Tofu	It is made of dried Soyabean.

Hence, Tofu is the odd one out here.

Q7 Text Solution:

Explanation:

Logic followed here is:



[Android App](#)

[iOS App](#)

[PW Website](#)

$$(Column\ 1)^2 + (Column\ 2)^2 = (Column\ 3)$$

$$Row-1 - (10)^2 + 5 = 100 + 5 = 105$$

$$Row-3 - (30)^2 + 15 = 915$$

Similarly,

Row-2 -

$$\Rightarrow (20)^2 + x = 420$$

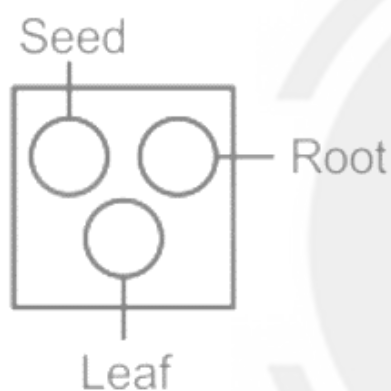
$$\Rightarrow 400 + x = 420$$

$$\Rightarrow x = 20$$

Q8 Text Solution:

Explanation:

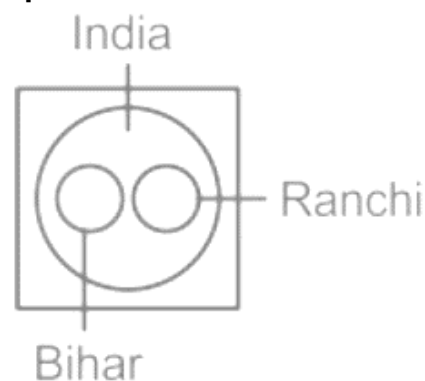
The Venn diagram best represent the relationship between - Seed, Root, Leaf figures are shown below:



Here all the three things are different Root and leaf are the different parts of the Tree or plant, seed from which a new plant grows.

Q9 Text Solution:

Explanation:



India the country, Bihar is a state in India, Ranchi is a city in India. So, Bihar and Ranchi will be separate in India.

Q10 Text Solution:

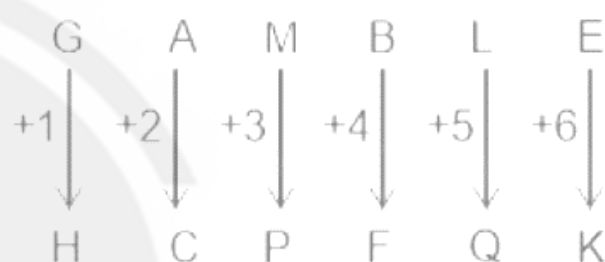
Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

Logic:



Similarly,



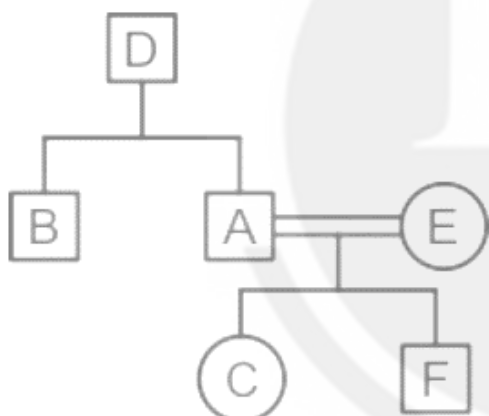
Q11 Text Solution:

Explanation:

By using the symbols in the table given below, we can draw the following family tree:



Symbol in Diagram	Meaning
○	Female
□	Male
==	Married Couple
—	Siblings
	Difference of a Generation



Here two fathers – A and D
 Three brothers – A, B and F
 Clearly, E is the mother

Q12 Text Solution:

Explanation:

By using the symbols in the table given below, we can draw the following family tree:

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married Couple
—	Siblings
	Difference of a Generation

Drawing the family tree as the given information:

