

Book For
Desert Medicine Research Centre



DMRC Reasoning Sample Paper 2016 PDF Download



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(1) gfe _ ig _ eii _ fei _ gf _ ii

[A] eifgi

[B] figie

[C] ifgie

[D] ifige

Answer : [C]

Explanation:

The series is gfeii/gfeii/gfeii/gfeii. Thus, the pattern 'gfeii' is repeated.

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(2) _ a _ b _ abaa _ bab _ abb

[A] aaabb

[B] ababb

[C] babab

[D] babba

Answer : [D]

Explanation:

The series is baa/bba/baa/bba/bba/bb. Thus, the pattern baa/bba is repeated.

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(3) _ stt _ tt _ tts _

[A] tsts

[B] ttst

[C] sstt

[D] tsst

Answer : [D]

Explanation:

The series is tst/tst/tst/tst. Thus, the pattern 'tst' is repeated.

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(4) _ tu _ rt _ s _ _ usrtu _

[A] rtusru

[B] rsutrr

[C] rsurtr

[D] rsurts

Answer : [D]

Explanation:

The series rtus/rtus/rtus/rtus. Thus, the pattern 'rtus' is repeated.

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(5) abca _ bcaab _ ca _ bbc _ a

[A] ccaa

[B] bbaa

[C] abac

[D] abba

Answer : [C]

Explanation:

The series is abc/aabc/aabbc/aabbcg/a.

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(6) Statements:

- I. Many people in the area are reported to be suffering from Malaria.**
- II. Private Medical Practitioners in the area have decided to close their clinics for few days.**

- [A] Statement I is the cause and statement II is its effect.
- [B] Statement II is the cause and statement I is its effect.
- [C] Both the statements I and II are independent causes.
- [D] Both the statements I and II are effects of independent causes.
- [E] Both the statements I and II are effects of some common cause.

Answer : [D]

Explanation: Both the statements I and II are effects of independent causes. Because spreading malaria or to be suffering from malaria may be due to mosquitoes or dirtiness. But the decision of private medical practitioners to close the clinics may be due to other causes.

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(7) Statements:

- I. The Government has increased rates of petrol and diesel by 10% from the immediate effect.**
- II. Oil producing countries have decided to increase 10% of production on crude oil from the last quarter.**

- [A] Statement I is the cause and statement II is its effect.
- [B] Statement II is the cause and statement I is its effect.
- [C] Both the statements I and II are independent causes.
- [D] Both the statements I and II are effects of independent causes.
- [E] Both the statements I and II are effects of some common cause.

Answer : [D]

Explanation: Both statements I and II are the effects of independent causes.

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(8) Statements:

- I. Large numbers of people have fallen sick after consuming sweets from a particular shop in the locality.**
- II. Major part of the locality is flooded and has become inaccessible to outsiders.**

- [A] Statement I is the cause and statement II is its effect.
- [B] Statement II is the cause and statement I is its effect.
- [C] Both the statements I and II are independent causes.
- [D] Both the statements I and II are effects of independent causes.
- [E] Both the statements I and II are effects of some common cause.

Answer : [D]

Explanation: Both statements I and II are the effects of independent causes.

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(9) Statements:

- I. The life today is too fast, demanding all full of variety in all aspects which at times leads to stressful situation.**

II. Number of suicide cases among teenagers is on increase.

- [A] Statement I is the cause and statement II is its effect.
- [B] Statement II is the cause and statement I is its effect.
- [C] Both the statements I and II are independent causes.
- [D] Both the statements I and II are effects of independent causes.
- [E] Both the statements I and II are effects of some common cause.

Answer : [E]

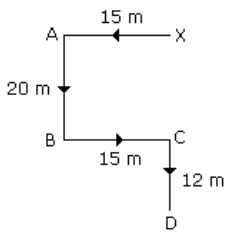
Explanation:

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(10) Starting from the point X, Jayant walked 15 m towards west. He turned left and walked 20 m. He then turned left and walked 15 m. After this he turned to his right and walked 12 m. How far and in which directions is now Jayant from X?

- [A] 32 m, South
- [B] 47 m, East
- [C] 42 m, North
- [D] 27 m, South

Answer : [A]



Required distance = 20 + 12

= 32 m in south direction

Explanation:

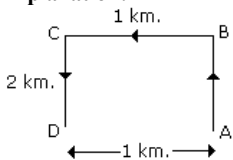
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(11) A boy rode his bicycle Northward, then turned left and rode 1 km and again turned left and rode 2 km. He found himself 1 km west of his starting point. How far did he ride northward initially?

- [A] 1 km
- [B] 2 km
- [C] 3 km
- [D] 5 km

Answer : [B]

Explanation:



The boy rode 2 km. Northward.

