

MAT Official AIMA Question Paper: 25 Sample Questions

Test details

Number of questions	25 (5 per section)
Suggested time	20 minutes (MAT pace: 150 questions in 120 minutes)
Marking	+1 for a correct answer; -0.25 for a wrong answer; 0 for a question not attempted
Sectional time limit	None: attempt the sections in any order
Answer format	One correct option out of four for every question

Section-wise breakdown

Section	Questions	Question types
Language Comprehension	Q1 to Q5	Reading passage (2 questions); error spotting; one-word substitution; fill in the blanks
Intelligence and Critical Reasoning	Q6 to Q10	Team selection with conditions; statement and conclusions; assertion and reason; blood relations (2)
Mathematical Skills	Q11 to Q15	Time and work; simple interest (2); two-digit numbers; percentage error in area
Data Analysis and Sufficiency	Q16 to Q20	Pie-chart data (2); caselet; data sufficiency; quantity comparison
Economic and Business Environment	Q21 to Q25	Per capita income; UPI link; developed economies; income tax slab; Minimum Support Price

Part A: Question Paper

Section I: Language Comprehension (Q1 to Q5)

Directions (Questions 1 and 2): Read the passage and answer the questions that follow.

Until a hundred years ago as humans we had a simple, uncomplicated biological connect. It was a straightforward equation: we drew roughly 3,000 calories each of energy out of the Earth for our food and life's sustenance. Today that number per capita has grown to 1,00,000 calories. We still need only 3,000 calories each to nourish life itself. All the rest of this energy is what we extract from the Earth for everything else besides keeping ourselves alive. In some countries, like the US, this per capita number runs at over 2,00,000 calories. Some of us are concerned about this. We fret over what we could — and should — really be doing to soften this abuse of resources. Little things fox us in the welter of things that we get to read. What is sustainable development? How can it be started at our homes? Beyond the

ceremonial planting of green and getting people to run marathons of various lengths in support of the environment, is there more that we can add to the abstract value of 'sustainability'? What are the little things we can do in our day-to-day lives, to reduce demand for things that people make and market? Of course, we know that it helps to avoid a plastic bag when you can use a newspaper bag, or a brown bag, or even a jute bag which you can use for many more years unlike a plastic bag which you throw away in less than a week or after a few uses. However, there's actually quite a bit more that you and I can do, without compromise on comfort, with very little as cost incurred, with financial savings that you can gain on energy and water use, and with solutions that are very feasible and within your reach. It is possible to understand our ecological footprint and its disastrous consequences, not merely in terms of our own behaviour as consumers, but really in terms of the impact on the environment we make.

Q1. What is the primary concern of the passage?

- (1) Use of plastic bags should be completely banned.
- (2) There is a need to save energy, especially for our future.
- (3) All of us should not only plant trees but also run the marathon.
- (4) We need to respect the Earth and consume less of its calories.

Q2. Which one of the following statements cannot be inferred from the passage?

- (1) We do not depend on the Earth for our food and life sustenance.
- (2) There are many little things we can do to save our Earth.
- (3) Only running marathons of various lengths does not help.
- (4) A lot many years before, our association with the Nature was quite simple.

Directions: Choose the sentence part containing a grammatical error.

Q3. In this question, a sentence has been broken into four parts. Choose the part that has an error.

- (1) The hardy colonist and the trained European who fought at his side,
- (2) frequently expended months in struggling against the rapid of the streams,
- (3) or in effecting the rugged passes of the mountains,
- (4) in quest of an opportunity to exhibit their courage in a more martial conflict.

Directions: Choose the option which can be substituted for the given words.

Q4. To form a plot or scheme, especially one to do something wrong or wicked, or designed to cause harm:

- (1) Machete
- (2) Machinate
- (3) Conspire
- (4) Fatal

Directions: Choose the option to fill in the blanks.

Q5. We _____ to inform you that we cannot include your thesis in our library, on the _____ of not receiving permission from your supervisor.

- (1) repent, justification
- (2) saddened, reason
- (3) lament, pretext
- (4) regret, grounds

Section II: Intelligence and Critical Reasoning (Q6 to Q10)

Directions (Question 6): Study the information carefully and answer the question.