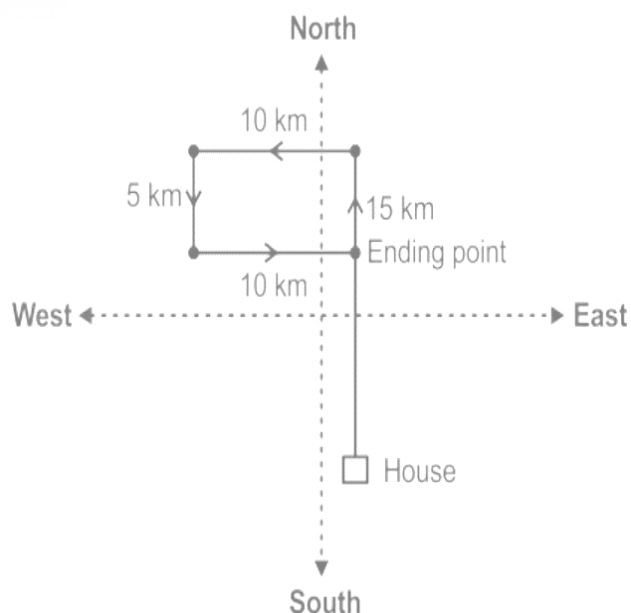


Clearly, Rohit is father of the girl in the photograph

Q13 Text Solution:

Explanation:

Drawing the diagram as per the given information:

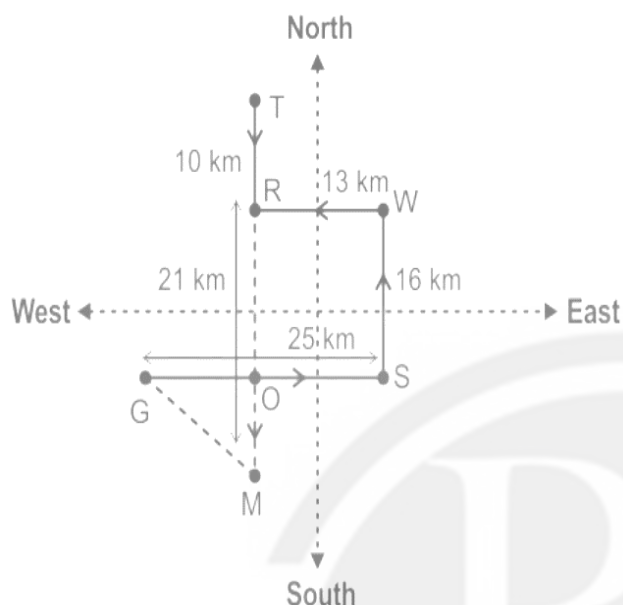


Thus, we can see railway station is in the North direction from her house.

Q14 Text Solution:

Explanation:

In the below diagram, distance between point G and destination point M.



$$RO = WS = 16 \text{ km}$$

$$MR = 21 \text{ km}$$

$$OM = MR - RO$$

$$OM = 21 \text{ km} - 16 \text{ km}$$

$$OM = 5 \text{ km}$$

$$OS = RW$$

$$GO = GS - OS$$

$$GO = 25 \text{ km} - 13 \text{ km}$$

$$GO = 12 \text{ km}$$

Now, Triangle GOM is a right angled triangle, so using Pythagoras Theorem:

$$GM^2 = OM^2 + GO^2$$

$$GM^2 = 5^2 + 12^2$$

$$GM = 13 \text{ km}$$

Then point G is 13 km far from the point M
Point W is North east from point M

Q15 Text Solution:

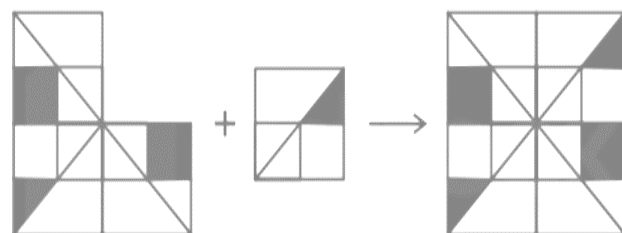
Explanation:

The logic followed is:

The same figure is embedded inside the main figure but in option 2, the same figure is not embedded inside the main figure. Hence, option 2 is the odd one

Q16 Text Solution:

Explanation:



Hence, option 2 is the correct answer

Q17 Text Solution:

Explanation:

On observing the given figure carefully, we get:
In the question figure (X),

1. One dot is the common area of hexagon, circle and parallelogram
2. One dot is in the common area of Parallelogram, circle and another hexagon
3. One dot is in the common area of the circle and parallelogram

Figure(E) – All the required condition are fulfilled as shown below:



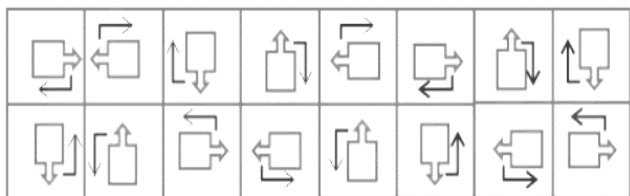
Q18 Text Solution:

Explanation:

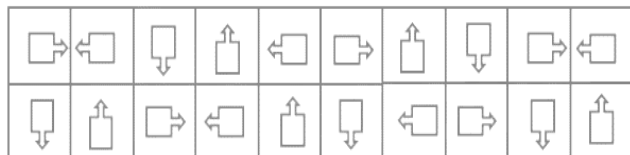
The pattern followed here is as follows:

1. The two figures at the top are rotating in the clockwise direction by 90 degrees.
2. The two figures at the bottom are rotating in the anti-clockwise direction by 90 degrees.





The image which will come next in the series is:



Q19 Text Solution:

Explanation:

NIDEKY is written as KIDNEY

HIGHT is written as THIGH

TEHAR is written as HEART

NGUSL is written as LUNGS

All the above options are internal organs i.e., present inside the human body except THIGH
Hence, the correct answer is HIGHT

Q20 Text Solution:

Explanation:

Students having marks in decreasing order:

$$A > C > D > B > E$$

Hence, the correct answer is A

Q21 Text Solution:

Explanation:

The logic is:

$$\begin{aligned} D &\xrightarrow{+2} F \xrightarrow{+1} G \xrightarrow{+2} I \\ S &\xrightarrow{+2} U \xrightarrow{+1} V \xrightarrow{+2} X \\ D &\xrightarrow{+2} F \xrightarrow{+2} H \xrightarrow{+2} J \\ L &\xrightarrow{+2} N \xrightarrow{+1} O \xrightarrow{+2} Q \end{aligned}$$

Hence, DFHJ is the odd one out

Q22 Text Solution:

Explanation:

Actual	Mean
+	÷
-	×
×	+
÷	-

Now given equation is

$$11 \times 15 - 81 + 27 \div 18 \text{ is coded as-}$$

$$11 + 15 \times 81 \div 27 - 18$$

$$\Rightarrow 11 + 15 \times 3 - 18$$

$$\Rightarrow 38$$

Hence, Option (3) is correct

Q23 Text Solution:

Explanation:

Decoding the information:

Symbol	A	B	C	D
Meaning	+	×	÷	-

Given equation is

$$16 \ C \ 7 \ B \ 49 \ C \ 28 \ A \ 63 \ D \ 21 \ A \ 11 \ =?$$

After replacing the signs from left to right and using the BODMAS rule,

$$16 \div 7 \times 49 \div 28 + 63 - 21 + 11 = ?$$

$$2.28571 \times 1.75 + 63 - 21 + 11 = ?$$

$$4 + 63 - 21 + 11 = ?$$

$$78 - 21 = ?$$

$$? = 57$$

Q24 Text Solution:

Explanation:

Alphabets	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabets	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

The logic here is as follows:



A L O N E
 ↓ ↓ ↓ ↓ ↓ Reverse
 Z O L M V Letter

Similarly,

G R O U P
 ↓ ↓ ↓ ↓ ↓ Reverse
 T I L F K Letter

Q25 Text Solution:

Explanation:

Revoke, Cancel and Abrogate are synonyms of each other and while establish means to set up something or bring into existence.

Hence, establish is the odd one out.

Word	Meaning
Revoke	to annul by recalling or taking back
Cancel	to decide not to conduct or perform something planned or expected
Abrogate	to abolish or annul



[Android App](#)

| [iOS App](#)

| [PW Website](#)

