



# TEST STRUCTURE AND SAMPLE QUESTIONS

MAT is an objective type test designed and developed to ascertain the aptitude of the candidates to undergo Post Graduate Programme in Management. Aptitude is the potential of an individual to perform subsequent to proper training. Therefore MAT is designed to identify the potential. It is tested and perfected over a decade.

The MAT has five sections, each section having forty questions. The total 200 questions are to be attempted over 150 minutes. The test structure is given below:

| Section No. | Section Name                      | No of Questions | Time Suggested (Minutes) |
|-------------|-----------------------------------|-----------------|--------------------------|
| I           | Language Comprehension            | 40              | 30                       |
| II          | Mathematical Skills               | 40              | 40                       |
| III         | Data Analysis & Sufficiency       | 40              | 35                       |
| IV          | Intelligence & Critical Reasoning | 40              | 30                       |
| V           | Indian & Global Environment       | 40              | 15                       |
| Total       |                                   | 200             | 150                      |

## SAMPLE QUESTIONS

A few sample questions are given below for the guidance of the candidates in the preparation. These samples do not necessarily indicate either the types or the difficulty levels of questions that can be in the actual test. In general the preparation standard expected is that of a graduate from an Indian University having completed 10 + 2 + 3 pattern of education. However, the knowledge level required for attempting the section on Mathematical Skills is that of 10<sup>th</sup> standard under Central Board of Secondary Education.

## SECTION I LANGUAGE COMPREHENSION

**Directions :** Read the passage carefully to answer the questions that follow.

Procrastination is a costly and draining problem for all of us. The easiest way to deal with procrastination is to never let it get started in the first place. Procrastination plagues us all. More plans go astray, more dreams go unfulfilled, and more time is wasted. It is a major stumbling block for almost everyone seeking to improve his use of time. For many, this becomes an insidious habit that can ruin their careers, destroy their happiness, and even shorten their lives.

Procrastination is respectful of no one. All of us suffer from it at one time or another. Procrastination is doing low priority actions or tasks rather than higher priority ones. It is straightening your desk when you should be working on the report; watching TV when you should be exercising; calling on the friendly customer who buys very little when you should be preparing a sales presentation for that tough prospect who could buy much more; avoiding a co-worker rather than telling him the bad news; staying away from office to avoid disciplining a subordinate; and postponing activities with your children, because there always seems to be something "more urgent", until suddenly they're grown and you realize it's too late to do any of the things you've always talked about doing together.

- Which of the following best describes 'procrastination'?
 

|               |          |
|---------------|----------|
| (1) linger on | (2) stop |
| (3) delay     | (4) wait |

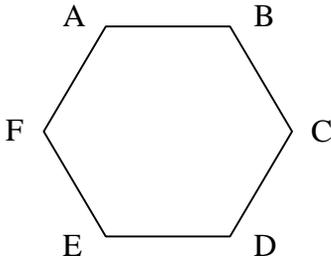




12. If  $x^2 - y^2 = 15$  and  $x + y = 3$ , then  $x - y$  is

- (1) -3
- (2) 0
- (3) 3
- (4) 5

13. The hexagon ABCDEF is regular. That means all its sides are the same length and all its interior angles are the same size. Each side of the hexagon is 2 m. What is the area of the rectangle BCEF?



- (1)  $4 \text{ m}^2$
- (2)  $4\sqrt{3} \text{ m}^2$
- (3)  $8 \text{ m}^2$
- (4)  $4+4\sqrt{3} \text{ m}^2$

14. A worker is digging a ditch. He gets 2 assistants who work  $\frac{2}{3}$  as fast as he does. If all 3 work on a ditch they should finish it in what fraction of the time that the worker takes working alone?

- (1)  $\frac{3}{7}$
- (2)  $\frac{1}{2}$
- (3)  $\frac{3}{4}$
- (4)  $\frac{4}{3}$

### SECTION III DATA ANALYSIS & SUFFICIENCY

Directions: The table below gives the Human Development Index (HDI). The HDI value is between 0 and 1.

| States         | Value 1981 | Value 1991 | Value 2001 |
|----------------|------------|------------|------------|
| Andhra Pradesh | 0.298      | 0.377      | 0.416      |
| Assam          | 0.272      | 0.348      | 0.386      |
| Bihar          | 0.237      | 0.308      | 0.367      |

|                |       |       |       |
|----------------|-------|-------|-------|
| Gujarat        | 0.360 | 0.431 | 0.479 |
| Haryana        | 0.360 | 0.443 | 0.509 |
| Karnataka      | 0.346 | 0.412 | 0.478 |
| Kerala         | 0.500 | 0.591 | 0.638 |
| Madhya Pradesh | 0.245 | 0.328 | 0.394 |
| Maharashtra    | 0.363 | 0.452 | 0.523 |
| Orissa         | 0.267 | 0.345 | 0.404 |
| Punjab         | 0.411 | 0.475 | 0.537 |
| Rajasthan      | 0.256 | 0.347 | 0.424 |
| Tamil Nadu     | 0.343 | 0.466 | 0.531 |
| Uttar Pradesh  | 0.255 | 0.314 | 0.388 |
| West Bengal    | 0.305 | 0.404 | 0.472 |
| All India      | 0.302 | 0.381 | 0.472 |

15. Select the incorrect statement.

- (1) Kerala has consistently reported the highest HDI.
- (2) Bihar has consistently reported the worst HDI.
- (3) Assam has maintained stability in its comparative ranking among states.
- (4) Rajasthan has shown an improvement in its comparative ranking among other states.