From among the five doctors 1, 2, 3, 4 and 5, four engineers G, H, K, L and six teachers M, N, O, P, Q and R, some teams are to be selected. Of these 1, 2, G, H, O, P, Q are females and the rest are males. The formation of teams is subject to the following conditions:

- Wherever there is a male doctor, there will not be a female teacher.
- Wherever there is a male engineer, there will not be a female doctor.
- There shall not be more than two male teachers in any team.

Q6. If the team consists of two doctors, two female teachers and two engineers, then all the following teams are possible except:

- (1) 1, 2, K, L, P, Q
- (2) 1, 2, G, H, P, Q
- (3) 1, 2, G, H, O, Q
- (4) O, P, G, H, 1, 2

Directions: Decide which of the conclusions follows from the statement.

Q7. Statement: The doctor is of the opinion that the patient's condition would become normal after this operation.

Conclusions:

- I. The patient's condition is such that he can be operated upon.
- II. Certain costly medicines can be administered to the patient and the operation may not be necessary.

- (1) If conclusion I follows
- (2) If conclusion II follows
- (3) If neither conclusion I follows nor II follows
- (4) If both conclusions I and II follow

Directions: Choose the correct alternative for Assertion (A) and Reason (R).

Q8. Assertion (A): Harmonious industrial relations are necessary for faster economic development of a country.

Reason (R): Good relations keep the wheels of production rolling.

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

Q9. Varun is the brother of Meghna and Nikhil. Prerna is the mother of Nikhil. Raghu is the father of Varun. Which of the given statements cannot be said to be definitely true?

- (1) Varun is the son of Prerna.
- (2) Raghu is the husband of Prerna.
- (3) Raghu is the brother of Meghna.
- (4) Prerna is the mother of Varun.

Q10. Pointing to Abhishek, Seema said, "His father is the only son of my grandfather." How is Seema related to Abhishek?

- (1) Niece
- (2) Mother
- (3) Sister
- (4) Daughter

Section III: Mathematical Skills (Q11 to Q15)

Q11. Three taps A, B and C can fill a tank in 12, 15 and 20 hours respectively. If tap A is open all the time and tap B and tap C are open for one hour each alternately, the tank will be filled in:

- (1) 7 hours.
- (2) 6 hours.
- (3) 5 hours.
- (4) None of these

Q12. A sum was put at simple interest at a certain rate for 3 years. Had it been put at 1% higher rate, it would have fetched ₹5,100 more. The sum is:

- (1) ₹1,50,000
- (2) ₹1,70,000
- (3) ₹1,25,000
- (4) ₹1,20,000

Q13. Two times a two-digit number is 9 times the number obtained by reversing the digits and sum of the digits is 9. The number is:

- (1) 54
- (2) 72
- (3) 63
- (4) 81

Q14. In measuring the sides of a rectangular plot, one side is taken 5% in excess and the other 6% in deficit. The error percent in area calculated, of the plot, is:

- (1) 1.3%
- (2) 1%
- (3) 1.5%
- (4) 3%

Q15. Shiva invested a certain sum of money in a simple interest bond whose value grew to ₹300 at the end of 3 years and to ₹400 at the end of another 5 years. What was the rate of interest at which he invested his sum?

- (1) 12.5%
- (2) 12%
- (3) 6.67%
- (4) 8.33%

Section IV: Data Analysis and Sufficiency (Q16 to Q20)

Directions (Questions 16 and 17): Study the data and answer the questions.

There are seven different types of tyres (A, B, C, D, E, F, G) manufactured by a factory. The pie charts show the percentage of sales of the tyres in a city in two consecutive months, April and May. The data is shown below as a table.

Type B sales: 1,560 tyres in April (13% of April sales) and 2,250 tyres in May (15% of May sales).

Tyre type	A	B	C	D	E	F	G
April share (%)	3	13	22	25	17	8	12
May share (%)	5	15	25	20	10	13	12

Q16. What is the maximum difference between the numbers of tyres of any two types sold taken together for April and that of other two types sold for May?

- (1) 3390
- (2) 5430
- (3) 4523
- (4) 4230

Q17. What is the difference in total sales between April and May in respect of only those types where there was an increase in sale?

- (1) 6520
- (2) 3540
- (3) 4530
- (4) None of these

Directions (Question 18): Study the information carefully and answer the question.

