

## IIFT Entrance Test January 02, 2005

**We are very pleased to present you the detailed analysis of IIFT entrance test held on January 02, 2005 on various centres all over India. Like last year this year also the test comprised 196 questions, to be solved in a time span of 120 minutes. No sectional time limits were mentioned. There was negative marking of 20% of each questions weightage for the wrong answer. Thus, while solving the paper students had to concentrate more on accuracy.**

### Bird's eye view :

<b>Total Number of Questions</b>	:	196
<b>Total Time</b>	:	120 minutes.
<b>The Marking Scheme</b>	:	0.60 mark for each correct answer of section I. 0.55 mark for each correct answer of section II. 0.40 mark for each correct answer of section III. 0.60 mark for each correct answer of section IV. There was negative marking 1/5 of each question's weight.
<b>Number of options</b>	:	Five

### Sectional Break-up

Section No.	Topic	Number of Questions	Total Marks
I	Data Interpretation + Logical Reasoning + Critical Reasoning	48	$48 \times 0.6 = 28.8$
II	Reading Comprehension + English Usage	50	$50 \times 0.55 = 27.5$
III	General Knowledge	50	$50 \times 0.4 = 20$
IV	Mathematical Aptitude	48	$48 \times 0.6 = 28.8$



Disclaimer: All these questions have been memorised by PT students. We are merely reproducing a few of them here in fragments to ensure that the huge community of students eagerly waiting to see an objective comparison of their performance gets the right picture.

# Detailed Analysis

In the following pages we have provided some of the actual test questions with their solutions for your reference.

