

MANAGEMENT ENTRANCE TEST-2010 QUESTION BOOKLET

DATA INTERPRETATION AND PROBLEM SOLVING

Tables 1 and 2 provide data on FDI inflow to India vis-à-vis other developing countries. Based on this, answer questions 1 to 4.

Table-1:
FDI to India

Year	Amount (\$ million)
1991	103
1992	133
1993	557
1994	4235
1995	4807
1996	4805
1997	6153
1998	5390
1999	2412
2000	5191
2001	5102

Table-2:
FDI to Other developing Countries

Year	Amount (\$ million)
1991	35700
1992	47100
1993	66600
1994	90000
1995	106800
1996	130800
1997	172500
1998	178300
1999	184400
2000	166700
2001	168200

- Q.1 The number of years in which the growth rate of FDI inflows into India is higher than the growth rate of FDI to developing countries is :
 (a) 2 (b) 3 (c) 4 (d) 5
- Q.2 The highest percentage growth in FDI to India was for the year :
 (a) 1992 (b) 1993 (c) 1994 (d) 1995
- Q.3 The value of the highest percentage growth in FDI to India in any given year was closest to:
 (a) 760% (b) 660% (c) 680% (d) 710%
- Q.4 The highest percentage growth in FDI to developing countries for any given year was closest to:
 (a) 30% (b) 40% (c) 42% (d) 47%

Read the following table and answer the questions 5 to 9.

Highest marks and average marks obtained by students in different subjects over the years. The maximum marks in each subject is 100.

Subject	Commerce		Math		Science		English		Hindi	
Year	High	Avg	High	Avg	High	Avg	High	Avg	High	Avg
1997	72	63	90	85	71	54	70	50	60	46
1998	80	65	78	64	89	72	85	70	70	60
1999	85	74	85	69	86	73	75	65	60	50
2000	75	62	84	79	86	70	80	68	65	56
2001	70	59	88	81	81	67	82	72	70	50
2002	68	64	75	65	69	52	70	60	50	44

- Q.5 What was the average marks of all the five subjects on 2000?
 (a) 65 (b) 69 (c) 67 (d) 76.8
- Q.6 The average of the highest marks in Commerce from the year 1997 to 2002 was exactly equal to the highest marks in Maths in which of the following years?
 (a) 1997 (b) 2002 (c) 1999 (d) 1998
- Q.7 If there were 40 students in 2001, what was the total marks obtained by them in English?
 (a) 3280 (b) 2980 (c) 3600 (d) 2880
- Q.8 The difference between the highest marks and average marks in Science was minimum in which of the following years?
 (a) 1999 (b) 2000 (c) 2001 (d) 2002
- Q.9 If there were 75 students in 1997, what was the difference between total marks obtained by them in Commerce and that in Hindi?
 (a) 1265 (b) 1175 (c) 1285 (d) 1275
- Q.10 A and B can do a piece of work in 24 days. B and C together do it in 30 days. If A is twice as good a workman as 'C', in how many days will B alone do it?
 (a) 40 days (b) 20 days (c) 36 days (d) 38 days
- Q.11 The selling (market) price of a product fluctuates every day with market. Here is a chart to show the market price and number of products sold in consecutive five days.

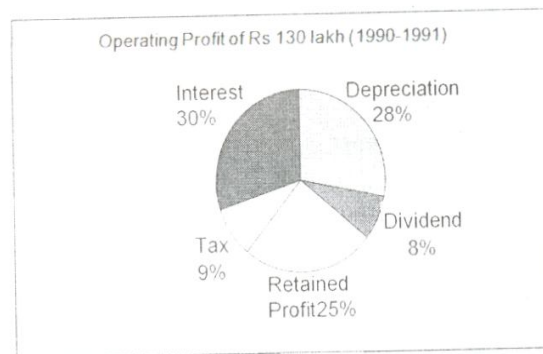
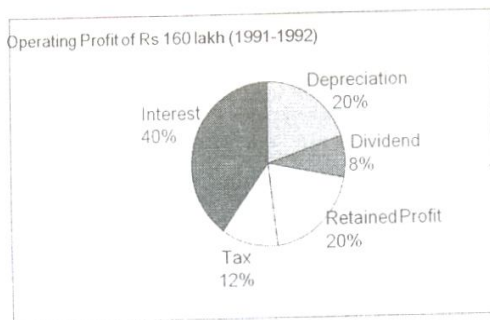
Date	No. of Products Sold	Price
10 July	100	51
11 July	200	45
12 July	150	35
13 July	300	30
14 July	180	55

