

## MAT Entrance Test

### December 02, 2007

### Bird's Eye View

<b>Total Number of Questions</b>	:	200
<b>Total Time</b>	:	150 minutes
<b>The Marking Scheme</b>	:	One mark for each correct answer and – 0.25 mark for each incorrect answer.
<b>Number of Options</b>	:	4
<b>Number of sets Available</b>	:	4
<b>Sections/Sectional Time Limit</b>	:	The paper was jumbled
<b>Test Structure</b>	:	

Test Area	Number of Questions	Difficulty Level
Reading Comprehension	20	<b>Moderate</b>
English Usage	20	
Quantitative Aptitude	40	
Data Interpretation	35	
Logical Reasoning	40	
Data Sufficiency	5	
General Awareness	40	
	200	

We are please to present you the detailed analysis of Management Aptitude Test held on 02<sup>nd</sup>, December 2007 at 73 centers all over India.

This year AIMA move one step ahead from last year and jumbled up the paper (As last year AIMA had removed sections, but the questions from same test area were together). Difficulty wise there was nothing new in the paper, overall the paper was moderate. There were 40 questions each from English Language, General Awareness, Data Interpretation and Data Sufficiency, Logical Reasoning and Quantitative Aptitude.

From General Awareness area there were questions Business, Current Awareness, Economics and Five year plans. Since the marks get in GK questions do not include in merit an attempt of 15 to 20 questions will be sufficient.

- India's food and agriculture sector is expected to be double in next .... years. – 10, 5, 2, 15
- NRHM stands for –
- According to Economic Survey 2006-07, India's economy is poised for .... growth in this financial year. – 10.2, 9.2, 7.2, 5.2
- Which of the following is the world's largest clock brand? –
- What was India's share in world exports in 2006? – 1%, 10%, 8%, 0.5%
- Which motor company announced development of super compact car costing around Rs. 1, 00, 000? –
- Debt holders of a company are its – Shareholders, Creditors, Debtors, Workmen
- After Hindi which of the following languages is most talked in India – Telugu, Bengali, Marathi, Tamil
- 'The best a man can get' is the punchline of –
- Plywood industries near Ahmedabad is famous for – Kissan, Brooke Bond, Maggi,
- Which country uses, buys and consumes the most gold in world? – USA, India, China, SA
- Which of the following states have most number of Lok Sabha seats? – UP, MP, Karnataka, Rajasthan
- Australian cricket player 'Bret Lee' is the model for which brand? –
- 'A passion to perform' is a punchline of –
- The growth of agriculture sector after 11th five year plan is targeted to –
- Host city for the Olympics 2008 is –
- Who is Deepak Parekh?
- 'More, for you' is the punchline of –
- Sunita Williams has a world record for maximum number of days to stay in space. For how many days she stayed in space? – 185, 200, 195, 201
- 'Bullion' refers to –
- 'Korba' is famous for –
- State with highest population density is –
- John Player is brand from –
- Largest employer in the world is – Reliance Industries, Indian Railways,
- The term R in brand Wagon R refers to –
- 'Globalisation of Indian Economy' means –
- 'Vimal' is a brand from –
- Inflation means –
- Black Money refers to –
- India earns maximum foreign exchange from the export of –
- Dumping in context of international trade refers to –
- WTO earlier known as –
- Which of the following country is not a member of G-8? –
- TRIPS stands for –
- Which of the following is the United Nations body for Global Climate Change? –

**The questions on Numbers, Percentages, Averages, Work and Time, Ratio and Proportion, Pipes and Cisterns, Time, Speed and Distance, Boats and Streams, Mixtures, SI and CI, Progression, Quantitative Comparison, Mensuration 2-D and 3-D, Permutation and Combination and Probability were the representative from the QA area. The following table will give the detail break up of the questions from this area. An attempt of 30 to 35 questions from this area is decent.**

**We have recalled some of the questions which are as follows**

Numbers	4	Easy	
Ratio and Proportion	2		
Averages	2		
Percentages	2		
Pipes and Cisterns	2		
Height and Distance	2		
Time, Speed and Distance	3		
Boats and Stream	2		
Mixtures	3	Moderate	
Work and Time	3	Moderate	
SI and CI	1		Easy
Progression	1		
Permutation and Combination	3		
Probability	4		
Mensuration	1		
Quantitative Comparison	5	Easy	
<b>Total</b>	<b>40</b>		

