

# IMT Ghaziabad Entrance Test

## December 29, 2002

We are pleased to present a detailed analysis of the IMT entrance test that was held on December 29, 2002. The questions has been recalled with the help of PT faculty and PT students from across the nation.

### A bird's eye view :

- Duration : 150 minutes; number of questions : 200.
- Total 6 sections:
  - ◆ Section 1: 30 Q (English usage)
  - ◆ Section 2: 30 Q (Reading comprehension)
  - ◆ Section 3: 30 Q (Analytical aptitude)
  - ◆ Section 4: 50 Q (Numerical aptitude)
  - ◆ Section 5: 40 Q (Data interpretation)
  - ◆ Section 6: 20 Q (General knowledge)
- The marking scheme:
  - ◆ +1 for a correct answer.
  - ◆ -¼ mark for incorrect answers.

### Section 1 : 30 Q (English usage)

There were 30 Q on English usage including 10 questions on vocabulary, 6 questions on Para jumbles, 5 questions on sentence correction and 5 questions on letter arrangement. The level of difficulty was easy as most of the words were from general English. A decent attempt in this section could have been around 20 - 25 questions.

### Section 2 : 30 Q (Reading comprehension)

The RC section was an easier one with five short passages. The questions based on the passages were direct and a decent attempt in this section would be around 20-25 questions. **A complete passage was from the PT material (CT # 34).**

### Section 3 : 30 Q (Analytical aptitude)

This section was also manageable with 3 caselets, 2 sets on functions and 5 questions on Critical reasoning. The difficulty level was manageable and a good attempt in this section could have been 30-35 questions.

### Section 4 : 50 Q (Numerical aptitude)

Questions from numerical aptitude were very simple with a majority of questions from Arithmetic and Geometry. Most of the questions could be solved mentally, apart from that there were 5 questions on DS. A decent attempt could have been around 40-47 questions.

### Section 5 : 40 Q (Data interpretation)

Data interpretation consisted a total of 40 questions spread across 7 sets. Two sets were on combination graphs (line & bar and bar & pie), 2 sets were table based and other 3 sets were caselet based. There were two sets which were slightly difficult, a good selection of question sets could have solved 33-35 questions.

### Section 6 : 20 Q (General knowledge)

There were 20 questions in all and a well read student with a good knowledge of current events as well as conventional G.K, could have easily attempted at least 10-15 questions. The questions were based on book reviews, awards granted, world history and united nations.

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## Reading Comprehension

**Directions for Q.1 to 30 :** Read the following passages carefully and answer the questions that follow :

**This passage was straight away from the comprehensive tests held by PT all over the PT centres**

Tuesday's bungling in Delhi airport once again confirmed that its monopolistic position has made Indian Airlines as callous as it is ineffective. To recapitulate a disgraceful sequence, IC-764 bound for Calcutta and scheduled to leave Delhi at 4:40 pm, was suddenly and inexplicably cancelled without a word of explanation or apology. This is of course an increasingly common occurrence nowadays with Indian Airlines, but the ingenious euphemism chosen this time was that IC-764 has been "merged" with IC-264, due to leave Delhi at 8:30 p.m., and that all passengers booked on the former were automatically guaranteed seats on the latter. It should be axiomatic by now that such assurances are meant to be ignored; but faith in official promises dies hard and, on the whole, Indians still treat authority with far more respect than it deserves. The public will probably continue to do so even after Tuesday evening's nightmare experience when officials at the airport check-in-counter for Calcutta brushed aside all previous undertakings and flatly announced that IC-264 could not accommodate a large number of the passengers who had been booked on IC-764 and were waiting to go to Calcutta. The stranded men, women and children were then advised to have their tickets rebooked for the following morning's IC-401, but naturally, without a word of apology for the delay and inconvenience or any suggestion that Indian Airlines should accept responsibility for the extra night's boarding and lodging in Delhi.