If cost price is Rs. 25 each, the seller will maximum profit on :

- (a) 10 July (b) 14 July (c) 12 July (d) 11 July
- Q.12 The average of three numbers is 77. The first number is twice the second and the second number is twice the third. The first number is :
 (a) 33 (b) 66 (c) 77 (d) 132
- Q.13 Three of the following are alike in a certain way and hence form a group. Which of the following is different from the group?
 (a) 40 (b) 4 (c) 14 (d) 85
- Q.14 In an election for a corporation seat, there are two candidates only. A total of 9791 votes were polled. 116 votes were declared invalid. The successful candidate got 5 votes for every 4 votes his opponent had. By what margin did the successful candidate win?
 (a) 116 (b) 1075 (c) 925 (d) 189
- Q.15 There are five friends A, B, C, D and E. A is shorter than B but taller than E. C is tallest. D is little shorter than B and little taller than A. If they stand in the order of their heights, who will be in the middle?
 (a) B (b) E (c) A (d) D
- Q.16 When two dice are thrown simultaneously, what is the probability that the sum of two numbers that turn up is equal to 9?
 (a) $1/9$ (b) $1/18$ (c) $1/6$ (d) $5/36$
- Q.17 Consider a sequence 1,3,5,7,9...till the 17th term. If the average of first nine terms of the sequence is 'x' then what is the average of the last 8 terms of the sequence?
 (a) $x+17$ (b) $x+15$ (c) $x+9$ (d) $x+10$

- Q.18 A passenger tries to calculate the speed of his train by counting poles. If he counts 16 of them in one minute, find the speed of the train if the poles are placed 40 m apart.
 (a) 72km/hour (b) 39 km/hour (c) 36 km/hour (d) 54 km/hour
- Q.19 The average age of a husband and wife was 22 years when they were married 5 years back. What is the present average age of the family if they have a three year old child.
 (a) 19 years (b) 25 years (c) 27 years (d) 28 years
- Q.20 The sum of numerator and denominator of a perfect fraction is 4. The fraction is:
 (a) $\frac{2}{2}$ (b) $\frac{3}{1}$ (c) $\frac{1}{3}$ (d) $\frac{1}{4}$
- Q.21 A can do a work in 18 days, B in 27 days and C in 36 days. They start working together and C continues to work till the work is finished. A leaving off one day and B 4 days before its completion. In how many days will the work be finished?
 (a) 20 days (b) 15 days (c) 10 days (d) 12 days

Answer questions 22 to 25 based on the following pie charts:



- Q.22 The interest burden in 1991-92 was higher than that in 1990-91 by:
 (a) 50% (b) Rs. 25 lacs (c) 90% (d) Rs. 41 lacs
- Q.23 If on an average 20% of rate of interest was charged on borrowed funds, then total borrowed funds used by the company in the given two years amounted to:
 (a) Rs. 221 lacs (b) Rs. 195 lacs (c) Rs. 368 lacs (d) Rs. 515 lacs
- Q.24 The retained profit in 1991-92 as compared to that in 1990-91 was :
 (a) higher by 2.5% (b) higher by 1.5% (c) lower by 2.5% (d) lower by 1.5%
- Q.25 The equity base of these companies remained unchanged. Then the total dividend earning by the shareholders in 1991-92 is:
 (a) Rs. 104 lacs (b) Rs. 9 lacs (c) Rs. 12.8 lacs (d) Rs. 15.6 lacs
- Q.26 $P = 441 \times 484 \times 529 \times 576 \times 625$. The total number of factors of P is
 (a) 607 (b) 5706 (c) 1024 (d) 6075
- Q.27 $2! + 4! + 6! + 8! + 10! + \dots + 100!$ when divided by 5, would leave remainder
 (a) 0 (b) 1 (c) 2 (d) 3
- Q.28 The average of four consecutive even numbers is 27. The largest of these numbers is
 (a) 24 (b) 30 (c) 26 (d) 28
- Q.29 Convert 1153 from base 10 to base 15
 (a) 51D (b) 61E (c) 51C (d) 61C
- Q.30 What is the last digit of the number 23457^{674521} ?
 (a) 9 (b) 1 (c) 3 (d) 7