- In a class, 50 students play Cricket, 20 students play Football and 10 play both Cricket and Football. How many play at least one of these two games? – 80, 50, 10, 60
- In a survey of payments of election bill of resident complex of 125 houses, it is found that 50 houses defaulted on their payments of election bill in January 60 in February and 40 in March. Some houses can default in consecutive months only 20 defaulted in Jan. and Feb., 10 default in Feb. and March. How many defaultes in all three months? – 5, 7, 3, 9
- A bottle is full of Dettol. One-third of it is taken out and then an equal amount of water is poured into the bottle to fill it. This operation is done four times. Find the final ratio of Dettol and water in the bottle. – 20:74, 16:65, 13:55, 10:48.
- A person standing on a bank of river observes that the angle of elevation of top of a tree on the opposite bank of the river is  $60^\circ$  and when he retires 40m away from the tree the angle of elevation becomes  $30^\circ$ . The breadth of the river is
- In a tournament Indian Cricket team play 2 matches each with West Indies and Australia. The probability of getting 0, 1 and 2 points (India) is 0.45, 0.05 and 0.50 respectively. Assuming outcomes are independent what is the probability of India getting at least 07 point? – 0.0624, 0.0875, 0.8750, 0.0250

6. The probability of solving a questions by three persons who are working independently on it is  $1/3$ ,  $1/4$  and  $1/5$ , then what is the probability that questions can't be solved is –  $1/3$ ,  $2/5$ ,  $1/5$
7. A company produce two types of shirts – Men's shirts and Women's shirts. The profit margin in men's shirt is 8%, while overall profit markign is 6%. The women's shirt comprise 60% of total output. What is the average profit per sales rupee in women's shirt? – 0.0666, 0.0166, 0.0466, 0.380
8. **Ten questions to be selected out of 13. What will be the total no. of choices available if atleast 4 is to be chosen from first five? - This questions is from PT material.**

There were in all 20 questions on Statement-Argument, Statement-Assumption, Statement-Course of Action and Cause and Effect(five questions on each topic). Rest of the 20 questions from this area were on Data Arrangement, Coding and Decoding, Blood Relations, Alphabetical Series, Direction Test etc. The detail breakup is shown in the following table

We have recalled some of the questions which are as follows.

Statement-Argument	5	Moderate
Statement-Assumption	5	
Statement-Course of Action	5	
Cause and Effect	5	
Data Arrangement (two sets)	10	Easy
Direction Test	1	
Blood Relation	2	
Group and Conditioning	2	
Coding and Decoding	3	
Quantitative Reasoning	1	
Alphabetical Series	1	
<b>Total</b>	<b>40</b>	

**DIRECTIONS:** Attempt these question based on the information given.

- A few friends are sitting on a bench.
- Sunil is sitting next to Sunita and Sanjay is sitting next to Bindu.
- Bindu is not sitting with Sumit.
- Sumit is on the left end of the bench and Sanjay is on second position from right hand side.
- Sunil is on the right side of Sumit and Sunita.
- Sunil and Sanjay are sitting together.

1. Sunil is sitting between
 

(1) Sunita and Sanjay	(2) Sumit and Bindu
(3) Sunita and Bindu	(4) Sanjay and Sumit
2. Who is sitting in the center?
 

(1) Bindu	(2) Sunil
(3) Sumit	(4) Sanjay
3. Sumit is sitting on the
 

(1) Extreme left	(2) second place from left
(3) Second place from right	(4) Extreme right
4. Bindu is sitting on the
 

(1) second from left side	(2) extreme right side
(3) extreme left side	(4) third from left side
5. Sunita is sitting how many places away from Bindu?
 

(1) 4	(2) 2
(3) 1	(4) 5

**DIRECTIONS:** Answer these questions independent of each other.

6. A man starts from a point and moves 3 km north, then turns to west and goes 2 km. He turns north and walks 1 km and then moves 5 km towards east. How far is he from the starting point?
 

(1) 10 km	(2) 5 km
(3) 11 km	(4) 8 km
7. Ankit is related to Binny and Chinkey, Daizy is Chink is mother. Also Daizy is Binny's sister and Aruna is Binny's sister. How is Chinkey related to Aruna?
 

(1) Sister	(2) Coush
(3) Niece	(4) Aunt
8. A tax driver commenced his journey from a point and drove 10 km towards North and turned to his left and drove another 5 km. After waiting to meet one of his friends, he turned to his right and continue to drive another 10 km. He has covered a distance of 25 km so far but in which direction may he now be going?
 

(1) West	(2) East
(3) North	(4) South
9. Saroj is mother-in-law of Vani who is sister-in-law of Deepak. Rajeesh is father of Ramesh, the only brother of Deepak. How is Sajor related to Deepak?
 