## SECTION I

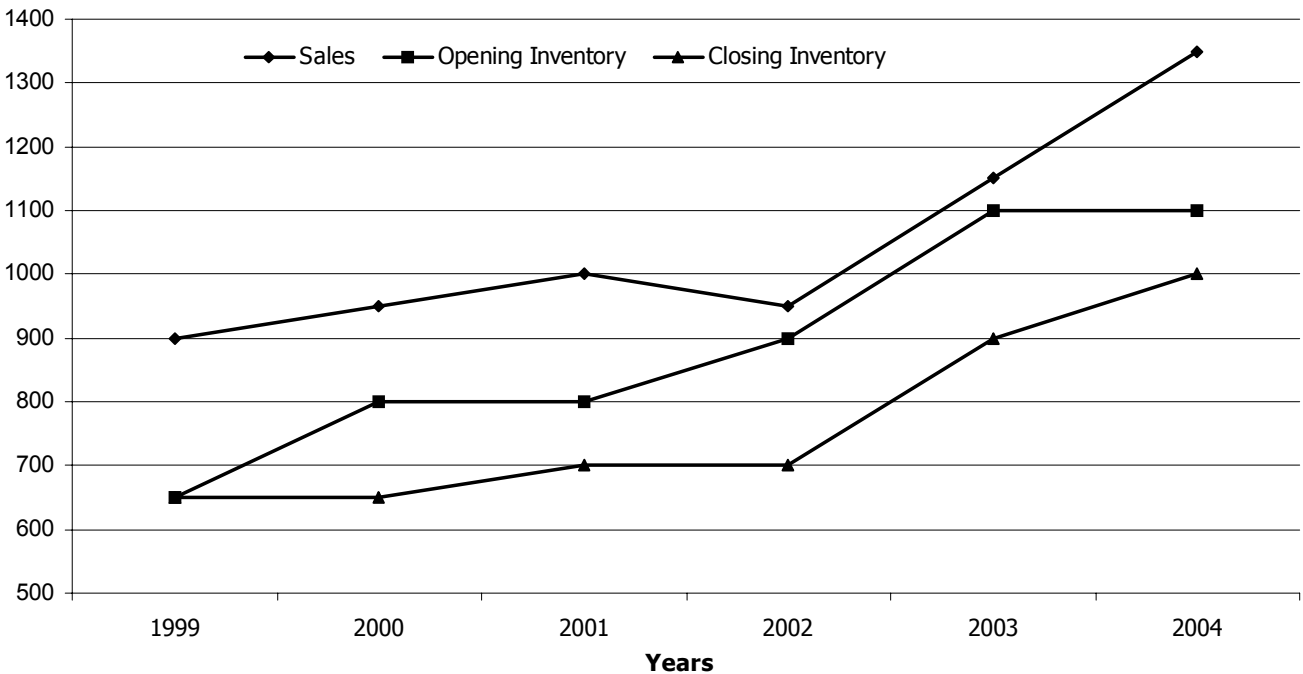
### DATA INTERPRETATION + LOGICAL REASONING + CRITICAL REASONING

There were total 48 questions in this section. The questions were on **Data Interpretation, Logical Reasoning** and **Critical Reasoning**. The detailed break-up of questions in this section is as follows

Topics	Number of Questions	Level of Difficulty
<b>Logical Reasoning</b>		
Coding and Decoding	3	Easy
Data Arrangement + Caselete based	15	Easy
Cube related	3	Moderate
<b>Data Interpretation</b>		
Bar Diagram	3	Moderate
Table	Two sets of total 10 question	Moderate
Critical Reasoning (Situation based)	6	Moderate

We are reproducing some of the questions based on memory which were asked in this section

**DIRECTIONS :** Following graph shows the TWISTER MANUFACTURING LTD., sales, opening inventory and closing inventory for the last 6 years.



$$\text{Sales} = \text{Opening Inventory} + \text{Production} - \text{Closing Inventory}$$

1. What is the percentage growth in average annual sales of the last 3 years versus average sales of first 4 years?
- (1) 21%                      (2) 19%                      (3) 24%                      (4) 23%
- (5) None of the above

Sol. **Ans.(1)**

2. What is the difference between the average closing inventory and the average opening inventory over the given period?  
 (1) 57 (2) 54 (3) 59 (4) 53  
 (5) None of the above

Sol. **Ans.(5)**

3. If production figures are plotted on the graph, then the shape of the production line  
 (1) forms a linear trend (2) resembles more like the sales curve  
 (3) resembles more like the opening inventory curve (4) resembles more like the closing inventory curve  
 (5) None of the above

Sol. **Ans.(2)**

## SECTION II

### LANGUAGE COMPREHENSION

In the **Language Comprehension** section there were 30 questions on **Reading Comprehension** based on 5 passages. Rest of this section were on **English Usage**. The detailed break-up of this section is as follows

Topics		Number of Questions	Level of Difficulty
<b>Reading Comprehension</b>			
Passage I	Dispute settlement at WTO	6	Easy to Moderate
Passage II	Exsys CPRVIP	6	
Passage III	Media	6	
Passage IV	English Literature	6	
Passage V	Tamilahan	6	
<b>English Usage</b>			
Verbal Analogies		3	Moderate
Synonyms		4	Moderate
Antonyms		4	Moderate
Parajumble		4	Moderate
Define the italicized words		3	
Fill in the blanks		2	Easy

We are producing some of the questions as follows

**DIRECTIONS :** Read the following information carefully and answer the questions that follow.

"All media are extensions of some human faculty - psychic or physical. The wheel is an extension of the foot - the book is an extension of the eye - clothing an extension of the skin. Media by altering the environment, evoke in us unique ratios of sense perceptions. The extension of any other sense alters the way we think and act ` the way we perceive the world when these ratios change, men changes, "says Marshall Mclahom, in 1964 in his book – "understanding media". Today, Internet especially that portion known as the world wide web, has the potential to change virtually the way businesses interact with their customers, the web frees customers from their traditionally passive role as receivers of marketing communications, gives them much greater control over the info sea-changed acquisition process and allows them to become altime participant in the marketing process(..... so on)

