**AMCAT PREVIOUS YEAR QUESTION SET**

**Quantitative Ability**

Q.1. Choose the correct option.

What is the least number by which 16,800 must be divided to get a number that is a perfect square?

Options

1. 42
2. 24
3. 21
4. 40

Q.2. Choose the correct option.

Micro-Sims Pvt. Ltd. produces 1,200 phones every day. If out of these, % are faulty and % are defective in packaging, then how many non-faulty and non-defective packaged phones are produced every day?

Options

1. 80
2. 120
3. 1080
4. 1120

Q.3. Choose the correct option.

A salesman has the liberty to sell a hair dryer in his store at a price between Rs. 300 and Rs. 700. The Profit earned by selling the hair dryer for Rs. 650 is twice the loss incurred when it is sold for Rs. 350. What is the cost price of the hair dryer?

Options

1. Rs. 550
2. Rs. 450
3. Rs. 350
4. Rs. 150

Q.4. What will be the cost of fencing a rectangular compound if the wire costs Rs. 20 per metre?

Given:

l. Area = 40 m2

2. Length = 2 x Breadth

Options

1. Only 1 required for the solution
2. only 2 required for the solution
3. Either 1 or 2 required for the solution
4. Both 1 and 2 required for the solution

Q.5. Malini, solve the following mathematical expression

(6/4 + 31/6 of 3/7)/(5+7/3), and her answer was 38/77. By how much was her answer wrong?

Options

1. 1
2. 1/77
3. 2
4. 2/77

Q.6. Choose the correct option.

The ratio between the speeds of the 2 trains is 5:3. If the first train runs 350 km in 2 hours, then what is the speed of the second train?

Options

1. 100 kmph
2. 115 kmph
3. 105 kmph
4. 210 kmph

Q.7. The causes of productivity loss are to be written around a circle in the annual report. In how many ways can an analyst write them around the circle, if the number of causes is 5?

Options

1. 5!
2. 5C5
3. 5P5
4. 4!
5. 4C4

Q.8. Choose the correct option.

In how many different ways can the letters of the word 'OPTICAL' be arranged so that the vowels always come together?

Options

1. 120
2. 720
3. 4320
4. 2160

Q.9. Choose the correct option.

A long-distance train is scheduled to reach its destination in 19 hours. After 10 hours of journey, due to the disruption of rail traffic, the train had to be stopped for 1 hour. If the average speed of the train is 100km/hr, at what speed should it travel to cover the distance in the same amount of time?

Options

1. 110
2. 110.5
3. 112.5
4. 113

Q.10. Choose the correct option.

A content manager is working on an Excel sheet. She has 6 columns in the sheet- A, B, C, D, E, and F. She has to check that no two columns should have the same entry. She can check only 2 columns at a time. How many times will she have to repeat the comparison process to complete the process for the whole file?

Options

1. 7
2. 8
3. 15
4. 10

Q. 11. Choose the correct option.

A software engineer creates a LAN game where an 8-digit code made up of 1, 2, 3, 4, 5, 6, 7, 8 has to be decided on, as a universal code. There is a condition that each number has to be used, and no number can be repeated. What is the probability that the first 4 digits of the code are even numbers?

Options

1. 1/70
2. 1 /840
3. 1/8
4. 1/40320

Q.12. Choose the correct option.

In a test called ACSAT, the average marks of 15 test takers are 240. If the marks of 5 test takers are subtracted, the average marks decrease by 40. What is the average mark of 5 test takers?

options

1. 1600
2. 320
3. 200
4. 40

Q.13. Choose the correct option.

If there are 150 babies born every minute, how many babies share the same birth date worldwide?

Options

1. 2, 16,000
2. 2, 18,000
3. 2,25,000
4. 2,18,000

Q.14. Choose the correct option.

Nine days ago, the area covered by the mold on a piece of bread was 3 square inches. Today, the mold covers 9 square inches. What is the rate of change in mold's area?

Options

1. 2 square inches per day
2. 3 square inches per day
3. 2/5 square inches per day
4. 2/3 square inches per day

Q.15. Choose the correct option.

If an integer "k" is divisible by 2, 5, and 13, what is the next largest number that is divisible by all three given numbers?

Options

1. 2k
2. k+13
3. 2k +13
4. 2k + 65

Q.16. Choose the correct option.

What should be the highest value that must be assigned to # so that the number 10114#5 is exactly divisible by 7?