(1) Wife	(2) Aunt
(3) Mother-in-law	(4) Mother
10. Sonu is 4 years younger to Manu while Dolly is four years younger to Sumit but  $1/5$  times as old as Sonu. If Sumit is eight years old, how many times as old is Manu as Dolly?
 

(1) 2	(2) $1/2$
(3) 3	(4) 1

11. One year ago, a mother was 4 times older to her son. After 6 years, her age becomes more than double her son's age by 5 years. The present ratio of their age will be  
 (1) 3 : 1 (2) 11 : 3  
 (3) 13 : 12 (4) 25 : 7
12. In a certain code, 'BASIC' is written as 'DDULE'. How is 'LEADER' written in that code?  
 (1) NGCFG T (2) OHDGHU  
 (3) NGCGGU (4) OGD FHT
13. In a certain code OVER is written as \$#%\* and VIST is written as #+x-. How is SORE written in that code?  
 (1) %x\$\* (2) x\*\$%  
 (3) x\$\*% (4) None of these
14. In a certain code language 'ne ri so' means 'good' rainy 'day', 'si ne po' means 'day is wonderful' and 'ri jo' means 'good boy'. Which of the following means 'rainy' is the code.  
 (1) si (2) ri  
 (3) ne (4) so
15. Complete the series  
 B0R, E3U, G9Y, J18D  
 (1) L30J (2) H9N  
 (3) E3P (4) G3U

**DIRECTIONS:** Study the following information to answer these questions.

There are six persons A, B, C, D, E and F. C is the sister of F. B is the brother of E's husband. D is the father of A and grandfather of F. There are two fathers, three brothers and a mother in the group.

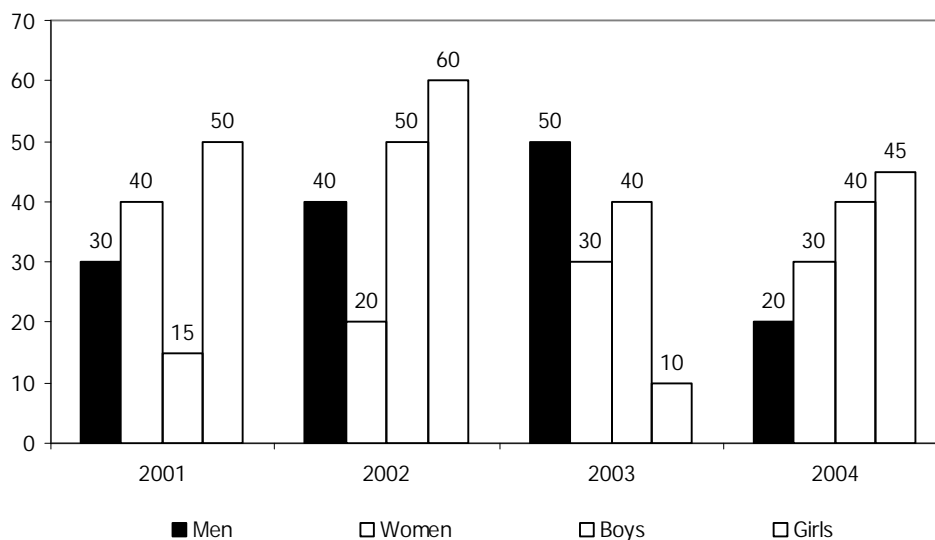
16. Who is the mother?  
 (1) D (2) B  
 (3) A (4) E
17. Who is E's husband?  
 (1) A (2) C  
 (3) B (4) F
18. How many male members are there in the group?  
 (1) Three (2) Two  
 (3) One (4) Four
19. How is F related to E?  
 (1) Son (2) Husband  
 (3) Uncle (4) Daughter
20. Which of the following is a group of brothers?  
 (1) BFC (2) ABD  
 (3) ABF (4) BDF

There were total 35 questions were on DI and five questions were on DS. The DI sets were on Bar Graph, Pie Chart, Caselete, while there were 4 options direct DS set with jumbled options. Three DI sets were directly from PT material. The table represents the detail of the section

Bar Graph (3 sets of 4 questions each)	12	Moderate
Caselete	4	
Pie Charts	4	
Table	4	
Misc. (three sets)	11	
Data Sufficiency	5	
<b>Total</b>	<b>40</b>	

We have recalled some of the questions, which are as follows.

**DIRECTIONS:** In a city, there were 2 lakh, 3 lakh, 4 lakh and 5 laks men during the period 2001 to 2004 respectively. In the same period, the number of women increased at the rate of 10% every year beginning at 1.3 lakh in 2001. The number of boys in the city increased at 5% per year and was 1.2 lakh in 2004. The number of girls had been increasing at 25% and was 1 lakh in 2004. The bar graph below shows the percentage of literates in the city between the period 2001 to 2004. Study the bar graph to answer these questions.