- Q.31 What must be subtracted from each term of the ratio 68: 49 so that it becomes 3: 4?
 (a) -125 (b) 0 (c) 5 (d) 125
- Q.32 What will be the remainder when $25^{256} + 26$ is divided by 24?
 (a) 1 (b) 2 (c) 3 (d) 0
- Q.33 What will be the remainder when 13^{36} is divided by 2196?
 (a) 0 (b) 1 (c) 12 (d) 2195
- Q.34 The average of 2, 7, 6 and x is 5, and average of 18, 1, 6, x and y is 10. Find y.
 (a) 10 (b) 15 (c) 20 (d) 30
- Q.35 Let p be a prime number greater than 3. Find the remainder when $p^2 + 17$ is divided by 12.
 (a) 6 (b) 1 (c) 0 (d) 8
- Q.36 How many zeros will there be at the end of the number N, if $N = 100! + 200!$?
 (a) 73 (b) 49 (c) 20 (d) 24
- Q.37 What is 90% of 90% of 100?
 (a) 80 (b) 81 (c) 100 (d) 90
- Q.38 The sum of first 45 natural numbers is
 (a) 2070 (b) 975 (c) 1280 (d) 1035
- Q.39 If the product of three consecutive integers is 720, then their sum is
 (a) 54 (b) 18 (c) 45 (d) 27
- Q.40 The sum of the squares of first ten natural numbers is
 (a) 261 (b) 385 (c) 402 (d) 502
- Q.41 The largest number in the following is
 (a) $(2 + 2 \times 2)^3$ (b) 2^5 (c) $[(2 + 2)^3]^{1/2}$ (d) $(2 \times 7 - 2)^2$
- Q.42 How many numbers are there between 500 and 600 in which 9 occurs only once?
 (a) 16 (b) 19 (c) 20 (d) 18
- Q.43 If the milk to water ratio in a mixture is 2:3, what is the milk percentage in the mixture?
 (a) 60% (b) 40% (c) 35% (d) 48%
- Q.44 $44N = 56^{56} + 56$. What would be the remainder when N is divided by 57?
 (a) 0 (b) 56 (c) 1 (d) 55
- Q.45 $26 \cdot 4^{61} + 4^{62} + 4^{63} + 4^{64} + 4^{65}$ is divisible by
 (a) 6 (b) 13 (c) 11 (d) 8
- Q.46 What is the smallest perfect square that is divisible by 8,9,10?
 (a) 6400 (b) 14641 (c) 3600 (d) 900
- Q.47 By what smallest number, 21600 must be multiplied or divided in order to make it a perfect square?
 (a) 6 (b) 5 (c) 12 (d) 8
- Q.48 $n^3 + 2n$ for any natural number is always a multiple of
 (a) 3 (b) 4 (c) 5 (d) 8
- Q.49 $4a56$ is a four digit number divisible by 33. What is the value of a?
 (a) 3 (b) 4 (c) 5 (d) 2
- Q.50 What is the highest power of 31 in 1000!?
 (a) 36 (b) 31 (c) 33 (d) 35

Verbal Ability and Reasoning

- Q.51 Hope is related to despair in the same way as life is related to _____
 (a) pain (b) emotions (c) rivalry (d) death
- Q.52 Gasoline is related to petroleum in the same way as sugar is related to _____
 (a) poverty (b) mines (c) molasses (d) wine

