



Gambitor Question Paper-22-23
METIOX

9th & 10th Q. 1-3 :

Sherlock, Watson, Lestrade, Anderson and Donovan meet for the first time. All of them are of different heights. They then are called to a crime scene. They are then required to cross a street in order of increasing height. The tallest person's position is numbered 1, the next tallest 2, and so on, till the shortest whose position number is 5. These were the conditions that were present in the group:-

- I. The sum of Sherlock's position number and Donovan's position number is equal to the sum of Anderson's position number and Lestrade's position number.
- II. Lestrade is not the shortest.
- III. Lestrade is shorter than Sherlock, and Anderson is shorter than Watson.

1. Who is the tallest?

- a. Watson
- b. Sherlock
- c. Donovan
- d. Either Watson or Sherlock
- e. Cannot be determined

Answer. b

2. If Anderson is shorter than Lestrade, then the sum of the position numbers of which of the following combinations is/are a perfect square?

- a. Watson and Sherlock
- b. Anderson and Donovan
- c. Lestrade and Watson
- d. More than one of the above
- e. None of the above

Answer. d

3. If Anderson is shorter than Lestrade, then which of the following is true?

- a. if made to stand in decreasing order of their heights, no two persons whose names start with consecutive alphabets (as in the alphabetical series) stand adjacent to each other.
- b. The sum of the position numbers of Lestrade and Sherlock is equal to the position number of Watson.
- c. The sum of the position numbers of Anderson and Donovan is a prime number.
- d. Watson is not taller than Lestrade.
- e. None of the above

Answer. b

4.

When the group reached the crime scene, Sherlock discovered a riddle left by the criminal. He is required to solve the riddle to discover the hint to discover the mastermind's identity. The riddle is to arrange the following in a logical order:

1. Euphoria
2. Happiness
3. Ambivalence
4. Ecstasy
5. Pleasure

a. 4,1,3,2,5

b. 3,2,5,1,4

c. 2,1,3,4,5

d. 1,4,2,5,3

Answer. b

9th & 10th Q. 5-6 :

Seeing the answer to the riddle, Lestrade, being the Inspector, orders the police to search for the theft mentioned in the riddle. He finds the table named "Amount Transacted" as the mastermind suffered from Alzheimer's and did not remember the amount he stole after each adventure. The table Lestrade found was as follows:

Amount Transacted (in Million \$) by the mastermind over the given years

Year	Items Stolen			Amount Expended	
	Jewelry	Antiques	Cash	Interest (to Villain's Guild)	Taxes (to Govt.)
2011	288	98	3.00	23.4	83
2012	342	112	2.52	32.5	108
2013	324	101	3.84	41.6	74
2014	336	133	3.68	36.4	88
2015	420	142	3.96	49.4	98

5. What was the average interest per year that the mastermind had to pay the Villain's Guild during this period of stealing?

a. \$32.43 Million

b. \$33.72 Million

c. \$34.18 Million

d. \$36.66 Million

Answer. d

6.

The total amount of cash money stolen by the mastermind during the given period is approximately what percent of the total amount of Jewelry stolen during this period?

- a. 0.1%
- b. 0.5%
- c. 1%
- d. 1.25%

Answer. c

7.

The poor condition of the “Amount Transacted” table made Sherlock realize that the mastermind was an avid reader. Searching the area, he found 5 books K, L, R, P, and T are kept one above the other (not necessarily in the same order). K is just above T and just below R. L is just above P and just below T. The book in the second position from the bottom contains the hint. Which is it?

- a. T
- b. P
- c. K
- d. L

Answer. d

8.

After guessing the correct book in the second position, Watson notices another riddle toward identifying the mastermind. To solve the riddle he has to find the missing number:-

3:26::___:124

- a. 15
- b. 13
- c. 17
- d. 24

Answer. a

9.

