

## Management Aptitude Test December 01, 2002

The test comprised 200 questions, to be solved in a time span of 150 minutes. As such no sectional time limit were mentioned. While there was 1 mark allotted for each correct answer, the instructions only mentioned that there are negative marks for wrongly marked answers, however it no quantification of the same was done. Thus, while solving the paper students had to concentrate more on accuracy.

Also, the instructions mentioned that the composite score is evaluated out of the marks obtained in the first four sections. The decision whether to include or omit the general awareness section in final assessment varied from institute to institute. Hence student are advised to fairly divide the time amongst sections as proficiency in all areas was of importance.

Sections	Number Of Questions
General Knowledge	40
Language Comprehension	40
Data Interpretation/Data Sufficiency	40
Mathematical skills	40
Logical Reasoning + Critical Reasoning	40
<b>Total</b>	<b>200 Questions</b>

### General Knowledge

**Directions for Q. 1 – 40 :** For the following questions, choose the correct option.

- 'Scorpio' is the product of which company?  
(1) Toyota (2) Fiat  
(3) Maruti (4) Mahindra & Mahindra  
**Ans.(4)**
- How many members of Rajya Sabha retire after every two years ?  
(1) 1/3 rd of the total members (2) 2/3 rd of the total members  
(3) 3/4 th of the total members (4) 1/5 th of the total members  
**Ans.(1)**
- In which states are we having the water problem ?  
(1) Karnataka & Tamil Nadu (2) Tamil Nadu & Andhra Pradesh  
(3) Andhra Pradesh & Orissa (4) Kerala & Tamil Nadu  
**Ans.(1)**
- Konkan Railway comes in which Railway zone ?  
(1) Eastern Railway (2) Northern Railway  
(3) Southern Railway (4) None of the above  
**Ans.(4)**
- How many members are there in SAARC ?  
(1) 9 (2) 7  
(3) 6 (4) 5  
**Ans.(2)**
- Which of the following is a temporary member of 'Security Council' ?  
(1) Switzer land (2) USA  
(3) France (4) UK  
**Ans.(1)**
- In which country 'Busan' is situated ?  
(1) South Korea (2) North Korea  
(3) Japan (4) Malaysia  
**Ans.(1)**

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8. Which one of the following were the recommendations on UTI ?  
 (a) split UTI into UTI-I and UTI-II  
 (b) UTI-II to be given asset base of about 18 crore  
 (c) UTI-II to be privatized and put under professional management.  
 (1) Only (a) (2) (a) & (c)  
 (3) Only (b) (4) (c) & (d)  
**Ans.(2)**
9. Which of the following is the present Finance minister of India.  
 (1) Mr. Jaswant singh (2) Mr. Yashwant sinha  
 (3) Mr. Mulayam singh yadav (4) None of the above  
**Ans.(1)**
10. Number of union territories in India is :  
 (1) 3 (2) 4  
 (3) 5 (4) 7  
**Ans.(4)**
11. Kyoto agreement relates to :  
 (1) Drug trafficking (2) Environment  
 (3) AIDS (4) Population  
**Ans.(2)**
12. Vice president is chairman of :  
 (1) Lok sabha (2) Rajya sabha  
 (3) Parliament (4) All of these  
**Ans.(2)**
13. Which of the following nation is the Second fastest spender on IT ?  
 (1) China (2) Japan  
 (3) USA (4) Germany  
**Ans.(1)**
14. According to IMF growth rate of Indian economy projected as \_\_\_ % .  
 (1) 4.5 % (2) 6 %  
 (3) 5.1 % (4) 7 %  
**Ans.(1)**
15. The largest pharmaceutical company in India with turnover of more than 1000 crores is :  
 (1) Ranbaxy (2) Cipla  
 (3) Smith kline (4) None of these  
**Ans.(2)**
16. Which of the following company has organise 'Trade fair' ?  
 (1) ITDC (2) CII  
 (3) ITPO (4) None of the above  
**Ans.(3)**
17. Which of the following is NOT listed on NYSE ?  
 (1) Reddy labs (2) ICICI  
 (3) WIPRO (4) TCS  
**Ans.(4)**
18. Which one of Tata's companies was in news for having an audit report submitted on it and then withdrawn ?  
 (1) Tata Finance (2) Tata Tea  
 (3) Tata Telco (4) Tata Tisco  
**Ans.(1)**
19. What was the name of organisation that was later turned into UNO ?  
 (1) League of Nations (2) UNICEF  
 (3) Security Council (4) None of the above  
**Ans.(1)**
20. Who is secretary general of UNO presently ?  
 (1) Kofi Annan (2) Boutras Boutras Ghali  
 (3) Trigve Lie (4) None of the above  
**Ans.(1)**

