



CAT Solved Question Paper with Answer Key Data Interpretation and Logical Reasoning Section

- These questions are based on previous year CAT papers
- Correct answers are given at the bottom of the question paper
- Total Time limit to solve the questions is 40 minutes
- You may not find the answer options for TITA (Non-MCQ) type questions.

Problem Set-1 followed by Questions 1 to 6

Four institutes, A, B, C, and D, had contracts with four vendors W, X, Y, and Z during the ten calendar years from 2010 to 2019. The contracts were either multi-year contracts running for several consecutive years or single-year contracts. No institute had more than one contract with the same vendor. However, in a calendar year, an institute may have had contracts with multiple vendors, and a vendor may have had contracts with multiple institutes. It is known that over the decade, the institutes each got into two contracts with two of these vendors, and each vendor got into two contracts with two of these institutes.

The following facts are also known about these contracts.

- Vendor Z had at least one contract in every year.
- Vendor X had one or more contracts in every year up to 2015, but no contract in any year after that.
- Vendor Y had contracts in 2010 and 2019. Vendor W had contracts only in 2012.
- There were five contracts in 2012.
- There were exactly four multi-year contracts. Institute B had a 7-year contract, D had a 4-year contract, and A and C had one 3-year contract each. The other four contracts were single-year contracts.
- Institute C had one or more contracts in 2012 but did not have any contract in 2011.
- Institutes B and D each had exactly one contract in 2012. Institute D did not have any contract in 2010

Q.1 In which of the following years were there two or more contracts?

1. 2018
2. 2015
3. 2017
4. 2016

Q.2 Which of the following is true?

1. D had a contract with Y in 2019
2. B had a contract with Z in 2017
3. B had a contract with Y in 2019
4. D had a contract with X in 2011

Q.3 In how many years during this period was there only one contract?

1. 3
2. 2
3. 4
4. 5



Q.4 What BEST can be concluded about the number of contracts in 2010?

1. exactly 4
2. at least 3
3. at least 4
4. exactly 3

Q.5 Which institutes had multiple contracts during the same year?

1. A and B only
2. B and C only
3. A only
4. B only

Q.6 Which institutes and vendors had more than one contracts in any year?

1. A, B, W, and X
2. B, W, X, and Z
3. B, D, W, and X
4. A, D, W, and Z

Problem Set-2 followed by Questions 7 to 10

1000 patients currently suffering from a disease were selected to study the effectiveness of treatment of four types of medicines — A, B, C and D. These patients were first randomly assigned into two groups of equal size, called treatment group and control group. The patients in the control group were not treated with any of these medicines; instead they were given a dummy medicine, called placebo, containing only sugar and starch.

The following information is also known about the patients in the treatment group.

- a. A total of 250 patients were treated with type A medicine and a total of 210 patients were treated with type C medicine.
- b. 25 patients were treated with type A medicine only. 20 patients were treated with type C medicine only. 10 patients were treated with type D medicine only.
- c. 35 patients were treated with type A and type D medicines only. 20 patients were treated with type A and type B medicines only. 30 patients were treated with type A and type C medicines only. 20 patients were treated with type C and type D medicines only.
- d. 100 patients were treated with exactly three types of medicines.
- e. 40 patients were treated with medicines of types A, B and C, but not with medicines of type D. 20 patients were treated with medicines of types A, C and D, but not with medicines of type B.
- f. 50 patients were given all the four types of medicines. 75 patients were treated with exactly one type of medicine.

Q.7 How many patients were treated with medicine type B?

(Type your answer in the given space on screen)

Q.8 The number of patients who were treated with medicine types B, C and D, but not type A was:

(Type your answer in the given space on screen)



Q.9 How many patients were treated with medicine types B and D only?
(Type your answer in the given space on screen)

Q.10 The number of patients who were treated with medicine type D was:
(Type your answer in the given space on screen)

Problem Set-3: Followed by Questions 11 to 16

In a certain board examination, students were to appear for examination in five subjects: English, Hindi, Mathematics, Science and Social Science. Due to a certain emergency situation, a few of the examinations could not be conducted for some students. Hence, some students missed one examination and some others missed two examinations. Nobody missed more than two examinations.

The board adopted the following policy for awarding marks to students. If a student appeared in all five examinations, then the marks awarded in each of the examinations were on the basis of the scores obtained by them in those examinations.

If a student missed only one examination, then the marks awarded in that examination was the average of the best three among the four scores in the examinations they appeared for.

If a student missed two examinations, then the marks awarded in each of these examinations was the average of the best two among the three scores in the examinations they appeared for.

The marks obtained by six students in the examination are given in the table below. Each of them missed either one or two examinations.

	English	Hindi	Mathematics	Science	Social Science
Alva	80	75	70	75	60
Bithi	90	80	55	85	85
Carl	75	80	90	100	90
Deep	70	90	100	90	80
Esha	80	85	95	60	55
Foni	83	72	78	88	83

The following facts are also known.

- I. Four of these students appeared in each of the English, Hindi, Science, and Social Science examinations.
- II. The student who missed the Mathematics examination did not miss any other examination.
- III. One of the students who missed the Hindi examination did not miss any other examination. The other student who missed the Hindi examination also missed the Science examination.