This churlishness was nothing, however, to the fraud that the Airlines seems to have practised on at least some passengers. When some of the people who had been shunted from IC-764 to 264 and then told to come back the next day asked for endorsements for Wednesday morning's IC-401, the Duty Officer at Delhi airport's departure lounge readily obliged, writing "O.K." on the tickets and signing his name as Mr. X. But, for reasons that can only be guessed at, he omitted to punch the relevant entry into the computer, so that the endorsement was worthless and passengers who held what looked like trebly confirmed (for IC-764, 264 and 401) tickets were again given the brush-off on Wednesday morning. As it happens, that particular Delhi-Calcutta flight was not full, so all or, at least, most-stranded passengers were finally taken aboard, but not before acrimonious argument and uproarious confusion, with no one prepared to accept the chain of half-truths and downright falsehoods that the airline personnel trotted out, often with extreme rudeness, when they bothered to say anything at all. No doubt, Indian Airlines will now produce a detailed reply to explain away all complaints. But such excuses long ago ceased to command credence. Nor would a genuine explanation prove or solve anything. The point is that a bureaucratic monopoly like Indian Airlines enjoys is unworthy of the country : and if the new Government really wishes to serve the flying public better, it will allow some form of competition. Nothing else will save passengers from this kind of harassment.

1. Why did the Indian Airlines cancel IC-764 flight ?

- (1) Because there was technical fault. (2) Because the pilots refused to fly the plane.  
(3) Because the weather was bad. (4) No explanation was given.

**Sol:** The third line in the passage tells that the flight was cancelled without any explanations.No explanation for the cancellation of IC-764 flight is given, hence option (4) is the correct one. **Ans.(4)**

2. The author feels that :

- (1) IA needs more aircraft to handle the situation efficiently.  
(2) all the events happened due to mismanagement and callousness of the IA management.  
(3) IA runs the flight at very low price.  
(4) All the above are true.

**Sol:** The monopoly enjoyed by the Indian Airlines resulted in gross mismanagement. The officials/personnel were callous towards the public. Option (2) best depicts this and is appropriate. The rest of the options are untrue. **Ans.(2)**

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3. *The author feels that Mr. X, the duty officer at Delhi airport :*

- (1) purposely omitted to punch the relevant entry into the computer, though he signed, to escape the situation.
- (2) did not know the actual procedure of endorsing an air ticket.
- (3) was not authorised for such endorsement in the ticket hence it had no value.
- (4) followed the wrong procedure, since only the airport manager had the authority to endorse the ticket.

**Sol:** It can be inferred from the last paragraph that the duty officer, Mr. X, willfully omitted to punch the relevant entry into the computer, knowing fully well that the ticket would be invalid owing to faulty endorsement. He would have done this to escape the ire of the passengers. Option (1) best represents this. The remaining options are inappropriate. **Ans.(1)**

4. *The passengers of the Flight No. IC - 764 :*

- (1) were all gentle and polite and they did not utter a single word against IA's mismanagement.
- (2) were able to board the flight on Wednesday after severe altercation with the IA authority for their utter mismanagement, rudeness in behaviour and lies told.
- (3) cancelled their air ticket and finally travelled by train.
- (4) None of the above.

**Sol:** The last paragraph states and upholds option (2) as the appropriate answer. The remaining options are not proper. **Ans.(2)**

5. *"Bureaucratic monopoly... is unworthy of this country". Why has the author commented like this ?*

- (1) Because of the mismanagement that often occurs in monopolistic organisation like IA.
- (2) Because he feels that people work only under compulsion and that cannot be exercised in a government organisation.
- (3) Our countrymen are very lazy and do not like to work hard.
- (4) None of the above.

**Sol:** Obviously the answer is option (1). This can be inferred from the passage. The remaining options are improper, as they are not stated in the passage. Option (4) is wrong. **Ans.(1)**

6. *"This churlishness was nothing however to the fraud that the Airlines seems to have practised on at least some passengers". What does the author mean saying "this churlishness" ?*

- (1) The abrupt cancellation of flight.
- (2) The absence of duty officer after announcing the cancellation of the flight.
- (3) The assurances given are meant to be ignored.
- (4) Harassment of the passengers without a word of apology for delay and inconvenience caused.

**Sol:** Option (4) is the best reference to the given expression. The remaining options are not that accurate when compared with option (4). **Ans.(4)**.

7. *The author is of the opinion that :*

- (1) to stop such mismanagement, government should bring some competition among the organisations.
- (2) the explanation given by IA authority for such incidents has ceased to command credence long ago.
- (3) monopolistic position has made IA inefficient and callous.
- (4) All the above are true.