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21. What does SAARC stand for?  
(1) South Asian Atlantic Research Countries  
(2) South Asian Association for Research  
(3) South Asian Association for Regional Cooperation  
(4) None of the above  
**Ans.(3)**

22. What does LTTE stand for ?  
(1) Liberation Taskforce of Tamil Elam  
(2) Liberation Tigers of Tamil Elam  
(3) Liberation Tamil Elam  
(4) None of the above  
**Ans.(2)**

23. What does ASEAN stand for ?  
(1) Association of South Asian Nations  
(2) Association of South East Asian Nations  
(3) Association of several East Asian Nations  
(4) None of the above  
**Ans.(2)**

More Questions were asked on General Knowledge.

### Language Comprehension

In all two RC Passages were given. One big and other was small. On both the passages there were 5 questions asked.

**Question 41 - 45 :** Question 41 to 45 was based on passage, the theme of the passage was "**Liberalization process in India**." The size of the passage was about 750 - 1000 words. It was moderate in difficulty and question asked were direct.

**Question 46 - 50 :** Questions 46 to 50 was based on second passage, the theme of the passage was on **Government and Corporate Governance**." The passage was small in size and question asked were very easy. Questions like " If character is lost everything is lost, similarly if ethics are lost, everything is lost (In a company)" and the meanings of words 'MANUAL' and 'PROBOSCIS' as per the passage were asked.

**Directions for Q. 51 - 53 :** Choose the **closest meaning** of the words from the options given below

51. LACONIC  
(1) Ambiguous (2) VELOURS  
(3) Controversial (4) Brief  
**Ans.(4)**
52. OBSCURE  
(1) Logical (2) Indistinct  
(3) Assertive (4) Clear  
**Ans.(2)**
53. PURELY  
(1) Exclusively (2) Of rubbish  
(3) Dormant (4) Of obscenity  
**Ans.(1)**

**Directions for Q. 54 - 58 :** Fill in the most appropriate word in the blanks given in the passage given below.

54. He was a traitor \_\_\_\_ his country.  
(1) To (2) In  
(3) Of (4) For  
**Ans.(1)**
55. The country has ushered \_\_\_\_ a new era.  
(1) In (2) Into  
(3) Away (4) None of the above  
**Ans.(1)**

There were three more question based on Fill in the blanks.

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**Questions 59 to 61 :** In each of the following question word analogy is given, followed by four options. Find the most similar analogy from the given options :

59. OVATION : APPLAUD  
(1) GRIEF : LOSS (2) TRIUMPH : FAIL  
(3) ROUT : DEFEAT (4) None of the above

**There were two more questions based on WORD ANALOGIES (MOST SIMILAR)**

**Questions 62 & 63 :** Questions 62 and 63 were based on WORD ANALOGIES (OPPOSITE)

**Questions 64 to 66 :** Questions 64 to 66 were based on Sentence Ordering, in which a sentence was provided in a jumbled form with sets of words underlined and labeled ABCD. The options were the possible ordering of ABCD that would form a coherent and logical sentence. (EASY)

**Questions 67 to 69 :** Questions 67 to 69 were based on Sentence Correction. Sentences were provided with four words underlined and respectively labeled ABCD. The word that was incorrect in placement and/or usage and/or form was to be found out.

**Questions 70 to 72 :** Question 70 to 72 were based on Fill in the blanks (Two Words)

### Mathematics

The questions were a fair mix of slightly tough/lengthy ones as well as sitters. Moreover, some of the calculative questions had options that were so provided that smart evaluation would eliminate two-three of the options in the first look. Specifically, the tougher questions were more based onto very good understanding of fundamental concepts.