- Q.53 The relationship which exists between melon and vine also exists between _____.
 (a) Shrub and plant (b) coffee and leaves (c) berries and bush (d) ink and pen
- Q.54 Choose the word that belongs to the same group as beans, gram, pulses
 (a) wheat (b) peas (c) rice (d) barley
- Q.55 Which of the following is the same as Garbha, Kathak, Bhangra
 (a) Bihu (b) Baisakhi (c) Pongal (d) Bharatnatyam
- Q.56 The number which is similar to the given numbers 667, 752, 997 is
 (a) 852 (b) 863 (c) 324 (d) 642
- Q.57 Choose the odd one out
 (a) Pancreas (b) Thalamus (c) Adrenal (d) Pituitary
- Q.58 Choose the one which is different from the rest of three numbers
 (a) 284 (b) 566 (c) 326 (d) 128
- Q.59 Choose the one which is different from the rest of three words
 (a) Korea (b) Spain (c) Poland (d) Italy
- Q.60 In the series 11, 20, 29, 38 _____ which of the following will be the next number
 (a) 47 (b) 50 (c) 55 (d) 64
- Q.61 The wrong number in the series 17, 80, 255, 623 is
 (a) 17 (b) 255 (c) 623 (d) 80
- Q.62 Neeta pointing to an old man said "This man's son is my son's uncle". How is old man related to Neeta?
 (a) Brother (b) Uncle (c) Father (d) Grandfather
- Q.63 Dev has a brother Atul. Dev is the son of Chandan. Brijesh is Chandan's father. In terms of relationship, what is Atul of Brijesh ?
 (a) Uncle (b) Grandfather (c) Grandson (d) Brother
- Q.64 What canine is to dog, feline is to
 (a) ox (b) donkey (c) cow (d) tiger
- Q.65 What Labrador is to dog, tomato is to
 (a) vegetable (b) root (c) fruit (d) cereal
- Q.66 Choose the one which is different from the rest of three numbers
 (a) 468 (b) 902 (c) 731 (d) 335
- Q.67 Ramesh was unreasonable because he expected nothing short of _____ in his employees.
 (a) virtue (b) perfection (c) quality (d) merit
- Q.68 Ability is poor man's wealth. Conclusion drawn from this statement is
 (a) A poor man is always capable.
 (b) A poor man can earn wealth if he has ability.
 (c) An able man shall always be poor.
 (d) An able man shall always be wealthy.
- Q.69 Choose the most appropriate description about three given words, Venus, Mars, Mercury
 (a) They are the planets farthest to the earth.
 (b) They are the planets nearest to the earth.
 (c) They are highest mountain ranges.
 (d) They are big oceans on the earth.
- Q.70 Choose the most appropriate word which mentions the quality common to three given words, Coke, Diamond, Graphite
 (a) Pesticides (b) planets (c) fuels (d) Allotropes
- Q.71 In the series 4, 6, 12, 18, _____ which of the following will be the next number.
 (a) 36 (b) 38 (c) 34 (d) 32

- Q.72 One of these groups of letters is different from the other groups. Find the odd one out.
 (a) TAGN (b) BCFG (c) QHDK (d) MXYW
- Q.73 D and E are married couple. P and Q are brothers. P is the brother of D. How is Q related to E.
 (a) Brother (b) Cousin (c) Son (d) Brother-in-Law
- Q.74 In a certain code, MOTHER is written as PQXJJT. How is PAPER written in that code.
 (a) SCTGW (b) RETHU (c) FWQUE (d) KLYEU
- Q.75 If Calcutta is coded as 82589662 and Calicut is coded as 8251896 then Delhi can be coded as
 (a) 53421 (b) 73541 (c) 73531 (d) 53420

Based on your reading of the following passage, identify the correct option in question numbers 76 to 80:

Walls and wall building have played a very important role in Chinese culture. These people, from the dim mists of prehistory have been wall-conscious; from the Neolithic period – when ramparts of pounded earth were used – to the Communist Revolution, walls were an essential part of any village. Not only towns and villages; the houses and the temples within them were somehow walled, and the houses had no windows overlooking the street, thus giving the feeling of wandering around a huge maze. The name for “city” in Chinese (ch’eng) means wall, and over these walled cities, villages, houses and temples presides the god of walls and mounts, whose duties were, and still are, to protect and be responsible for the welfare of the inhabitants. Thus a great and extremely laborious task such as constructing a wall, which was supposed to run throughout the country, must not have seemed such an absurdity. However, it is indeed a common mistake to perceive the Great Wall as a single architectural structure, and it would also be erroneous to assume that it was built during a single dynasty. The building of the wall spanned the various dynasties, and each of these dynasties somehow contributed to the refurbishing and the construction of a wall, whose foundations had been laid many centuries ago. It was during the fourth century B.C. that warring states started building walls to protect their kingdoms, both against one another and against the northern nomads. Especially three of these states: the Ch’in, the Chao and the Yen, corresponding respectively to the modern provinces of Shensi, Shanxi and Hopei, over and above building walls that surrounded their kingdoms, also laid the foundations on which Ch’in Shih Huang Di would build his first continuous Great Wall.