Q.11 Who among the following did not appear for the Mathematics examination?

1. Foni
2. Carl
3. Esha



4. Alva

Q.12 Which students did not appear for the English examination?

1. Carl and Deep
2. Cannot be determined
3. Esha and Foni
4. Alva and Bithi

Q.13 What BEST can be concluded about the students who did not appear for the Hindi examination?

1. Alva and Deep
2. Alva and Esha
3. Two among Alva, Deep and Esha
4. Deep and Esha

Q.14 What BEST can be concluded about the students who missed the Science examination?

1. Deep and Bithi
2. Alva and Deep
3. Bithi and one out of Alva and Deep
4. Alva and Bithi

Q.15 How many out of these six students missed exactly one examination?

(Type your answer in the given space on screen)

Q.16 For how many students can we be definite about which examinations they missed?

(Type your answer in the given space on screen)

Problem Set-4 followed by Questions 17 to 20

The local office of the APP-CAB company evaluates the performance of five cab drivers, Arun, Barun, Chandan, Damodaran, and Eman for their monthly payment based on ratings in five different parameters (P1 to P5) as given below:

P1: Timely arrival

P2: Behaviour

P3: Comfortable ride

P4: Driver's familiarity with the route

P5: Value for money

Based on feedback from the customers, the office assigns a rating from 1 to 5 in each of these parameters. Each rating is an integer from a low value of 1 to a high value of 5. The final rating of a driver is the average of his ratings in these five parameters. The monthly payment of the drivers has two parts – a fixed payment and final rating-based bonus. If a driver gets a rating of 1 in any of the parameters, he is not eligible to get bonus. To be eligible for bonus a driver also needs to get a rating of five in at least one of the parameters.

The partial information related to the ratings of the drivers in different parameters and the monthly payment structure (in rupees) is given in the table below:

	P1	P2	P3	P4	P5	Fixed payment	Bonus
Arun				4		Rs.1000	Rs.250 × Final Rating
Barun	3					Rs.1200	Rs.200 × Final Rating
Chandan			2			Rs.1400	Rs.100 × Final Rating
Damodaran		3				Rs.1300	Rs.150 × Final Rating
Eman					2	Rs.1100	Rs.200 × Final Rating

The following additional facts are known.

1. Arun and Barun have got a rating of 5 in exactly one of the parameters. Chandan has got a rating of 5 in exactly two parameters.
2. None of drivers has got the same rating in three parameters.

Q.17 If Damodaran does not get a bonus, what is the maximum possible value of his final rating?

1. 3.4
2. 3.6
3. 3.8
4. 3.2

Q.18 If Eman gets a bonus, what is the minimum possible value of his final rating?

1. 2.8
2. 3.0
3. 3.4
4. 3.2

Q.19 If all five drivers get bonus, what is the minimum possible value of the monthly payment (in rupees) that a driver gets?

1. 1600
2. 1740
3. 1700
4. 1750

Q.20 If all five drivers get bonus, what is the maximum possible value of the monthly payment (in rupees) that a driver gets?

1. 1900
2. 1950
3. 2050
4. 1960

Problem Set 5: Followed by Questions 21 to 24

Ten musicians (A, B, C, D, E, F, G, H, I and J) are experts in at least one of the following three percussion instruments: tabla, mridangam, and ghatam. Among them, three are experts in tabla but not in mridangam or ghatam, another three are experts in mridangam but not in tabla or ghatam, and one is an expert in ghatam but



not in tabla or mridangam. Further, two are experts in tabla and mridangam but not in ghatam, and one is an expert in tabla and ghatam but not in mridangam.

The following facts are known about these ten musicians.

Both A and B are experts in mridangam, but only one of them is also an expert in tabla.

D is an expert in both tabla and ghatam.

Both F and G are experts in tabla, but only one of them is also an expert in mridangam.

Neither I nor J is an expert in tabla.

Neither H nor I is an expert in mridangam, but only one of them is an expert in ghatam.

Q.21 Who among the following is DEFINITELY an expert in tabla but not in either mridangam or ghatam?

1. F
2. C
3. A
4. H

Q.22 Who among the following is DEFINITELY an expert in mridangam but not in either tabla or ghatam?

1. G
2. E
3. J
4. B

Q.23 Which of the following pairs CANNOT have any musician who is an expert in both tabla and mridangam but not in ghatam?

1. A and B
2. C and F
3. F and G
4. C and E

Q.24 If C is an expert in mridangam and F is not, then which are the three musicians who are experts in tabla but not in either mridangam or ghatam?

1. E, F and H
2. C, E and G
3. E, G and H
4. C, G and H

Correct Answers

Qs	Ans	Qs	Ans	Qs	Ans	Qs	Ans
1	2	7	340 (TITA)	13	1	19	3
2	1	8	10 (TITA)	14	3	20	4
3	1	9	150 (TITA)	15	3 (TITA)	21	4
4	4	10	325 (TITA)	16	4 (TITA)	22	3
5	1	11	2	17	2	23	4



6	1	12	3	18	2	24	1
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