**Directions for Q. 81 to 120 :** For the following questions, choose the correct options.

81. A person borrowed a sum at certain rate of interest for two years on Simple Interest. He lent it to another at same rate for same period at Compound Interest. In end, he paid Rs. 4000 and received Rs. 4200. The rate of interest is :  
(1) 28 % (2) 30 %  
(3) 12 % (4) 18 %

**Sol:** Let, the rate of interest is R % and principle is Rs. P. Then by the condition given in question :

$$4000 - P = \frac{2 \times P \times R}{100} \dots(1) \text{ and } 4200 = P \left( 1 + \frac{R}{100} \right)^2 \dots(2)$$

By solving equation (1) and (2) simultaneously we get R = 27.91%. **Ans.(1)**

82. A person has a lawn adjacent to his house. Wants to put a fencing but has wire only 30 m in length. Area of lawn is 100 square metre. He aligns leaves out one side allowing the wall of house to act as fencing and wires the remaining three sides. The length of the lawn is :  
(1) 5 metre (2) 10 metre  
(3) 20 metre (4) 50 metre

**Sol:** Let, the length of the lawn is x m and the breadth of the lawn is y m. Then, by the condition given in question :  
 $x \times y = 100 \dots(1)$  and  $x + 2y = 30 \dots(2)$ . By solving both the equations simultaneously, we get  $x = 10$ ,  $y = 10$ .  
**Ans.(2)**

83. Discount of 20% followed by that of 30% is equal to single discount of:  
(1) 40% (2) 50%  
(3) 55% (4) 44 %

**Sol:** Discount of 20% followed by that of 30 % = Single Discount of  $20 + (100 - 20) \times \frac{30}{100} = 44\%$ . **Ans.(4)**

84. If the side of a square is increased by 30% then the area of square would change by \_\_\_\_ %.  
(1) 69% (2) 39%  
(3) 139% (4) 169%

**Sol:** Let each side of square = X. Then, area =  $X^2$ . Increase side of square = 1.3X. So, increased area =  $1.69X^2$ .  
Hence, percent increase in area = 69%. **Ans.(1)**

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85. A person goes uphill 200 km at 20 kmph and downhill at 40 kmph, then average speed for entire journey of 400 km :
- (1) 25.4 kmph (2) 23.2 kmph  
(3) 26.6 kmph (4) 24.7 kmph

**Sol:** Average speed of whole journey, when same distance were covered by different speeds =  $\frac{2xy}{x+y}$ , where x = first speed and y = second speed. So, required average speed =  $\frac{2 \times 40 \times 20}{40+20} = \frac{1600}{60} = 26.6 \text{ kmph}$ . **Ans. (3)**

86. A mixture of 40 litres of milk and water contains 10% of water. How much water must be added to make the water 20% in the new mixture ?
- (1) 5 (2) 10  
(3) 15 (4) 20

**Sol:** Quantity of water in given mixture = 4 litres. Quantity of milk in given mixture = 36 litres. Let x liters of water be added to it. Then,  $\frac{(4+x)}{(40+x)} \times 100 = 20 \Rightarrow x = 5 \text{ litres}$ . **Ans. (1)**

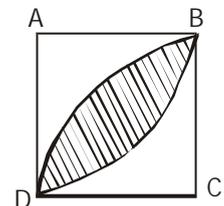
87. In what ratio should water be mixed with a liquid costing Rs. 12 per litre, so as to make a profit of 25% by selling the diluted liquid at Rs. 13.75 per litre ?
- (1) 11 : 1 (2) 7 : 2  
(3) 4 : 3 (4) 13 : 1

**Sol:** Let x litres of water will be taken with y litres of liquid. Then,  $12x \times \frac{125}{100} = (x+y) 13.75 \Rightarrow \frac{x}{y} = \frac{11}{1}$ . **Ans. (1)**

88. A ship is 77 km away from shore, has a leak. Water enters at 1 tones per minute and pump empties at 30 tones per hour. At water equals 210 tones, ship begins to sink. The speed of the ship (in kmph), so that it just makes it to shore when it begins to sink is :
- (1) 11 kmph (2) 15 kmph  
(3) 18 kmph (4) 22 kmph