61. How do you define "Flow" in hypermedia CMEs?
62. What is the meaning of 'repeat consumption behaviour' in the above passage?
63. What is hypermedia?
- (1) It is a multimedia with features of audio, visual, graphics, text, images etc.
  - (2) It is a marriage of multimedia and hypertext.
  - (3) It is a marriage of multimedia and virtual reality
  - (4) It is a 3-D environment with large text and graphics scattered all over.
  - (5) None of these
64. Depending on the Flow concept literature as mentioned in the passage, what are "High-Flow" segment and "Low-Flow" segment consumers?
65. What is/are the factors on which Flow depends?
- (1) Telepresence (2) Hypertext (3) Machine interactivity (4) Both (1) and (3)
  - (5) All (1), (2) and (3)

#### Passage IV

At the time Jane Austen's novels were published between 1811 and 1818 – English literature was not part of any academic curriculum. In addition, fiction was under strenuous attack. Certain religious and political groups felt novels had the power to make so called immoral characters so interesting that young readers would identify with them; these groups also considered novels to be of little practical use. Even Coleridge, certainly no literary reactionary, spoke for many when he asserted that "novel-reading occasions the destruction of mind's powers."

These attitudes towards novels help explain why Austen received little attention from early nineteenth-century literary critics. (In any case, a novelist published anonymously, as Austen was, would not be likely to receive much critical attention.) The literary response that was accorded to her, however, was often as incisive as twentieth-century criticism. In his attack in 1816 on novelistic portrayals "outside of ordinary experience," for example, Scott made an insightful remark about the merits of Austen's fiction. "Her novels", wrote Scott, "resent to the reader an accurate and exact picture of ordinary everyday people and places, reminiscent the reader an accurate and exact picture of ordinary everyday people and places, reminiscent of seventeenth-century Flemish painting". Scott did not use the word "realism," but he undoubtedly used a standard of realistic probability in judging novels. The critic, Whately....

#### **DIRECTIONS :** Verbal Analogies

66. NONGENEARIAN : CONGEUITY  
68. HYPOSENSITIZE : SENSITIVE

67. POLEVAULTING : DECATHLON

*Success Simplified !*

#### **DIRECTIONS :** Synonyms

69. EVSATZ      70. MENAGE      71. VARIEGATED      72. PERSIFLAGE

#### **DIRECTIONS :** Antonyms

73. ENNUD      74. CHARGIN      75. SANGUIEN      76. PERFID

**SECTION III**  
**GENERAL KNOWLEDGE**

The third sections was on **General Knowledge**. There were 50 questions in this section. We are producing some of the questions as follows

99. Which of the following countries is not a member of EU  
(1) Switzerland (2) Finland (3) Czee Republic (3) Australia  
(5) None of the above
100. which of these is not done through intagio printing on indian paper money?  
(1) The water mark (2) Portrait of Mahatma Gandhi  
(3) RBI Governer signature (4) Gurantee and promis clause  
(5) None of the above
101. India first Bio-Diesel plants is being set up in  
(1) Coimbotore, Tamil Nadu (2) Kakinada, Andhra Pradesh  
(3) Mysore, Karnataka (4) Aligarh, U.P.  
(5) None of the above
102. Who is the world's largest exporter of virtual water  
(1) India (2) Australia (3) USA (4) Germany  
(5) None of the above
103. Once the river Brahamputra enters from India to Bangladesh, it becomes  
(1) Padma (2) Brahamputra (3) Jamuna (4) Meghna  
(5) None of the above
104. ATYCHIPHOBIA is the fear of  
(1) flowers (2) failure (3) crowds (4) clouds  
(5) None of the above
105. The World Bank on Aug. 26, 2004 announcet a big step up in its lending plan for India. Beginning 2005, it will land India  
(1) upto 2 billion US \$ (2) upto 4.5 billion US \$ (3) upto 3 billion US \$ (4) upto 4 billion US \$  
(5) None of the above
106. Which does not come under Millennium Development Goals of UN  
(1) Eradicate extreme poverty and Hunger, achieve by universal primary education  
(2) Promote gender equality and empower women reduce child mortality.  
(3) combat HIV/AIDS malaria and other disease  
(4) ....  
(5) None of the above