Ram sold 10 acres of land to Mani and Dinesh who paid him the total amount in the ratio of 2 : 3. Mani invested a further ₹3 lakh in the land for the purpose of planting coconut and lemon trees in the ratio of 4 : 1. These trees were planted on equal areas of land. There were a total of 200 lemon trees. The sale price of one coconut was ₹10 in 2019. The crop took 7 years to mature and when the crop was reaped in 2019, the total revenue generated was 50% of the total initial amount put in by Mani and Dinesh together. The revenue generated from the coconut and lemon trees was in the ratio of 5 : 4 and it was shared equally by Mani and Dinesh as the initial amount spent by them was equal.

Q18. How many coconuts were reaped?

- (1) 24000
- (2) 50000
- (3) 25000
- (4) 19000

Directions: Each question is followed by two statements. Decide whether the data in the statements are sufficient to answer the question.

Q19. Mr. Rahim invested his saving in term deposit of three different limited companies. If the average size of 3 term deposits is ₹3 crore, is the smallest deposit less than ₹2.5 crore?

Statement I: The highest term deposit is ₹3.9 crore.

Statement II: There are two more term deposits other than the highest term deposit. One of the two term deposits is ₹2.1 crore.

- (1) If the data in statement I alone are sufficient to answer the question.
- (2) If the data in statement II alone are sufficient to answer the question.
- (3) If the data in both statements I and II are required to answer the question.
- (4) If the data in both statements I and II together are not sufficient to answer the question.

Directions: Compare Quantity A and Quantity B.

Q20. Quantity A: Net change when wages of workers were increased by 20% and then reduced by 10%.

Quantity B: Net change when wages of workers were reduced by 10% and then increased by 20%.

- (1) If quantity A is greater.
- (2) If quantity B is greater.
- (3) If the two quantities A and B are equal.
- (4) If comparison cannot be made from the given information.

Section V: Economic and Business Environment (Q21 to Q25)

Q21. According to recent report of World Bank, India's per capita income is around:

- (1) \$ 2,400
- (2) \$ 3,100
- (3) \$ 3,750
- (4) \$ 4,350

Q22. India has recently signed a MoU for linking of India's UPI with Instant Payment Platform of which of the following nation?

- (1) Mauritius
- (2) Vietnam
- (3) UAE
- (4) Brazil

Q23. According to International Monetary Fund Report 2023-24, which of the following countries can be categorized as developed countries?

- (1) Australia
- (2) Singapore
- (3) Taiwan
- (4) All of these

Q24. Which of the following income slabs attracts 5% income tax under the new income tax regime as per Union Budget 2025-26?

- (1) ₹3,00,000 – ₹6,00,000
- (2) ₹3,00,000 – ₹7,00,000
- (3) ₹4,00,000 – ₹8,00,000
- (4) ₹5,00,000 – ₹10,00,000

Q25. In economics, Minimum Support Price (MSP) is the:

- (1) minimum wage offered to the workers in the organized sector.
- (2) price at which the government buys agricultural output from the farmers.
- (3) minimum price the producers demand to sell their goods.
- (4) None of these

Part B: Answer Key

Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
Q1	(2)	Q6	(1)	Q11	(1)	Q16	(2)	Q21	(1)
Q2	(1)	Q7	(1)	Q12	(2)	Q17	(2)	Q22	(3)
Q3	(2)	Q8	(1)	Q13	(4)	Q18	(2)	Q23	(4)
Q4	(2)	Q9	(3)	Q14	(1)	Q19	(2)	Q24	(3)
Q5	(4)	Q10	(3)	Q15	(4)	Q20	(3)	Q25	(2)

Columns from left: Language Comprehension, Intelligence and Critical Reasoning, Mathematical Skills, Data Analysis and Sufficiency, Economic and Business Environment.

Score yourself: net marks = correct answers – (wrong answers ÷ 4). Accuracy = correct answers ÷ questions attempted. Aim for 80% accuracy or more.

Part C: Detailed Answers and Step-by-Step Solutions

Section I: Language Comprehension

Q1. Correct answer: (2) There is a need to save energy, especially for our future.

The passage's central worry is the huge rise in the energy we draw from the Earth (from about 3,000 to 1,00,000 calories per person) and what we can do to reduce it. Option (2), the need to save energy, states this concern most directly.

Options (1) and (3) pick up small details (plastic bags, marathons), and option (4) goes beyond the passage's focus on energy use.

Q2. Correct answer: (1) We do not depend on the Earth for our food and life sustenance.

