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HRTC Reasoning Sample Paper 2016 PDF Download



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(1) Arrange the words given below in a meaningful sequence.

1. Rainbow 2. Rain 3. Sun
4. Happy 5. Child

[A] 4, 2, 3, 5, 1

[B] 2, 3, 1, 5, 4

[C] 4, 5, 1, 2, 3

[D] 2, 1, 4, 5, 3

Answer : [B]

Explanation:

The correct order is :

Rain Sun Rainbow Child Happy
2 3 1 5 4

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(2) Arrange the words given below in a meaningful sequence.

1. Heel 2. Shoulder 3. Skull 4. Neck 5. Knee
6. Chest 7. Thigh 8. Stomach 9. Face 10. Hand

[A] 3, 4, 7, 9, 2, 5, 8, 10, 6, 1

[B] 3, 9, 4, 2, 10, 6, 8, 7, 5, 1

[C] 2, 4, 7, 10, 1, 5, 8, 9, 6, 3

[D] 4, 7, 10, 1, 9, 6, 2, 5, 8, 3

Answer : [B]

Explanation:

The correct order is :

Skull Face Neck Shoulder Hand Chest Stomach Thigh Knee Heel
3 9 4 2 10 6 8 7 5 1

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(3) Arrange the words given below in a meaningful sequence.

1. Table 2. Tree 3. Wood 4. Seed 5. Plant

[A] 1, 2, 3, 4, 5

[B] 1, 3, 2, 4, 5

[C] 4, 5, 2, 3, 1

[D] 4, 5, 3, 2, 1

Answer : [C]

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(4) Arrange the words given below in a meaningful sequence.

1. Income 2. Status 3. Education 4. Well-being 5. Job

[A] 1, 2, 5, 3, 4

[B] 1, 3, 2, 5, 4

[C] 3, 1, 5, 2, 4

[D] 3, 5, 1, 2, 4

Answer : [D]

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(5) Arrange the words given below in a meaningful sequence.

1. Never 2. Sometimes 3. Generally 4. Seldom 5. Always

[A] 5, 2, 1, 3, 4

[B] 5, 2, 4, 3, 1

[C] 5, 3, 2, 1, 4

[D] 5, 3, 2, 4, 1

Answer : [D]

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(6) Arrange the words given below in a meaningful sequence.

1. Index 2. Contents 3. Title 4. Chapters 5. Introduction

[A] 2, 3, 4, 5, 1

[B] 3, 2, 5, 1, 4

[C] 3, 2, 5, 4, 1

[D] 5, 1, 4, 2, 3

Answer : [C]

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(7) Arrange the words given below in a meaningful sequence.

1. Windows 2. Walls 3. Floor 4. Foundation 5. Roof 6. Room

[A] 4, 1, 5, 6, 2, 3

[B] 4, 2, 1, 5, 3, 6

[C] 4, 3, 5, 6, 2, 1

[D] 4, 5, 3, 2, 1, 6

Answer : [B]

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(8) Arrange the words given below in a meaningful sequence.

1. Milky way 2. Sun 3. Moon 4. Earth 5. Stars

[A] 1, 4, 3, 2, 5

[B] 2, 3, 4, 5, 1

[C] 3, 4, 2, 5, 1

[D] 4, 3, 2, 5, 1

Answer : [C]

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(9) Arrange the words given below in a meaningful sequence.

1. Rain 2. Monsoon 3. Rescue 4. Flood 5. Shelter 6. Relief

[A] 1, 2, 3, 4, 5, 6

[B] 1, 2, 4, 5, 3, 6

[C] 2, 1, 4, 3, 5, 6

[D] 4, 1, 2, 3, 5, 6

Answer : [C]

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(10) Which one of the following is always found in 'Wonder'?

- [A] Crowd
- [B] Lumber
- [C] Astonishment
- [D] Rustic

Answer : [C]

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(11) A boy is sitting at the back seat of a car. When the driver suddenly starts moving the car (in forward direction), the boy experiences a backward force?

- [A] Always
- [B] Never
- [C] Often
- [D] Sometimes

Answer : [A]

Explanation:

When a car suddenly starts the lower part of the boy's body will be in the motion while his upper will be at rest. Hence he will always experience backward force:

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(12) What is found necessarily in game?