1. In which year was the number of literates in the city maximum?  
 (1) 2003 (2) 2002 (3) 2001 (4) 2004

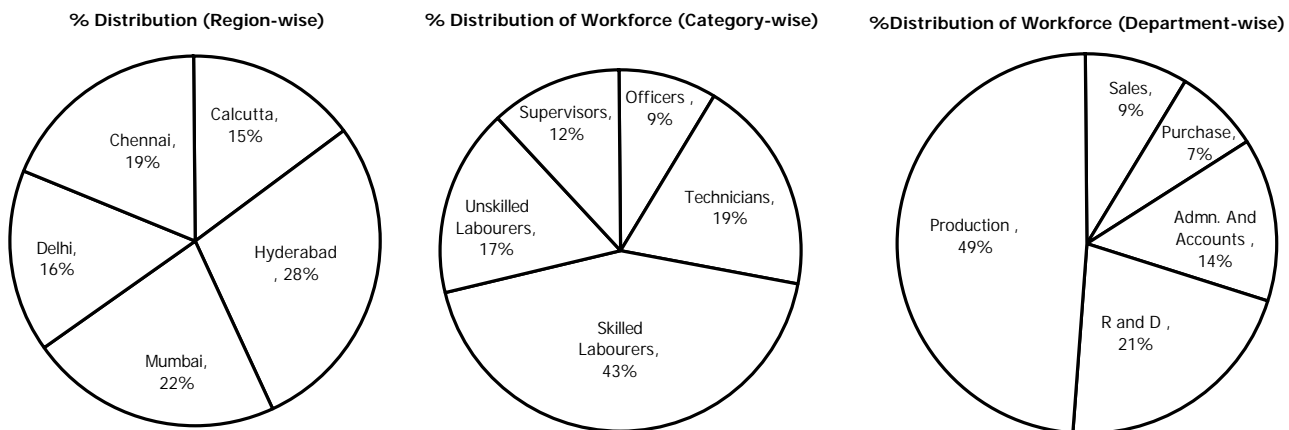
2. In 2002, what was the approximate ratio of literate women to literate boys?  
 (1) 0.52                                      (2) 0.45                                      (3) 0.4                                      (4) 0.35
3. What was the percentage increase in the number of literate girls from 2003 to 2004?  
 (1) 526%                                      (2) 560%                                      (3) 463%                                      (4) 426%
4. In 2001, which was the total number of literates in the city?  
 (1) 1.53 lakh                                      (2) 4.9 lakh                                      (3) 2 lakh                                      (4) 1.625 lakh

**DIRECTIONS:** Answer these questions based on the information given.

Fabric X has to go through three stages of manufacturing viz spinning, weaving and dyeing. In Rimal Fabric company, there are six spinning machines, ten weaving machines and five dyeing machines. Each machine works for 10 hrs a day. One unit of Fabric X needs 40 minutes on a spinning machine 2 hours on a weaving machine and 30 minutes on a dyeing machine in order to be completed. Similarly one unit of Fabric Y needs 60 minutes on a spinning machine 30 minutes on a weaving machine and 60 minutes on a dyeing machine in order to be completed.

5. In a day, how many units of Fabric Y can be completed at most?  
 (1) 40                                      (2) 30                                      (3) 20                                      (4) 50
6. If 20 units of Fabric Y are made in a day, how many units of Fabric X can be completed the same day?  
 (1) 40                                      (2) 20                                      (3) 0                                      (4) 45
7. If only 30 units of Fabric Y are made in a day, how many machine hours will be idle that day?  
 (1) 135                                      (2) 130                                      (3) 120                                      (4) 150
8. If one more dyeing machine is added, at the most how many more units of Fabric X can be made in a day?  
 (1) 8                                      (2) 5                                      (3) 0                                      (4) 10

**DIRECTIONS:** Study the following pie charts to answer these questions.



**Total workforce = 68700**

9. If 22% of the production department persons are posted at Hyderabad region, then what % of Hyderabad workforce are the production department?  
 (1) 78                                      (2) 68                                      (3) 35.5                                      (4) 22
10. If 11% officers of the company are in administration and accounts department, of which 75% are posted at Calcutta, then what % of total officers of the company are posted at administration and accounts, Calcutta?  
 (1) 8.25                                      (2) 3.75                                      (3) 11                                      (4) Data insufficient
11. If under expansion programme, the company recruits 12% of workforce of Hyderabad and Mumbai regions, but 6% of workforce of Calcutta region retires, and workforce at other regions remain the same, then what will be the total workforce of the company?  
 (1) 68238                                      (2) 72204                                      (3) 65196                                      (4) None of these
12. If 35% of skilled labourers are posted at Mumbai region having its department-wise distribution of R & D, Administration and accounts, Sales, Purchase, and Production in 1 : 2 : 3 : 4 : 5, then find what % of total skilled labourers of the company are posted at Mumbai sales department.  
 (1) 21                                      (2) 65                                      (3) 35                                      (4) 7]