Q.76 Chinese cities resembled a maze

- A. because they were walled.
- B. because the houses had no external windows.
- C. because the name for cities means 'wall'.
- D. because walls have always been important there.

Q.77 Constructing a wall that ran the length of the country

- A. honoured the god of walls and mounts.
- B. was an absurdly laborious task.
- C. may have made sense within Chinese culture.
- D. made the country look like a huge maze.

Q.78 The Great Wall of China

- A. was built in a single dynasty.
- B. was refurbished in the fourth century BC.
- C. used existing foundations.
- D. was built by the Ch'in, the Chao and the Yen.

Q.79 Ramparts of pounded earth were used

- A. in the Neolithic period only.
- B. during the Communist Revolution
- C. in both the Neolithic Period and the Communist Revolution
- D. in neither the Neolithic Period nor the Communist Revolution.

Q.80 The warring states started building walls about

- A. sixteen centuries before us.
- B. twenty-four centuries before us.
- C. three centuries before us.
- D. four centuries before us.

Question Numbers 81 to 90 are based on the passage given below. Read the entire passage first, and then on the basis of overall tone and logic, identify the most appropriate word to fill in the respective blanks:

Do women ... (81) leadership differently than men do? And if so, will feminine leadership ... (82) where ... (83) leadership does not? A recent study suggests somewhat paradoxically that female managers ... (84) their male ... (85) even when the personal characteristics of both are very ... (86). The structuralist theory argues that men and women do not receive the same treatment in the workplace and that stamping out ... (87) bias would stamp out the observed ... (88). In contrast, the socialisation theory contends that men and women experience work differently because men see work as more ... (89) to their lives. These ... (90) explanations apart, business these days appears to be undergoing feminisation of leadership.

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|------|---------------|---------------|-------------------|--------------------|
| Q.81 | A. Exercise | B. Tolerate | C. Empower | D. Authorize |
| Q.82 | A. Compete | B. Affect | C. Succeed | D. Progress |
| Q.83 | A. Masculine | B. Benevolent | C. Traditional | D. Charismatic |
| Q.84 | A. out-cast | B. out-do | C. out-live | D. Out-caste |
| Q.85 | A. Superior | B. Employees | C. Managers | D. Counterparts |
| Q.86 | A. Similar | B. Unique | C. Minimal | D. Distinct |
| Q.87 | A. Class | B. Culture | C. Gender | D. Category |
| Q.88 | A. Equalities | B. Variations | C. Distortions | D. Discriminations |
| Q.89 | A. Trivial | B. Central | C. Needy | D. Desperate |
| Q.90 | A. Identical | B. Analogical | C. Discriminating | D. Contradictory |

Each of the following questions (91-95) consists of an italicized word or phrase in the given sentence. Of the options available, identify the one closest in meaning to the italicized word/phrase:

- Q.91 The machine was *fabricated* in our own workshop.
A. operated B. installed C. imported D. designed
- Q.92 He is *meticulous* in his dealings with others.
A. reserved B. efficient C. indifferent D. very careful

- Q.93 There is no need to give me all these *lurid* details.
 A. realistic B. sexy C. saddening D. shocking
- Q.94 The speech he made was all *Greek* to me.
 A. belonging to Greece B. unintelligible C. comforting D. convincing
- Q.95 He was dealt a *fatal* blow by his opponent.
 A. causing death B. caused by fate C. facial D. causing injury

Each of the following questions (96-100) consists of an italicized word or phrase in the given sentence. Of the options available, identify the one closest to the *opposite* of the meaning of the italicized word/phrase:

- Q.96 *Ambiguity* can be a virtue sometimes..
 A. rigidity B. flexibility C. clarity D. To be small-sized
- Q.97 The windowpane is *transparent*.
 A. opaque B. translucent C. breakable D. fragile
- Q.98 He was caught in a *precarious* situation.
 A. dangerous B. safe C. cautious D. hilarious
- Q.99 The Chairman *initiated* the proceedings with a brief speech.
 A. simplified B. complicated C. concluded D. uninitiated
- Q.100 He is a *chicken-hearted* fellow.
 A. brave B. timid C. easily scared D. small in size