The passage opens by saying we draw about 3,000 calories of energy out of the Earth for our food and sustenance. Statement (1) contradicts this, so it cannot be inferred. Statements (2), (3) and (4) are all supported by the passage.

Q3. Correct answer: (2) frequently expended months in struggling against the rapid of the streams,

"Rapid" should be "rapids", the plural noun for the fast-flowing, rough stretches of a river: "struggling against the rapids of the streams".

Q4. Correct answer: (2) Machinate

To machinate is to plot or scheme, especially with harmful intent. Conspire is close in meaning, but it means to plan secretly together with others, so machinate is the more precise single word. A machete is a large knife, and fatal means causing death.

Q5. Correct answer: (4) regret, grounds

"We regret to inform you" is the standard phrase in formal letters, and "on the grounds of" means "for the reason of". "Repent" and "lament" do not suit a formal notice, "saddened" would need "are" before it, and a pretext is a false reason.

Section II: Intelligence and Critical Reasoning

Q6. Correct answer: (1) 1, 2, K, L, P, Q

In option (1), K and L are male engineers, and doctors 1 and 2 are female. The second condition says that wherever there is a male engineer, there will not be a female doctor, so this team is not possible.

Options (2), (3) and (4) have female doctors, female engineers (G and H) and female teachers, which break none of the conditions.

Q7. Correct answer: (1) If conclusion I follows

The doctor expects the patient to recover after the operation, which assumes the patient is fit to be operated upon, so conclusion I follows. Conclusion II brings in costly medicines that the statement never mentions, so it does not follow.

Q8. Correct answer: (1) Both (A) and (R) are true and (R) is the correct explanation of (A).

Both statements are true. Harmonious industrial relations avoid strikes and lockouts, which keeps production running, and steady production supports faster economic development. So (R) correctly explains (A).

Q9. Correct answer: (3) Raghu is the brother of Meghna.

Raghu is Varun's father, and Varun, Meghna and Nikhil are siblings, so Raghu is Meghna's father, not her brother. Statement (3) cannot be true.

Statements (1), (2) and (4) follow on the usual assumption that the three siblings share the same parents.

Q10. Correct answer: (3) Sister

The only son of Seema's grandfather is Seema's father. So Abhishek's father is also Seema's father, which makes them siblings: Seema is Abhishek's sister.

Section III: Mathematical Skills

Q11. Correct answer: (1) 7 hours.

Take the tank capacity as 60 units, the LCM of 12, 15 and 20. Tap A fills 5 units an hour, tap B 4 units and tap C 3 units.

Hour 1 (A + B) = 9 units; hour 2 (A + C) = 8 units. Every two hours, 17 units are filled.

After 6 hours: $17 \times 3 = 51$ units, leaving $60 - 51 = 9$ units.

In hour 7, taps A and B fill exactly 9 units. Total time = 7 hours.

Q12. Correct answer: (2) ₹1,70,000

Let the sum be P. A rate 1% higher for 3 years earns extra interest of 3% of P.

3% of P = ₹5,100, so $P = 5,100 \times 100 \div 3 = ₹1,70,000$.

Q13. Correct answer: (4) 81

Let the number be $10x + y$, with $x + y = 9$.

$2(10x + y) = 9(10y + x)$ gives $20x + 2y = 90y + 9x$, so $11x = 88y$, or $x = 8y$.

Then $8y + y = 9$ gives $y = 1$ and $x = 8$. The number is 81.

Check: $2 \times 81 = 162$ and $9 \times 18 = 162$.

Q14. Correct answer: (1) 1.3%

Measured area = $1.05 L \times 0.94 B = 0.987 LB$, where L and B are the true sides.

The calculated area is 1.3% less than the true area, so the error is 1.3%.

Shortcut: $+5 - 6 + (5 \times -6) \div 100 = -1.3\%$.

Q15. Correct answer: (4) 8.33%

Interest for the 5 years between year 3 and year 8 = ₹400 - ₹300 = ₹100, so interest per year = ₹20.

Interest for the first 3 years = $3 \times ₹20 = ₹60$, so the principal = ₹300 - ₹60 = ₹240.

Rate = $20 \div 240 \times 100 = 8.33\%$.

Section IV: Data Analysis and Sufficiency

Q16. Correct answer: (2) 5430

Total sales: April = $1,560 \div 0.13 = 12,000$ tyres; May = $2,250 \div 0.15 = 15,000$ tyres.