**THIS SET IS FROM PT MATERIAL**

**DIRECTIONS:** Refer to the following table and answer the questions that follow.

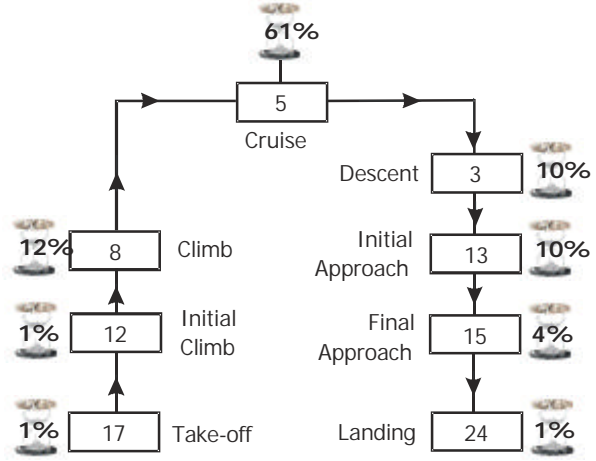
**Statistics of Staff Members Knowing Computer Operation and Typing in a Government Office**

Length of service (in years)	Knowing Computer Operation		Knowing Typing		Knowing both		Total Number of Staff	
	Graduate	Non-graduate	Graduate	Non-graduate	Graduate	Non-graduate	Graduate	Non-graduate
0-3	40	30	30	20	30	15	100	200
4-7	60	20	80	60	30	15	140	90
7 +	50	40	40	50	30	20	200	160

142. What is the ratio of graduate staff members having 4-7 years of service who do not know typing to non-graduate staff members having 7+ years of service not knowing computer operation?
- (1) 1 : 2                      (2) 2 : 5                      (3) 2 : 1                      (4) 4 : 3
143. If 20 more graduate staffs knowing both computer operation and typing are recruited, then the percentage of graduate staffs knowing Typing only and Computer Operation only and both in 0-3 years of service over the total number of staff in the same range is
- (1) 50%                      (2) 20%                      (3) 40%                      (4) 33.33%

**THIS SET IS FROM PT MATERIAL**

**DIRECTIONS:** The following figure shows the statistics of mine elevator crashes presented by mine elevator committee of Minesland. Study the following data and answer the question given below it.



Stages of a flight

Percentage of accidents during different stages of flight of a mine elevator

Percent of flight time during different stages

83. If proneness to accident at any stage of flight is defined as the ratio of the number of accidents at that stage to the flight duration of the stage, then at what stage of flight is the mine elevator least prone to an accident?
- (1) Initial Climb                      (2) Landing                      (3) Descent                      (4) Cruise

84. More than one-third of the number of accidents occurred during  
 (1) Landing and Climbing (2) Take-off and Final Approach  
 (3) Take-off and Initial Climbs (4) Cruise to Final Approach
85. The last 25% of the flying time accounted for ..... percentage of accidents.  
 (1) 42 (2) 55 (3) 58 (4) 47

**There were total five RC passages containing total 20 questions. The detail of RC passages is as follows**

Passage	Theme	Number of Questions	Length
I	Real Estate market in India	5	1000
II	Renewal energy sources in India and Govt. policies	3	1250
III	Granual Material	4	1000
IV	Transportation System	4	1000
V	Psychology	4	1200

**From English Usage there were total 20 questions. The questions were on Analogies, Fill in the blanks, Idioms and phrases and Sentence Correction. Some of the questions were**

**Analogies:** BEWILDERMENT : CONFUSION, PREAMBLE : STATUE, ADMONISHMENT : CASTIGATION, EXTORTION : INTIMIDATING.

**Idioms:**

- The poet drew on his fancy not his knowledge of nature, when he wrote his poems on birds – Used his imagination, Used his aptitude, Used his understanding, Used his skills.
- Very ambitious people do not like to test on their laurels – be impatient, be motivated, be unhappy, be complacent.
- They made bones about acknowledge their debt to his .....

## Overall Cut-Off

**A score of 100+ should be good to getting AMITY, BIM-Tech.  
 Christ and some other top B-Schools**