**SECTION IV**  
**MATHEMATICAL ABILITY**

There were 50 questions were on **Mathematical Ability**. The question were on Maths topic like Algebra, Averages, Boats and Stream, Numerical Ability, Clocks, Complex numbers, Co-ordinate geometry, Equations, Geometry, Numbers, Permutations & Combinations, Probability, Profit & Loss, Ratio, Sequence, Trigonometry, Time, Speed and Distance, Vectors. We are producing some of the questions as follows

153.  $(16.08)^{1/4} - (1.025)^{-1/3} =$   
(1) 1.110 (2) 1.210 (3) 1.010 (4) 1.090  
(5) None of the above

Sol. **Ans.(5)**

154.  $(0.625 \times 0.0729 \times 28.9)/(0.0081 \times 0.025 \times 17)$

- (1) 382.5 (2) 372.5 (3) 362.5 (4) 352.5  
 (5) None of the above

Sol. **Ans.(1)**

155.  $\{(10.013)^3 + (0.000000343)\}/\{(0.013)^2 - 0.000091 + 0.000049\}$

- (1) 0.020 (2) 0.002 (3) 0.023 (4) 0.021  
 (5) None of the above

Sol. **Ans.(5)**

156. Given  $z = x^2/y$ , if  $x$  and  $y$  are both increased by 10%, then  $z$  is

- (1) unchanged (2) increased by 10% (3) increased by 1% (4) increased by 20%  
 (5) None of the above

Sol. **Ans.(2)**

157. The area bounded by the region  $x^2 + y^2 = 1$ ,  $|x|$  and  $|y|=1$  is

- (1) 2 (2) 4 (3)  $\pi$  (4)  $4\pi$   
 (5) None of the above

Sol. **Ans.(3)**

158. The value of  $0.\overline{136}$  is

- (1)  $136/1000$  (2)  $136/999$  (3)  $136/990$  (4)  $3/20$   
 (5) None of the above

Sol. **Ans.(2)**

159. If the distance of the point  $(x, y)$  from  $A(a, 0)$  be  $a + x$ , then  $y$  is

- (1)  $2ax$  (2)  $4ax$  (3)  $8ax$  (4)  $6ax$   
 (5) None of the above

Sol. **Ans.(5)**

160. If  $AB$  is a diameter of a circle and  $C$  is any point in the circumference of the circle then

- (1) the perimeter of  $\triangle ABC$  is minimum when it is isosceles (2) the perimeter of  $\triangle ABC$  when it is isosceles  
 (3) the area of  $\triangle ABC$  is maximum when it is isosceles (4) ....  
 (5) None of the above

Sol. **Ans.(3)**

161. In the  $x$ - $y$  plane,  $9x^2 + 4y^2 - 18x - 16y < 11$  represents

- (1) the interior of an ellipse (2) a hyperbola (3) the exterior of an ellipse (4) exterior of a circle  
 (5) None of the above

Sol. **Ans.(1)**

162. Consider the following statements :

**Assertion (A):** the result  $\sec x > \tan x$  for every  $x$  which is a real number, is true.

**Reason (R):**  $\sec^2 x = 1 + \tan^2 x$  is identically true for every  $x$ .

Of these Statements,

- (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) Both A and R are false  
 (5) A is false but R is true

Sol. **Ans.(5)**

163. Consider the tangent table, given below:

	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'2'3'4'5'
66°	2.246	257	267	278	289	300	311	322	333	344	2 4 6 79

Based on the above extract from the tangent table and the fact that  $\tan \alpha = 2.340$ , then  $\alpha =$

- (1)  $66^\circ 48'$  (2)  $66^\circ 44'$  (3)  $66^\circ 50'$  (4)  $66^\circ 52'$   
 (5) None of the above