16. Which states improved the HDI value in 2001 to match the all India value?

- (1) Tamil Nadu
- (2) Orissa
- (3) Rajasthan
- (4) West Bengal

Directions: The following problem has a question followed by two statements labeled A and B. Use the data given in the statements to decide whether the statements are sufficient to answer the question. Choose your answer as

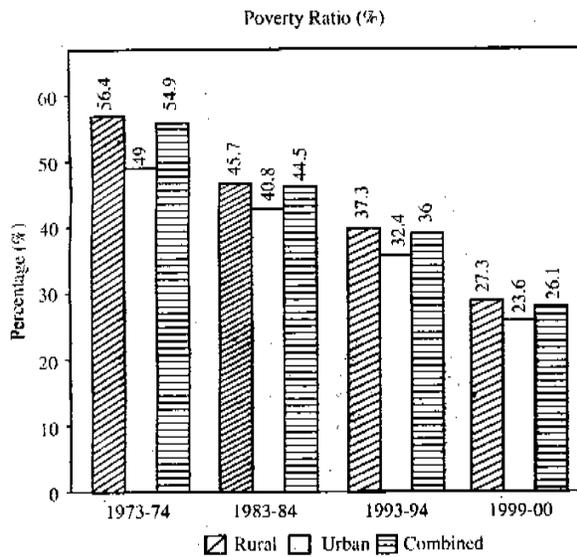
- (1) if statement 'A' alone is sufficient to answer the problem.
- (2) if statement 'B' alone is sufficient to answer the problem.
- (3) if statements 'A' and 'B' are together needed to answer the problem.
- (4) if statements 'A' and 'B' are not sufficient to answer the problem.

17. C is a circle with centre D and radius 2. E is a circle with centre F and radius R. Are there any points which are on both E and C?

A : The distance from D to F is  $1 + R$

B :  $R = 3$

**Directions:** The bar graph below pertains to estimates of incidence of poverty in India. It is given as percentage. The accompanying table gives population of India during 1971-2001 as per census.



| Population : | 1971   | 1981   | 1991   | 2001    |
|--------------|--------|--------|--------|---------|
| All India :  | 548160 | 684329 | 846302 | 1027015 |

(In Thousands)

18. The total number of poor in 2000 is approximately

- (1) 268 millions.      (2) 278 millions.  
 (3) 242 millions      (4) 300 millions.

19. From the given data it can be inferred that

- (1) rural poverty ratio is constantly declining.  
 (2) urban poverty ratio has been consistently falling.  
 (3) combined ratio has been decreasing.  
 (4) All the above.

## SECTION IV INTELLIGENCE & CRITICAL REASONING

**Directions:** The question below is followed by two arguments numbered I and II. You have to decide which of the given arguments is a "strong" argument. Give your answer as

- (1) if only argument I is strong.  
 (2) if the argument II is strong.  
 (3) if both I and II are strong.  
 (4) if neither I nor II is strong.

20. Should telecasting feature films be stopped?

Arguments :

- I Yes, the feature films misguide young children.  
 II No, this is the only way to educate the masses.

**Directions:** Find out the correct group of letters from the answer options (1) to (4) to represent the same relationship among the group of letters as established among the sets at the top.

21. AEZ : EIY : IOX : .....

- (1) UYZ                      (2) AEX  
 (3) EIX                      (4) OUW

22. Isha is older than Sunder. Misa is older than Harbans. Harbans is younger than Gyan. Sunder and Gyan are of the same age. If the above facts are true, which of the following conditions must also be true?

- (1) Misa is older than Gyan.  
 (2) Misa is older than Isha.  
 (3) Sunder is younger than Misa.  
 (4) Isha is older than Harbans.



Directions: There are two statements followed by two possible inferences A and B. Assume the statements to be correct even if they vary with facts. Choose your answer as

- (1) if only inference A follows.
(2) if only inference B follows.
(3) if both inferences A and B follow.
(4) if neither inference A nor B follows.
23. Every minister is a student. Every student is inexperienced.
A : Every minister is inexperienced.
B : Some inexperienced are students.
24. Seven men, A, B, C, D, E, F and G are standing in a queue in that order. Each one is wearing a cap of different colour like violet, indigo, blue, green, yellow, orange and red. D is able to see in front of him green and blue, but not violet. E can see violet and yellow, but not red. G can see caps of all colours other than orange. If E is wearing an indigo coloured cap, then the colour of the cap worn by F is
(1) blue. (2) violet.
(3) red. (4) orange.

SECTION V
INDIAN & GLOBAL ENVIRONMENT

- 25. What does the acronym CTBT stand for?
(1) Continued Test Ban Treaty
(2) Commercial Tax Based Tariff
(3) Comprehensive Test Ban Treaty
(4) None of these

- 26. Which newspaper has the motto – Journalism of Courage?
(1) The Hindustan Times
(2) The Washington Post
(3) The Indian Express
(4) The Guardian
27. The Indian Railways is one of the largest railway systems with an extensive network of over 63,000 route kilometers. Approximately .....of the network is electrified.
(1) 50% (2) 25%
(3) 45 % (4) 60%
28. The National Literacy Mission (NLM) seeks to achieve full literacy i.e. a sustainable threshold level of 75% literacy by year
(1) 2005 (2) 2010
(3) 2015 (4) None of the above

Answers to Sample Questions

- 1. (1) 2. (2) 3. (1) 4. (1)
5. (1) 6. (3) 7. (2) 8. (2)
9. (1) 10. (4) 11. (4) 12. (4)
13. (2) 14. (1) 15. (3) 16. (4)
17. (1) 18. (1) 19. (4) 20. (4)
21. (4) 22. (4) 23. (1) 24. (3)
25. (3) 26. (3) 27. (2) 28. (1)

Sample Answer Sheet is given in pages xvii-xviii.