For the largest difference, take the two best-selling types in May: C (25% of 15,000 = 3,750) and D (20% = 3,000), a total of 6,750.

Then take the two lowest-selling other types in April: A (3% of 12,000 = 360) and F (8% = 960), a total of 1,320.

Maximum difference = $6,750 - 1,320 = 5,430$.

Q17. Correct answer: (2) 3540

Sales by type (April $\rightarrow$ May): A 360 $\rightarrow$ 750 (+390); B 1,560 $\rightarrow$ 2,250 (+690); C 2,640 $\rightarrow$ 3,750 (+1,110); D 3,000 $\rightarrow$ 3,000 (no change); E 2,040 $\rightarrow$ 1,500 (fall); F 960 $\rightarrow$ 1,950 (+990); G 1,440 $\rightarrow$ 1,800 (+360).

Only A, B, C, F and G increased. Total increase = $390 + 690 + 1,110 + 990 + 360 = 3,540$.

Q18. Correct answer: (2) 50000

Let Mani and Dinesh pay Ram $2x$ and $3x$. Mani also spends ₹3 lakh on planting, so his total is $2x + ₹3$ lakh.

Their total spending was equal: $2x + 3 = 3x$, so $x = ₹3$ lakh. Mani spent ₹6 lakh + ₹3 lakh = ₹9 lakh, and Dinesh ₹9 lakh: ₹18 lakh in all.

Revenue = 50% of ₹18 lakh = ₹9 lakh. Coconut and lemon revenue are in the ratio 5 : 4, so coconut revenue = $5/9 \times ₹9$ lakh = ₹5 lakh.

At ₹10 per coconut: $₹5,00,000 \div 10 = 50,000$ coconuts. (The number of trees is not needed for this question.)

Q19. Correct answer: (2) If the data in statement II alone are sufficient to answer the question.

The three deposits total $3 \times ₹3$ crore = ₹9 crore. The question asks only whether the smallest deposit is less than ₹2.5 crore (a yes or no question).

Statement I alone: the other two deposits total ₹5.1 crore. They could be ₹2.55 crore each (answer: no) or ₹2.1 crore and ₹3.0 crore (answer: yes). Not sufficient.

Statement II alone: one of the deposits is ₹2.1 crore, so the smallest deposit can be at most ₹2.1 crore, which is less than ₹2.5 crore. The answer is a definite yes. Sufficient.

So statement II alone is sufficient: option (2).

Note: some answer keys show option (3). Both statements would be needed only to find the exact value of the smallest deposit (₹2.1 crore), which the question does not ask.

Q20. Correct answer: (3) If the two quantities A and B are equal.

Take the wage as 100. Quantity A: $100 \rightarrow 120 \rightarrow 108$, a net rise of 8%. Quantity B: $100 \rightarrow 90 \rightarrow 108$, also a net rise of 8%.

Successive percentage changes multiply ($1.2 \times 0.9 = 0.9 \times 1.2$), so their order does not matter. The quantities are equal.

Section V: Economic and Business Environment

Q21. Correct answer: (1) \$ 2,400

AIMA's answer is about \$2,400, India's per capita gross national income as reported by the World Bank, which places India among lower-middle-income countries.

The World Bank revises these figures every year, so the latest number may be a little different; among the options given, about \$2,400 is the closest.

Q22. Correct answer: (3) UAE

India signed a Memorandum of Understanding (MoU) to link its Unified Payments Interface (UPI) with the Instant Payment Platform (IPP) of the United Arab Emirates, so that payments can move between the two systems.

Q23. Correct answer: (4) All of these

In the IMF's World Economic Outlook classification, Australia, Singapore and Taiwan Province of China are all advanced economies, so all three count as developed countries.

Q24. Correct answer: (3) ₹4,00,000 – ₹8,00,000

Under the new income tax regime as revised in Union Budget 2025-26, income up to ₹4 lakh is not taxed, and income from ₹4 lakh to ₹8 lakh is taxed at 5%.

Option (1) was the 5% slab under Budget 2023-24, and option (2) under Budget 2024-25. Tax slabs can change with every Union Budget, so check the latest Budget before your exam.

Q25. Correct answer: (2) price at which the government buys agricultural output from the farmers.

Minimum Support Price is the price at which the Government of India buys crops from farmers. It is announced in advance to protect farmers against a sharp fall in market prices.