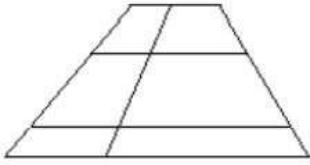
After searching the page corresponding to the missing number in the book, Anderson sees two foot-imprints one of which he identifies as a bird's and the other he identified as?

Claw:Bird: :Hoof:?

- a. lamb
- b. horse
- c. elephant
- d. tiger

Answer. b

10. After analyzing the two imprints, Sherlock joins the darkened points, and he noticed that the following shape was formed:



How many trapeziums can Sherlock find in this shape?

- a. 12
- b. 16
- c. 18
- d. 20

Answer: c

11.

After solving the previous riddle and entering it into a keypad, the team received coordinates for a certain location, upon reaching where they are trapped with no way to escape. Water begins flowing through a tap inside the room just as the television screen lights up with a question.

The water tank is two-fifths full. Pipe A can fill a tank in 12 minutes and pipe B can empty it in 6 minutes. If both pipes are open, how long will it take to empty or fill the tank completely?

- a. 5.6 min
- b. 4.2 min
- c. 2.8 min
- d. 4.8 min

Answer: d

12.

After observing the time left before drowning, Donovan observes a keypad attached to the tap, from which water was flowing out, the note written there reads as follows

3	2	1
5	7	11
16	45	?

“Find the answer or you drown!”

Help Sherlock to save everyone’s lives!

- a. 100
- b. 110
- c. 120
- d. 130

Answer: c

13.

As soon as the water stops flowing, Watson observes something is written on the floor beneath them, they find out it hints towards the next crime location. The riddle is:

If $A \times B$ means A is to the south of B; $A \div B$ means A is to the north of B; $A \% B$ means A is to the east of B; $A - B$ means A is to the west of B, then in $P \% Q + R - S$ is in which direction with respect to Q?

- a. South-West
- b. South-East
- c. North-East
- d. North-West

Answer. b

9th & 10th Q. 14-19 :

Moving in the direction provided by the solution, the group finds itself in a loading dock. Sherlock observes that only by completing the six incomplete sequences he will be able to disable the electric grid powering and electrifying the land in front of them.

14. 27, 30, 37, 50, __, 98

- a. 82
- b. 69
- c. 62
- d. 78

Answer. b

15. 4,6,12,18,30,42,60,72, __

- a. 84
- b. 96
- c. 102
- d. 106

Answer. c

16. 10,30,100,354,1300, _____

- a. 4860
- b. 4870
- c. 4880
- d. 4890

Answer. d

17. 1,4,5,6,7,9,11, _____

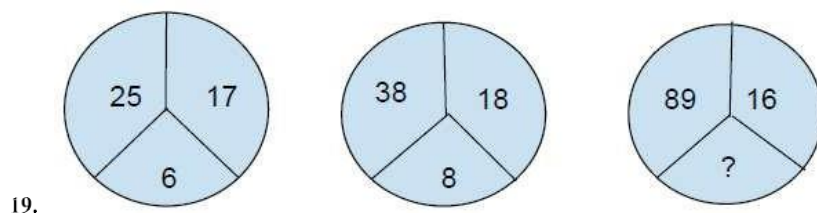
- a. 13
- b. 41
- c. 83
- d. 100

Answer. d

18. 25, 40.2, 55.4, ___, 85.8, 101

- a. 70.6
- b. 72.1
- c. 71.6
- d. 69.6
- e. None of the above

Answer. a



- a. 13
- b. 15
- c. 17
- d. 19

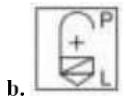
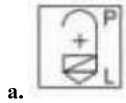
Answer. b

20.

After disabling the electric grid and searching around for some hint, the group finds a shipping container with a question displayed on it. Only by solving the problem will the container open.

“There is a definite relationship between figures P and Q. Establish a similar relationship between figures R & S by selecting a figure from the options that would replace the (?) in figure R.”





Answer. d

21.