**Sol:** Each of the options (1), (2) and (3) find a place in the passage and satisfactorily answers the question. However option (4), a combination of options (1), (2) and (3), is the best one **Ans.(4)**.

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8. How many times the passengers of flight IC-764 were denied flight opportunity ?

- (1) Once
- (2) Twice
- (3) Thrice
- (4) More than three times

**Sol:** Obviously the correct option is (3). The 4:40 PM flight on Tuesday was rescheduled to 8:30 PM flight on Tuesday was further rescheduled for Wednesday morning. That makes the count three. The remaining options are incorrect.

**Ans. (3).**



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## Numerical Aptitude

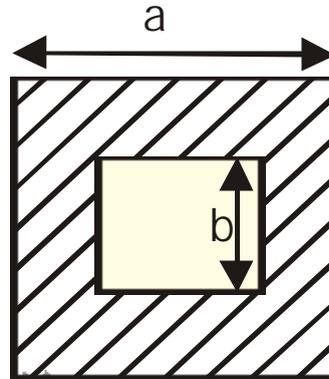
**Directions for Q.1 to 50 :** For the following questions choose the correct option .

1. What is 5% of 15 ?  
 (1) 0.65 (2) 0.80  
 (3) 0.75 (4) 7.5

**Sol: Ans (3)**

2. In the adjoining figure the ratio of the larger square to that of the shaded area is :

- (1)  $\frac{1}{1 - \frac{b^2}{a^2}}$   
 (2)  $1 - \frac{b^2}{a^2}$   
 (3)  $\frac{1}{1 - \frac{a^2}{b^2}}$   
 (4)  $1 - \frac{a^2}{b^2}$



**Sol: Ans.(1)**

**Directions for Q. 3 to 5 :** Read the following information carefully and answer the questions that follow.

The values of x, y, and z are 10, 5 and 10. If x is increased by 5%, y is increased by 3% and z is increased by 2.5% then:

3.  $x + y + z$  is increased by :  
 (1) 3.4% (2) 3.6%  
 (3) 4.3% (4) 4.6%

**Sol:** After the increments, the values of x, y, and z are 10.5%, 5.15% and 10.25% respectively. Hence the percentage increase in  $x + y + z$  will be  $(25.9 - 25) / 25 = 3.6\%$  **Ans (2)**.

4.  $xyz$  will increase by :  
 (1) 3% (2) 3.7%  
 (3) 9.7% (4) 10.8%

**Sol:**  $xyz$  before the respective increments is 500, After increments the value of  $xyz$  is 554.26. Hence the percentage increase is 10.8 **Ans (4)**.

5. If the values of x, y and z are 100, 50, 200 respectively then  $(x \times y) / z$  after the respective increments will be :  
 (1) 5.5% (2) 7.5%  
 (3) 3.5% (4) 10.5%

**Sol:** The values of x, y, and z after respective increments will be 105%, 51.5% and 205%. Hence the value of  $(x \times y) / z = 26.37$ . Initial value of  $(x \times y) / z = 25$ . Therefore the net percentage increase is 5.5 **Ans (1)**.

**Directions for Q.6 to 9 :** Read the following information carefully and answer the questions that follow.

If  $f(x,y) = (x - y)^2$  and  $g(x,y) = \frac{(x+y)^2 - (x-y)^2}{x^2}$  then :

6. What is the value of  $f(7,4)$  and  $g(5,3)$  ?  
 (1)  $12/5, 9$  (2) 3,4  
 (3) 9,  $12/5$  (4) 4,5

**Sol:**  $f(7,4) = 9$  and  $g(5,3) = 12/5$  **Ans (3)**.

Three more questions were based on the same functions.

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10. Three numbers are in the ratio of 3:2:1 and their sum is 18. The least number is :

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

**Sol:**  $3x+2x+x = 18$  or  $x = 3$ ; hence the least of all numbers is 3 **Ans (2)**.

11. The difference between the father's age and the son's age is 22 years. 6 years ago the son's age was half the age of father 12 years ago. What is the age of the father?

