

T.I.M.E. Greater Noida

An IIM Alumni Venture

CAT SCHOLARSHIP MOCK TEST PAPER

Test code: MCCAT01

Total no. of Questions: 30

Total Duration: 1 hour

SECTION-1: QUANT

- If $(x + 2)^2 = -4 + 10x$, then which of the following could be the value of x ?
A) 2 B) 1 C) 0 D) -1 E) -2
- The difference between a two digit number and its reverse (interchanging the digits) is 36. If the sum of digit is 10 then what is the original number?
a. 18 b. 53 c. 73 d. 29 e. None of the above
- If x and y are non-negative integers. How many pairs of solutions are possible for the equation $2X + 3Y = 14$
a. 2 b. 3 c. 4 d. 5 e. None of the above
- What is the 25th digit to the right of the decimal point in the decimal form of $6/11$?
(A) 3 (B) 4 (C) 5 (D) 6 (E) 7
- Mr.X enters a positive integer Y in an electronic calculator and then goes on pressing the square – root key repeatedly. Then
(a) The display does not stabilize
(b) The display becomes closer to 0
(c) The display becomes closer to 1
(d) May not be true and the answer depends on the choice of Y
- If n is any positive integer, then $n^3 - n$ is divisible
(a) Always by 12
(b) Never by 12
(c) Always by 6
(d) Never by 6
- The value of $(1-d^3)/(1-d)$ is
(a) > 1 if $d > -1$ (b) > 3 if $d > 1$ (c) > 2 if $0 < d < 0.5$ (d) < 2 if $d < -2$
- Gopal went to a fruit market with certain amount of money. With this money he can buy either 50 oranges or 40 mangoes. He retains 10% of the money for taxi fare. If he buys 20 mangoes, then the number of oranges he can buy is
(a) 25 (b) 18 (c) 20 (d) None of these

9. A certain number of balls were purchased for rs 450. Five more balls could have been purchased if each ball was cheaper by rs 15. The number of balls purchased was?

a.20 b. 10 c. 15 d. 30 e. 33

10. Three friends, returning from a movie, stopped to eat at a restaurant. After dinner, they paid their bill and noticed a bowl of mints at the front counter. Sita took $\frac{1}{3}$ of the mints, but returned four because she had a momentary pang of guilt. Fatima then took $\frac{1}{4}$ of what was left but returned three for similar reasons. Eswari then took half of the remainder but threw two back into the bowl. The bowl had only 17 mints left when the raid was over. How many mints were originally present in the bowl?

a.38 b. 31 c. 41 d. none of these

SECTION-2 : DATA INTERPETATION & LOGICAL REASONING

Information for Q11 – 13 : Five of India's leading models are posing for a photograph promoting "world peace and understanding". But then, Rakesh Shreshtha the photographer is having a tough time getting them to stand in a straight line, because Aishwarya refuses to stand next to Sushmita because Sushmita had said something about her in a leading gossip magazine. Rachel and Anu want to stand together because they are "such good friends". Manpreet, on the other hand cannot get along well with Rachel, because there is some talk about Rachel scheming to get a contract already awarded to Manpreet. Anu believes her friendly astrologer who has asked her to stand at the extreme right for all group photographs. Finally, Rakesh managed to pacify the girls and got a beautiful picture of five beautiful girls smiling beautifully in a beautiful straight line, promoting world peace.

11. If Aishwarya is standing to the extreme left, which is the girl standing in the middle?

(a) Manpreet (b) Sushmita (c) Rachel (d) Cannot say

12. If Aishwarya stands to the extreme left, which is the girl who stands second from left?

(a) Cannot say (b) Sushmita (c) Rachel (d) Manpreet

13. If Anu's astrologer tells her to stand second from left and Aishwarya decides to stand second from right, then who is the girl standing on the extreme right?

(a) Rachel (b) Sushmita (c) Cannot say (d) Manpreet

Directions for the questions from 14 to 17: The following table gives the national income and the population of a country for the years 1984 – 85 to 1989 – 90. For each of the following

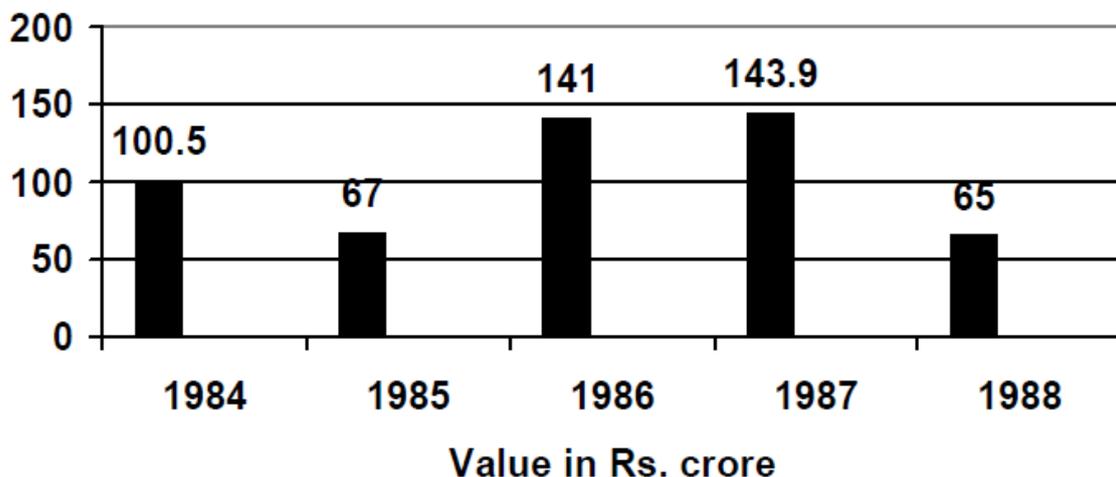
questions choose the best alternative:

Year	National Income (in Rs. Crore)	Population (in crore)
1984-85	229,225	74.0
1985-86	261,174	75.0
1986-87	291,556	77.0
1987-88	329,934	78.5
1988-89	388,539	80.0
1989-90	433,500	81.5

14. The increase in the per capita income compared to the previous year is lowest for the year :
 (a) 1985-86 (b) 1986-87 (c) 1987-88 (d) 1989-90
15. The per capita income is highest for the year :
 (a) 1984-85 (b) 1985-86 (c) 1987-88 (d) 1989-90
16. The difference between the percentage increase in per capita income and the percentage increase in the population compared to the previous year is highest for the year:
 (a) 1985-86 (b) 1986-87 (c) 1987-88 (d) 1988-89
17. The rate of increase in population was lowest in the year:
 (a) 1985-86 (b) 1987-88 (c) 1989-90 (d) None of these

Directions for Question 18 to 20: Refer to the following Bar-chart and answer the questions that follow:

Project Exports: Contracts Secured



18. What is the average value of the contract secured during the years shown in the diagram?
 (a) Rs. 103.48 crore
 (b) Rs. 105 crore

- (c) Rs. 100 crore
- (d) Rs.125.2 crore

19. Compared to the performance in 1985 (i.e. taking it as the base), what can you say about the performances in the years '84, '85, '86, '87, '88 respectively, in percentage terms?

- (a) 150, 100, 211, 216, 97
- (b) 100, 67, 141, 144, 65
- (c) 150, 100, 200, 215, 100
- (d) 120, 100, 220, 230, 68

20. Which is the year in which the highest percentage decline is seen in the value of contract secured compared to the preceding year?

- (a) 1985
- (b) 1988
- (c) 1984
- (d) 1986

SECTION-3 : VERBAL ABILITY

Questions 21 to 25: Choose the grammatically correct sentence from among the four options given for each question.

21.

- . (a) The Excel Company has greatly enhanced it's advertising expense.
- . (b) The Excel Company has greatly increased its advertising expense.
- . (c) The Excel Company has greatly enhanced its advertising expense.
- . (d) The Excel Company has greatly increased it's advertising expense.

22. (a) Today we love, what tomorrow we hate; today we seek, what tomorrow we shun, today we desire, what tomorrow we fear. (b) Today, we love what tomorrow we hate, today, we seek what tomorrow we shun, today, we desire what tomorrow we fear. (c) Today we love what tomorrow we hate, today we seek what tomorrow we shun, today we desire what tomorrow we fear. (d) Today we love what tomorrow we hate; today we seek what tomorrow we shun; today we desire what tomorrow we fear.

23.

- . (a) There's Mr. Som, whom they say is the best singer in the country.
- . (b) There's Mr. Som, who they say is the best singer in the country.
- . (c) There is Mr. Som, whom they say is the best singer in the country.

. (d) There is Mr. Som who, they say is the best singer in the country.

24.

. (a) I am not one of those who believe everything they hear.

. (b) I am not one of those who believes everything I hear.

. (c) I am not one of those who believes everything he hears.

. (d) I am not one of those who believes in everything one hears.

25.

. (a) The Board of Directors will hold its next meeting in July.

. (b) The Board of Directors will hold it's next meeting in July.

. (c) The Board of Directors shall hold the next meeting in July.

. (d) The Board of Directors shall hold it's next meeting in July.

Questions 26 to 30 : Each of the following questions has one or more blank spaces indicating where a word / words has been left out. Following each sentence, four words or sets of words lettered a to d have been given. You have to select the appropriate word or set of words to make the sentence most meaningful.

26. The _____, those cellular bodies which contain the _____ particles, the genes, provide us with basic facts of genetic transmission. (a) protoplasm, microscopic (b) globules, fat

(c) cytoplasm, minute (d) chromosomes, hereditary

27. The insurance claim was _____ by the relevant documents (a) sustained (b) backed out (c) backed up

(d) proved

28. I should not have _____ to talk in such a _____ strain especially when I had not studied the man to whom I was talking. (a) daring, commanding (b) try, bold

(c) ventured, peremptory (d) emboldened, reckless

29. High prices are often the _____ of _____ of goods (a) accompaniment, dearth (b) concomitant, scarcity (c) cause,

(d) result, glut

30. The recent disturbances in the country will _____ and peace will be restored. (a) blow past (b) blow over (c) pass through

(d) come to pass