**Sol:** Water enters in ship @ 1 tones per minute. i.e. 60 tones per hour and pump empties at 30 tones per hour. Water remained in ship in one hour = 60 - 30 = 30 tones. At 210 tones, ship begins to sink i.e., the ship has to cover 77 kms in  $\frac{210}{30} = 7$  hours. So, the speed of ship has to be  $\frac{77}{7} = 11 \text{ kmph}$ . **Ans. (1)**

89. A square ABCD of side 10 cm is given in the adjacent figure. What is the area of shaded region ? (Arcs drawn with A and C as centers)
- (1)  $50\pi - 100$   
(2)  $25\pi - 100$   
(3)  $100\pi$   
(4) None of the above



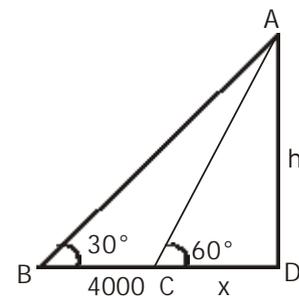
**Sol:** Area of quarter circles DBC and ABD =  $\frac{\pi}{4}r^2 = \frac{\pi}{4}10^2 = 25\pi$ . [  $\therefore r = 10 \text{ cm}$  ]  
Then, the area of Shaded region =  $100 - (25\pi + 25\pi) = 100 - 50\pi$ . **Ans. (1)**

90. Angle of elevation of satellite from two earth stations 4000 km apart is  $30^\circ$  and  $60^\circ$ . The height of satellite from earth is :
- (1)  $4000\sqrt{3}$  (2)  $2000\sqrt{3}$   
(3)  $1000\sqrt{3}$  (4)  $900\sqrt{3}$

**Sol:** In triangle ACD,  $\tan 60^\circ = h/x \Rightarrow x = h/3 \dots (1)$

In triangle ABD,  $\tan 30^\circ = h/(4000 + x) \Rightarrow \frac{1}{\sqrt{3}} = \frac{h}{4000 + \frac{h}{3}}$  (From equation 1)

$4000 + \frac{h}{\sqrt{3}} = \sqrt{3}h \Rightarrow h = 2000\sqrt{3} \text{ km}$ . **Ans. (2)**



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91. A person in a train counts 21 poles in 60 seconds. If poles placed on 50 metres apart then what is the speed of train (In kmph) ?

- (1) 22 m/sec (2)  $\frac{50}{3}$  m/sec.  
(3)  $14\frac{1}{2}$  m/sec (4)  $33\frac{1}{3}$  m/sec

**Sol:** 21 poles = 20 distances. Each distance of 50 metres. i.e., total distance covered in 60 second =  $20 \times 50 = 1000\text{m}$ .

Speed of the train =  $\frac{50}{3}$  m/sec. **Ans.(2)**

**Directions for 92 – 95 :** Read the following information carefully and answer the question that follow.

6 poles placed apart in distances of one metre. First two placed apart 10 metres, 2nd and 3rd 9 metres and so on.

92. Distance between first and last pole is :

- (1) 40 m (2) 50 m  
(3) 45 m (4) 60 m

**Sol:** Six poles = Five distance. Hence, distance between first and last pole =  $10 + 9 + 8 + 7 + 6 = 40$  metres. **Ans.(1)**

93. A Monkey jumps from last pole to 3rd pole then the distance jumped by Monkey is :

- (1) 30 m (2) 21 m  
(3) 24 m (4) 27 m

**Sol:** Distance jumped by Monkey =  $8 + 7 + 6 = 21$  metres. **Ans. (2)**

94. If one pole is removed and the rest placed equally apart then distance between two poles is :

- (1) 7.5 m (2) 15 m  
(3) 6 m (4) 12 m

**Sol:** Total distance = 30 metres (Solution 92). After removing one pole, number of poles = 5, hence distances = 4 and

distance between two poles =  $\frac{30}{4} = 7.5$  m. **Ans.(1)**

95. In a race of 600 metres, A can beat B by 60 metres and in a race of 500 metres, B can beat C by 50 metres. By how many metres will A beat C in a race of 400 metres.

- (1) 56 metres (2) 76 metres  
(3) 102 metres (4) 49 metres

**Sol:** If A runs 600 metres, B runs 540 metres. If A runs 400 metres, B runs  $\frac{540}{600} \times 400 = 360$  metres.