- (1) 44 years (2) 36 years  
(3) 23 years (4) 60 years

**Sol:** Let the father's age be F and the son's age be S. As per the given condition  $F-S = 22$ ....(1). Also  $(S-6) = 0.5 \times (F-12)$ ....(2). Substituting (1) in (2)  $(S-6) = 0.5 (22 + S - 12)$ ,  $\Rightarrow S = 22$  years or Father's age  $F = 44$  years. **Ans (1)**.

12. There are twelve furnitures to be brought out of which some of them are tables and some of them chairs. The price of the chair is Rs.50 and the price of a table is Rs.40. If a total investment of Rs.500 is to be made, then the number of chairs and tables are :

- (1) 2, 10 (2) 8,4  
(3) 6, (4) 5,7

**Sol:** Let the number of tables be T and the number of chairs be C.  $\therefore T + C = 12$ ....(1),  $40T + 50C = 500$ ....(2). Substituting equation (1) in equation (2)  $T = 12 - C \Rightarrow 40(12 - C) + 50C = 500 \Rightarrow 480 - 40C + 50C = 500$  or  $C = 2$ . The number of chairs to be bought are 2, and the number of tables to be bought are 10. **Ans (1)**

13. The sum of the digits of a two digit number is 13. If the number is reversed, the difference between the number so formed and the original number is 27. The number is:

- (1) 85 (2) 49  
(3) 36 (4) 94

**Sol:**  $X + Y = 13$ . The original number is  $10X + Y$  the number formed by reversing the digit is  $10Y + X$ .  $(10X + Y) - (10Y + X) = 27 \Rightarrow 9X - 9Y = 27 \Rightarrow X - Y = 3$ .  $X + Y = 13$ .  $\therefore X = 8, Y = 5$ . **Ans (1)**

14. If the average weight of 10 boys is 50 kgs and the average height of 8 boys is 68 kgs, then the average height of all the boys taken together will be :

- (1) 45 kg (2) 36 kg  
(3) 58 kg (4) 25 kg

**Sol:** Average weight of 10 boys is 50 kgs. Therefore total weight = 500 kgs. Average weight of 8 boys is 68 kgs.

Therefore total weight = 544 kgs. Hence the average of all the boys will be  $\Rightarrow \frac{1044}{18} = 58$ kgs. **Ans.(3)**

15. How many revolutions will a circle of radius 35 cm make to travel a distance of 11 kms.

- (1) 4200 (2) 6000  
(3) 1200 (4) 5000

**Sol:** In one revolutions the distance travelled =  $2\pi r$ .  $\Rightarrow 2 \times \frac{22}{7} \times 0.35 = 2.2$ m. To travel a distance of 11000 m, the circle

has to make  $\frac{11000}{2.2} = 5000$  revolutions. **Ans(4)**

**Directions :** Each of the given question is followed by two statements, (A) and (B). Answer each question using the following instructions. Mark your answer as :

- (1) if statement (A) alone is sufficient to solve the question, but statement (B) alone is not.
- (2) if statement (B) alone is sufficient to solve the question, but statement (A) alone is not.
- (3) if neither statement (A) nor statement (B) is individually sufficient to solve the question, but a combination of both is sufficient to solve the question.
- (4) if both the statements taken together are not sufficient and more information is required to solve the question.

13. What is the value of X and Y ?

- I.  $X + 2Y = 18$   
II.  $3X + 8Y = 21$

**Sol:** Since there are two variables hence both the statements are necessary to find the value of X and Y. **Ans(3)**

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## General Knowledge

**Directions for Q. 1 to 20 :** For the following questions, choose the correct option.

1. What will be the venue for the FIFA world cup to be held in 2006 ?
2. Which life saving drug was invented by 'Alexander Fleming' ?
3. Who was the president of United States during the Vietnam war ?
4. In which year was the United Nations formed ?
5. Who was the first secretary general of United Nations ?
6. What was common between Zia-ul-haq and junior John F. Kennedy ?
7. Which statement is true about the 1<sup>st</sup> world war ?



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### Overall analysis

The test can be rated as a easy one. The G.K section was an easier one, and most of the questions were based on current events . The passages on RC were easy and the questions were direct, **one of the passages was directly from the PT material [ CT # 34].**

The Mathematics and LR section was very manageable.

Thus, overall we expect that the average attempts should be somewhere near 150+ . We will expect students, working with an accuracy of 85-90% to get a call.



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