Entering the container and moving inside they saw a letter addressed to Sherlock Holmes from the mastermind. In the letter, he had written that if they solve this problem then they'll get another hint to the mastermind's identity.

The following letters are to be coded as follows:

Letter: R D A E J M K T B U I P W H F

Codes: 4 8 5 \$ * 1 2 6 % © 7 @ 3 9 #

While coding the given letters, following conditions are also to be observed.

Conditions:

- (i) if the first letter is a consonant and the last letter is a vowel, then both are to be coded as 'D'.
- (ii) If both the first and the last letters are consonants, then both are to be coded as the code for the last letter.
- (iii) If the first letter is a vowel and the last letter is a consonant, then their codes are to be interchanged.

What will be the code for METUFB?

a. %\$6©#1

b. 1\$6©#1

c. %\$6©#%

d. 1\$6©#%

Answer. c

22.

After solving the above problem, Sherlock realizes that out of the below-mentioned jumbled names, one person cannot be the mastermind. Find who it is?

a. Smjea

b. Rnice

c. Uusre

d. Amnro

Answer. c

9th & 10th 23-28 :

While Sherlock finds the innocent person from the above problem, the group gets information that the mastermind has committed another murder of someone named Mycroft. The group reaches the crime scene in haste and begins the investigation. As part of the investigation, Lestrade asks about the family members of Mycroft. He was informed that there are 6 family members in Mycroft's family, namely Barry, Sholto, Goodman, Louise, James and Eurus among which they are Lawyer, Doctor, Teacher, Salesman, Engineer and Accountant. These are two married couples in the family. 'Goodman' is a salesman and is married to a Teacher. Doctor is married to the lawyer. James, who is an Accountant, is the son of Barry. Louise, who is a lawyer, is the daughter in law of Sholto. Eurus is an unmarried Engineer and Sholto is the Grandfather of James.

23. What is the profession of Barry?

- a.** Accountant
- b.** Doctor
- c.** Lawyer
- d.** Teacher

Answer. b

24. What is the profession of Sholto?

- a.** Teacher
- b.** Doctor
- c.** Lawyer
- d.** Engineer

Answer. a

25. What is the relation of Barry with Goodman?

- a.** Son
- b.** Grandfather
- c.** Brother
- d.** Father

Answer. a

26. What is the relation of Goodman with James?

- a.** Husband
- b.** Brother
- c.** Father
- d.** Grandfather

Answer. d

27. Which one is a married couple among the following?

- a. Louise and Goodman
- b. Sholto and Barry
- c. James and Sholto
- d. Barry and Louis

Answer. d

28. Husband of the teacher is?

- a. Barry
- b. Sholto
- c. Goodman
- d. Louise

Answer. c

29.

After investigating, Sherlock runs his mind horses and arrives at the conclusion that the criminal is out of the 4 persons mentioned below, but as always he has to solve one more riddle to get to the criminal, the riddle goes on as:

Some words are coded as below:

haplesh means cloudburst

srenchoch means pinball

resbosrench means ninepin

Which word could mean "cloud nine"?

The names mentioned corresponding to the options point towards the criminal!

- a. Leshsrench- James Moriarty
- b. Ochhapl- Sherrinford Holmes
- c. Haploch- Water White
- d. Haplesbo- Eurys Holmes

Answer. d

30.

After solving several hard problems and riddles, Sherlock felt that the final problem was a bit anticlimactic. So, to find the reason he asks the mastermind as to why they were caught? The mastermind embarrassingly answered that they ran out of funds and had to take out a loan at a high interest rate and thus they drowned in debts. Seeing the look on Sherlock's face, the mastermind tells him "I have a final question for you" to find out much they had borrowed.

"As I had taken the loan in 2016 from the New York bank at 70% p.a. rate of simple interest, I have to repay \$720 Million in the year 2018. What was the principal amount I had borrowed from the bank?"

- a. \$300 Million
- b. \$100 Million
- c. \$250 Million
- d. \$400 Million

Answer. a