Sol. **Ans.(4)**

164. The length of tangent to the circle  $3x^2 + 3y^2 - 7x - 6y = 12$  from the point  $(6, -7)$  is

- (1) 19 units (2) 13 units (3) 5 units (4) 10 units  
 (5) None of the above

Sol. **Ans.(5)**

165. The pair of rational number lying between  $\frac{1}{4}$  and  $\frac{3}{4}$  is

- (1)  $\frac{262}{1000}, \frac{752}{1000}$  (2)  $\frac{63}{250}, \frac{187}{250}$  (3)  $\frac{13}{50}, \frac{264}{350}$  (4)  $\frac{9}{40}, \frac{31}{41}$   
 (5) None of the above

Sol. **Ans.(2)**

166. A milkman saves milk in two vessels, a cuboidal and the other a cylindrical. The capacity of the cuboidal vessel is 20 litres more than the cylindrical one. When 30 litres of milk is drawn from each of the two full vessels, the amount left in the cuboidal vessel is twice that left in the cylindrical vessel. The capacity (in litres) of the cuboidal vessel is

- (1) 30 (2) 70 (3) 130 (4) 50  
 (5) None of the above

Sol. **Ans.(2)**

167. If A, B and C are three consecutive points on the arc of a semi-circle such that the angles subtended by the chords AB and AC at the centre of the circle are 60 and 100 degrees respectively. The  $\angle BAC$  is

- (1) 30 degrees (2) 50 degrees (3) 25 degrees (4) 15 degrees  
 (5) None of the above

Sol. **Ans.(5)**

168. If  $P = \sin^2 20^\circ + \sin^2 40^\circ + \sin^2 50^\circ + \sin^2 70^\circ$ , then

- (1)  $0 < P < 1$  (2)  $1 < P < 1.5$  (3)  $1.5 < P < 2$  (4)  $P = 2$   
 (5) None of the above

Sol. **Ans.(4)**

169. Consider the system of linear equation,  $kx + y + z = 1$ ,  $x + ky + z = k$ ,  $x + y + kz = k^3$ . the value of 'k' for which this system has a real solution are

- (1)  $k \neq 1$  and  $k \neq -2$  (2)  $k \neq -1$  and  $k \neq 2$  (3)  $k \neq 1$  and  $k \neq -2$  (4)  $k \neq 1$  and  $k \neq 2$   
 (5) None of the above

Sol. **Ans.(5)**

170.  $\frac{\sin 300^\circ \tan 330^\circ \sec 420^\circ}{\cot 135^\circ \cos 210^\circ \operatorname{cosec} 315^\circ} =$

- (1)  $\frac{\sqrt{3}}{2}$  (2)  $-\frac{\sqrt{3}}{2}$  (3)  $-\frac{\sqrt{2}}{3}$  (4)  $\frac{\sqrt{2}}{3}$   
 (5) None of the above

Sol. **Ans.(3)**

171. From a square piece of card board measuring  $2a$  on each side of box with no top is to be formed by cutting out from each corner a square with sides  $b$  and bending up the flaps. The value of  $b$  for which the box has the greater volume is
- (1)  $b = a/5$                       (2)  $b = a/4$                       (3)  $b = a/3$                       (4)  $b = a/2$   
 (5) None of the above

Sol. **Ans.(3)**

172.  $\cos 15^\circ \cot 16^\circ \cot 17^\circ \dots \cot 73^\circ \cot 74^\circ \cot 75^\circ$  is

173.  $\frac{1}{\sqrt{4x+1}} \left[ \frac{2+\sqrt{4x+1}}{2} \right] \left[ \frac{2+\sqrt{4x+1}}{2} \right]$  is polynomial of degree

174. If the letters of the word REGULATIONS are arranged at random, the chance that there will be exactly four letters between R and E is

175.  $\frac{(3-2\sqrt{2})(\sqrt{2}-1) + (\sqrt{3}+\sqrt{2})(5+2\sqrt{6})}{(\sqrt{3}+2\sqrt{2}-1)(-2-2\sqrt{2}-2\sqrt{6})} + \frac{2\sqrt{3}+2\sqrt{2}}{\sqrt{3}+2\sqrt{2}-1} + \frac{\sqrt{6}-\sqrt{3}+2-\sqrt{2}}{2+2\sqrt{2}+2\sqrt{6}} =$