Options

1. 5
2. 6
3. 7
4. 8

**ANSWER KEYS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. A | 2.D | 3. B | 4. D | 5. B |
| 6.C | 7. D | 8. B | 9. C | 10. C |
| 11. A | 12. B | 13. A | 14. D | 15. A |
| 16. B |  |  |  |  |

**Logical Ability**

Q.1. Choose the correct answer.

From the given choices, select the odd one out.

Options

1. DGFE
2. KNML
3. NQPO
4. RSUT

Q.2. Decode the word(s) / pattern given in the question.

If RIGHT is coded as PGEFR, then LEFT is coded as:

Options

1. JCDR
2. JGDR
3. KDER
4. TFEL

Q.3. Choose the correct answer.

Consider the direction codes given below:

A @ B = A is 10 m to the left of B

A # B = A is 15 m to the right of B

A $ B = A is 5 m to the right of B

A % B = A is 20 m to the left of B

What is the position of Z w.r.t W if the direction of Z is given by: Z@X%Y$W?

Options

1. W is 20 m to the left of Z
2. W is 15 m to the left of Z
3. W is 25 m to the right of Z
4. W is 15 m to the right of Z

Q.4. Select the right option from the given alternatives.

A baby crawls 12 feet west and then crawls 3 feet towards south. He then turns towards the east and crawls 8 feet. How far is he from his starting point?

Options

1. 4 feet
2. 8 feet
3. 5 feet
4. 9 feet

Q.5. Determine the relationship between the first two words and then identify the missing word of the second pair such that it is analogous to the first pair.

MYTHS : JVQEP : : WOMEN :

Options

1. TJLBK
2. TLJBK
3. TLBJK
4. TJBLK

Q.6. Choose the correct answer.

While practicing for a race, Rahim runs 2 km West and turns right and runs 1 km. Then he turns to the left and runs 4 km. He sees some construction work on the road. So, he turns left again and runs 2 km. After this, he turns right and runs 1 km, and finally he turns right again and covers a distance of 3 km. Now, towards which direction is Rahim facing?

Options

1. South
2. West
3. North
4. East

Q.7. Choose the correct answer.

Pointing to a man at a wedding reception, Suresh said, "His mother has only one grandchild, whose mother is my sister." How is Suresh related to the man he is talking about?

Options

1. Father-in-law
2. Brother-in-law
3. Brother
4. Cousin

Q.8. The question consists of a problem question followed by two statements, I and II. Find out if the information given in the statement(s) is sufficient in finding the solution to the problem.

Problem question: What fraction of mangoes did Radha get?

Statements:

l) There are five people among whom mangoes have been distributed

II) Everyone has got equal number of mangoes

Options

1. Statement I alone is sufficient in answering the problem question
2. Statement II alone is sufficient in answering the problem question
3. Both statements put together are sufficient in answering the problem question
4. Both statements put together are not sufficient in answering the problem question

Q.9. Decode the word(s) / pattern given in the question.

If LATE is coded as 38, then MAKE is coded as:

Options

1. 30
2. 28
3. 32
4. 22

Q.10. Choose the answer option that arranges the given set of words in the 'most' meaningful order. The words, when put in order should make logical sense according to size, quality, quantity, occurrence of events, value, appearance, nature, process etc.

1. Cotton

2. Plough

3. Mill

4. Seed

5. Cloth

Options

1. 21435
2. 12435
3. 24135
4. 21435

Q.11. Decode the word(s) / pattern given in the question.

If ACE is coded as 226, then EDGE is coded as:

Options

1. 5576
2. 6474
3. 5475
4. 6384

Q.12. Based on the given passage, find out which of the following statements can be inferred from the passage. It is but natural for Muslims, who hold the holy Prophet in the highest esteem, to get anguished, distressed and dismayed at those who deliberately and maliciously produced the infamous movie. However, the reaction goes contrary to the Islamic principles. The love for the Prophet can be better displayed by following his examples and respecting his status of being 'Rahmatul Lil Alamin' (mercy for the worlds), and adhering to his teachings.

Options

1. Islam has been hijacked by certain local extremists who believe in spreading violence and hatred.
2. The infamous movie should be banned for its insensitive and improper footage, violating Islamic principles.
3. It is justified for Muslims to react angrily as the movie does portray the true

essence of Islam.

1. The reaction of the Muslims to the movie is not in accordance with the

Islamic principles and teachings.

**ANSWER KEYS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.D | 2.A | 3. D | 4. C | 5. B |
| 6.C | 7. B | 8. C | 9. A | 10. C |
| 11. D | 12. D |  |  |  |