- [A] Players
- [B] Spectators
- [C] Referee
- [D] Victory

Answer : [A]

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(13) A group of 1200 persons consisting of captains and soldiers is travelling in a train. For every 15 soldiers there is one captain. The number of captains in the group is

- [A] 85
- [B] 80
- [C] 75
- [D] 70

Answer : [C]

Explanation:

Clearly, out of every 16 persons, there is one captain. So, number of captains $(1200/16) = 75$.

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(14) In a caravan, in addition to 50 hens, there are 45 goats and 8 camels with some keepers. If the total number of feet be 224 more than the number of heads in the caravan, the number of keepers is

- [A] 5
- [B] 8
- [C] 10
- [D] 15

Answer : [D]

Explanation:

Let number of keepers be x . Then,

Total number of feet = $2 \times 50 + 4 \times 45 + 4 \times 8 + 2x = 2x + 312$.

Total number of heads = $50 + 45 + 8 + x = 103 + x$.

Therefore $(2x + 312) = (103 + x) + 224$ or $x = 15$.

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(15) A monkey climbs 30 feet at the beginning of each hour and rests for a while when he slips back 20 feet before he again starts climbing in the beginning of the next hour. If he begins his ascent at 8.00 a.m., at what time will he first touch a flag at 120 feet from the ground?

[A] 4 p.m.

[B] 5 p.m.

[C] 6 p.m.

[D] None of these

Answer : [C]

Explanation:

Net ascent of the monkey in 1 hour = $(30 - 20)$ feet = 10 feet.

So, the monkey ascends 90 feet in 9 hours i.e. till 5 p.m.

Clearly, in the next 1 hour i.e. till 6 p.m. the monkey ascends remaining 30 feet to touch the flag.

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(16) An enterprising businessman earns an income of Re. 1 on the first day of his business. On every subsequent day, he earns an income which is just double of that made on the previous day. On the 10th day of business, his income is

[A] Rs. 2^9

[B] Rs. 2^{10}

[C] Rs. 10

[D] Rs. 10^2

Answer : [A]

Explanation:

Income on the first day = Re. 1.

Income on the 2nd day = Rs. $(1 \times 2) = \text{Rs. } 2^1$.

Income on the 3rd day = Rs. $(2^1 \times 2) = \text{Rs. } 2^2$ and so on. Thus, Income on the n th day = Rs. 2^{n-1} .

Therefore Income on the 10th day = Rs. 2^9 .

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(17) Between two book-ends in your study are displayed your five favourite puzzle books. If you decide to arrange the five books in every possible combination and moved just one book every minute, how long would it take you ?

[A] 1 hour

[B] 2 hours

[C] 3 hours

[D] 4 hours

Answer : [B]

Explanation:

Clearly, number of ways of arranging 5 books = $5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$.

So, total time taken = 120 minutes = 2 hours.

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(18) A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting ?

[A] Between B and D

[B] Between B and C

[C] Between E and D

[D] Between C and E

Answer : [B]

Explanation:

• • • • •
E B A C D

Therefore, A is sitting in between B and C.

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(19) There are 8 houses in a line and in each house only one boy lives with the conditions as given below:

- I. Jack is not the neighbour Siman.**
- II. Harry is just next to the left of Larry.**
- III. There is at least one to the left of Larry.**
- IV. Paul lives in one of the two houses in the middle.**
- V. Mike lives in between Paul and Larry.**

If at least one lives to the right of Robert and Harry is not between Taud and Larry, then which one of the following statement is not correct ?

- [A] Robert is not at the left end.
- [B] Robert is in between Simon and Taud.
- [C] Taud is in between Paul and Jack.
- [D] There are three persons to the right of Paul.

Answer : [C]

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(20) A, P, R, X, S and Z are sitting in a row. S and Z are in the centre. A and P are at the ends. R is sitting to the left of A. Who is to the right of P ?

- [A] A
- [B] X
- [C] S
- [D] Z

Answer : [B]

Explanation:

The seating arrangement is as follows:

• • • • • •
P X S Z R A

Therefore, right of P is X.

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