Again when B runs 500 metres, C runs 450 metres. When B runs 360 metres, C runs  $\frac{450}{500} \times 360 = 324$  m.

So A beats C by  $400 - 324 = 76$  metres.

96. Two persons walk in opposite directions from a same point around circular track of length 15000 metres at the speed of 50 m/sec and 25 m/sec. In what time will they meet for first time ?

- (1) 3 minutes 20 sec. (2) 2 minutes 40 sec.  
(3) 4 minutes 20 sec. (4) 1 minutes 50 sec.

**Sol.** Let, they meet after t seconds. i.e.,  $50t + 25t = 15000 \Rightarrow 75t = 15000 \Rightarrow t = 200$  seconds = 3 minutes 20 sec. **Ans.(1)**

97. 3 boys and 3 girls sit around circular table. Boy X does not want any girl neighbour and girl Y does not want any boy neighbour. How many arrangements are possible ?

- (1) 2 (2) 4  
(3) 6 (4) 8

**Sol:** Total arrangements possible =  $2! + 2! = 4$ . **Ans(2)**

98. If 6 coins were tossed together than what is the probability of getting one tail ?

- (1)  $\frac{2}{3}$  (2)  $\frac{1}{2}$   
(3)  $\frac{1}{6}$  (4)  $\frac{1}{8}$

**Sol:** Probability of getting one tail =  $\frac{1}{6}$ . **Ans.(3)**

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## Data Interpretation & Data Sufficiency

**Question 121 to 130 :** Two Data Interpretation sets based on Pie Charts were used. 5 Questions were asked on each of the set. One set was fairly manageable. Had only one pie chart to handle. Other set had two related pie charts, and was slightly calculative.

**Question 131 to 140 :** Three sets of Tables were given, which was easy to moderate in level. One set in particular seemed calculative, however turned out to have negligible calculations. Answers obtainable by observations.

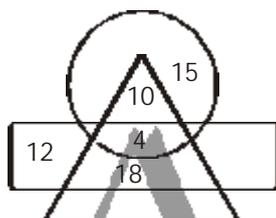
**Question 141 to 145 :** One DI set was based on Line Graph. 5 questions were asked on Line Graph.

**Question 146 to 149 :** One bar graph showing the values of export and import of USA, USSR, Third world and Developed countries. 4 questions were asked on bar graph.

**Questions 150 to 159 :** 10 moderate questions were asked on Data Sufficiency. (4 Option - Direct)

## Logical + Critical Reasoning

**Directions for Q. 161 & 162 :** In the following figure circle represents the number of Specialists, the rectangle represents the number of Medical Representatives, the triangle represents the number of Professors.



161. What is the number of peoples, who is both Specialist and Medical Representative ?

- (1) 4 (2) 18  
(3) 12 (4) 15

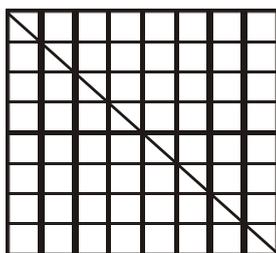
**Ans. (1)**

162. What is the number of peoples, who is both Professors and Specialist ?

- (1) 15 (2) 10  
(3) 12 (4) 18

**Ans.(2)**

**Directions for Q. 163 & 164 :** Following question are based on given figure. Choose the correct option for the given questions.



163. How many Triangles are in the above given figure ?

- (1) 64 (2) 32  
(3) 16 (4) None of the above

**Ans.(4)**

164. How many Squares are in the above given figure ?

- (1) 1764 (2) 1296  
(3) 64 (4) 128

**Ans. (1)**

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**Questions 165 – 170 :** 5 – 7 questions were asked on Critical Reasoning. The questions were tricky and close enough. Basically, given a scenario and two conclusions, which one of these or both or none can be inferred. Rest were basically data arrangement questions. Both single questions as well as question sets were seen. Moderate in difficulty.

**On the whole the test can be rated as an easy one. The cut-offs would be definitely on the higher side. But this will also vary from institute to institute. Thus possibly giving a numerical value will not be possible.**

The above mentioned are the only questions, which we were able to collect from our students. We would be glad to add any more questions which you can provide to us.



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