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(12) Two cars start from the opposite places of a main road, 150 km apart. First car runs for 25 km and takes a right turn and then runs 15 km. It then turns left and then runs for another 25 km and then takes the direction back to reach the main road. In the mean time, due to minor break down the other car has run only 35 km along the main road. What would be the distance between two cars at this point?


- [A] 65 km

[B] 75 km

[C] 80 km

[D] 85 km

Answer : [A]

Explanation: 

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(13) One evening before sunset Rekha and Hema were talking to each other face to face. If Hema's shadow was exactly to the right of Hema, which direction was Rekha facing?

[A] North

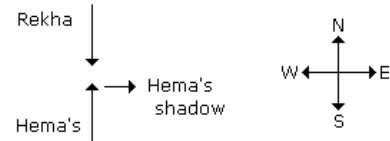
[B] South

[C] East

[D] Data is inadequate

Answer : [B]

Explanation:



In the evening sun sets in West. Hence then any shadow falls in the East. Since Hema's shadow was to the right of Hema. Hence Rekha was facing towards South.

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(14) The length and breadth of a room are 8 m and 6 m respectively. A cat runs along all the four walls and finally along a diagonal order to catch a rat. How much total distance is covered by the cat?

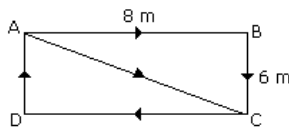
[A] 10

[B] 14

[C] 38

[D] 48

Answer : [C]



$$\begin{aligned} \text{Required distance} &= 8 + 6 + 8 + 6 + \sqrt{8^2 + 6^2} \\ &= 28 + \sqrt{100} \\ &= 28 + 10 \\ &= 38 \text{ m} \end{aligned}$$

Explanation:

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(15) K is 40 m South-West of L. If M is 40 m South-East of L, then M is in which direction of K?

[A] East

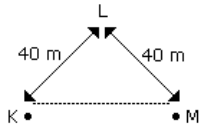
[B] West

[C] North-East

[D] South

Answer : [A]

Explanation:



Hence M is in the East of K.

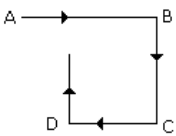
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(16) One morning sujata started to walk towards the Sun. After covering some distance she turned to right then again to the right and after covering some distance she again turns to the right. Now in which direction is she facing?

- [A] North
- [B] South
- [C] North-East
- [D] South-West

Answer : [A]

Explanation:



Hence finally Sujata will face towards North.

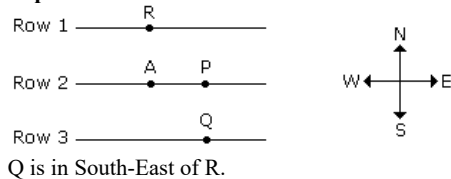
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(17) Some boys are sitting in three rows all facing North such that A is in the middle row. P is just to the right of A but in the same row. Q is just behind of P while R is in the North of A. In which direction of R is Q?

- [A] South
- [B] South-West
- [C] North-East
- [D] South-East

Answer : [D]

Explanation:



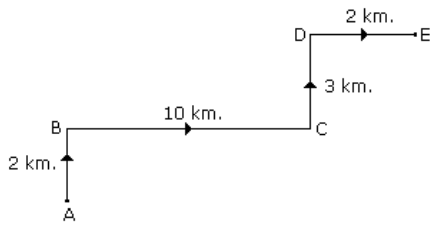
Q is in South-East of R.

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(18) A man walks 2 km towards North. Then he turns to East and walks 10 km. After this he turns to North and walks 3 km. Again he turns towards East and walks 2 km. How far is he from the starting point?

- [A] 10 km
- [B] 13 km
- [C] 15 km
- [D] None of these

Answer : [B]



Required distance = AE

$$= \sqrt{5^2 + 12^2}$$

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

Explanation:

(19) Hemant in order to go to university started from his house in the east and came to a crossing. The road to the left ends in a theatre, straight ahead is the hospital. In which direction is the university?

[A] North

[B] South

[C] East

[D] West

Answer : [A]

Explanation:



Therefore university is in North.

(20) Golu started from his house towards North. After covering a distance of 8 km. he turned towards left and covered a distance of 6 km. What is the shortest distance now from his house?

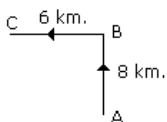
[A] 10 km.

[B] 16 km.

[C] 14 km

[D] 2 km.

Answer : [A]



Required distance = AC

$$= \sqrt{8^2 + 6^2}$$

$$= \sqrt{64 + 36}$$

$$= \sqrt{100}$$

$$= 10 \text{ km.}$$

Explanation: