

Vinod Gupta School of Management
Indian Institute of Technology Kharagpur

EMBA Admission, 2017

Written Test

18th June 2017

Time: 02:15 Hours

Total Marks: 120

Application No.	2	0	1	7	1	1	5						
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Signature: _____

Instructions:

1. There are three sections in this question paper:
 - a. Section A : English & Verbal Ability (30 questions, 30 marks)
 - b. Section B : Quantitative Aptitude (30 questions, 30 marks)
 - c. Section C : Logical Reasoning and Data Interpretation (20 questions, 40 marks)
 - d. Section D : Analytical Writing (10X2 = 20)
2. There is no negative marking.
3. Use CAPITAL letter for your choice in objective type questions.
4. If you use any small letter for your choice in objective type questions, then the answer will not be evaluated.
5. Answer sheets for Sections A, B and C are in page 2 .
6. Total number of pages: 26.

Application No.	2	0	1	7	1	1	5						
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Section A: English and Verbal Ability		Section B: Quantitative Aptitude		Section C: Logical Reasoning and Data Interpretation	
Q 1		Q 31		Q 61	
Q 2		Q 32		Q 62	
Q 3		Q 33		Q 63	
Q 4		Q 34		Q 64	
Q 5		Q 35		Q 65	
Q 6		Q 36		Q 66	
Q 7		Q 37		Q 67	
Q 8		Q 38		Q 68	
Q 9		Q 39		Q 69	
Q 10		Q 40		Q 70	
Q 11		Q 41		Q 71	
Q 12		Q 42		Q 72	
Q 13		Q 43		Q 73	
Q 14		Q 44		Q 74	
Q 15		Q 45		Q 75	
Q 16		Q 46		Q 76	
Q 17		Q 47		Q 77	
Q 18		Q 48		Q 78	
Q 19		Q 49		Q 79	
Q 20		Q 50		Q 80	
Q 21		Q51			
Q 22		Q52			
Q 23		Q53			
Q 24		Q54			
Q 25		Q55			
Q 26		Q56			
Q 27		Q57			
Q 28		Q58			
Q 29		Q59			
Q 30		Q60			

SECTION A: ENGLISH AND VERBAL ABILITY

For QUESTION 1 TO 6.

PLEASE READ THE PASSAGE AND ANSWER THE QUESTIONS THAT FOLLOW BY CHOOSING THE CORRECT OPTION FOR EACH

As reason and revelation both tell us that this state of being is but a preparation for another of a still higher and more spiritual order, all the interests of life are of comparatively little importance, when put in the balance against the future. It is in this grand fact that we are to seek for the explanations of whatever may strike us as unjust, partial, or unkind in the dispensations of Providence, as these dispensations affect our temporal condition. If there is no pure and abstract liberty, no equality of condition, no equal participation in the things of the world that we are accustomed to fancy good, on remembering the speck of time passed in the present state, the possibility that what to us may seem a curse, may in truth be a blessing, the certainty that prosperity is more corrupting than adversity, we shall find the solution of all our difficulties.

In a religious point of view, it may be permitted to endeavor to improve our temporal condition, by the use of lawful and just means, but it is never proper to repine. Christ, in the parable of the vine dressers, has taught us a sublime lesson of justice, by showing that to the things which are not our own, we can have no just claim. To this obvious truth, may be added the uncertainty of the future, and the ignorance in which we exist of what is good, or what is evil, as respects our own wants.

There is but one mode of viewing life, either in a religious, or in a philosophical sense, and that is to remember it is a state of probation in which the trials exceed the enjoyments, and that, while it is lawful to endeavor to increase the latter, more especially if of an intellectual and elevated kind, both form but insignificant interests in the great march of time. Whatever may be the apparent inequalities here, and even they are less real than they appear to be, it is certain that we bring nothing with us into the world, and that we take nothing out of it. Everything around us serves to teach the lesson that, though inequality of condition here is as probably intended for some great end as it is unavoidable, we come from a state of being in which we know of no such law, to go to one that we have divine revelation for believing will render the trifling disparities and the greatest advantages of this life, matters of insignificance, except as they have had an influence on our deportment, characters and faith. It would be just as discreet for a man who is suffering with hunger to murmur at having been created with such a want, while others are feeding, as to repine that another enjoys advantages he cannot possess. In this country, the aim has been to reduce all the factitious inequalities of station, condition, wealth and knowledge, to a state as natural as comports with civilization, and beyond this it exceeds the power of man to go, without returning to the condition of the savage. Let him, then, on whom the world bears hard, seek his consolation in that source which is never drained, and where more contentment is to be found than shadows a throne, or smiles on riches and power. If it be a positive thing to be a gentleman, or a lady, and as much a folly to deny that a horse is an animal, it is equally positive that we carry in us a principle of existence that teaches us, however

good and pleasant may seem the outward blessings of the world, that there are still blessings of infinitely greater magnitude, that have the additional merit of being imperishable.

1. The first sentence
 - A. Puts reason and revelation on an equal footing
 - B. Denies the importance of our present being
 - C. implies that only the future matters
 - D. Asserts the relative superiority of a future life.

2. Several pairs of opposite words occur in the first paragraph. Their number is
 - A. one
 - B. two
 - C. three
 - D. four

3. A religious point of view will not permit us
 - A. to be discontented
 - B. to make attempts at material betterment
 - C. to feel uncertain about the future
 - D. to be ignorant of our wants

4. The word both in 'both form but insignificant interests in the great march time' stands for
 - A. modes of viewing life
 - B. the religious sense and the philosophical sense
 - C. states of probation
 - D. trials and enjoyments

5. The author repeatedly maintains that
 - A. fretting against the real or imaginary woes in the present is wrong
 - B. man has got to come to terms with whatever adversities he may face' the present life
 - C. it is impossible to identify any example of undeserved distress in the world
 - D. it is ignorance that makes us give greater importance to worldly thing!

6. The best title for the above passage will be
 - A. Temporal versus spiritual
 - B. Man is a creature of ignorance
 - C. A religious point of view
 - D. Life and God's will

QUESTION 7 TO 11

Choose the letter of the word that is closest in meaning to the one given at the top.

7. Confiscate

- A. Seize
- B. Punish
- C. Impeach
- D. Sue

8. Predilection

- A. Favor
- B. Pleasant feeling
- C. Prejudice
- D. Special liking

9. Usury

- A. An immoral act
- B. Breach of a contract
- C. Money-lending at a very high rate of interest
- D. Refusal to pay a debt

10. Implore

- A. Beg
- B. State
- C. Begin
- D. Resist

11. Alacrity

- A. Shame
- B. Quickness
- C. Stupidity
- D. Grace

QUESTIONS 12 TO 15

Rearrange the jumbled sentences in the following passages. The first sentences (S1) and the sixth sentences (S6) are in their proper places. The middle sentences have been jumbled and named P, Q, R and S. Find the proper sequence of these sentences.

12. S1. Philip had not been to this part of the library before.

S6. Twenty pairs of eyes looked up at him simultaneously, annoyed by this unaccustomed disturbance.

P. The shelves were filled with thick volumes: dictionaries, atlases other works of reference.

Q. The books in this section were on a high shelf out of his reach. SO he had to fetch a small ladder in order to get one down.

R. He found nothing that was likely to interest him, until he came to a small section on photography.

S. Unfortunately, the book he had chosen slipped from his grasp and fell to the floor with a loud crash.

A. QPRS

B. QRPS

C. SPQR

D. PQRS

13. S1. Venice is a strange and beautiful city in the north of Italy.

S6. This is because Venice has no streets.

P. There are about four hundred old stone bridges joining the islands of Venice.

Q. In this city there are no motor-cars, no horses and no buses.

R. These small islands are near one another.

S. It is not one island but a hundred and seventeen islands.

A. PQRS

B. SRPQ

C. QPRS

D. QRSP

14. S1. There are birds which for reasons unknown to us can afford to sing much more than is strictly necessary.

S6. That depends entirely on the species.

P. And for some reason they can afford to take the risk.

Q. How, then, do males of species that do not sing manage to attract females?

R. Thus blackbirds sing a great deal on summer evenings when known functions of their song have been fulfilled.

S. Their song at these times is even richer and more varied than in the mating season, and we cannot help believing that these birds sing just for the fun of it.

A. RSPQ

B. PQRS

C. QRPS

D. RPQS

15. SI. Some kind of ethical approach to life has a strong appeal for me, though it would be difficult for me to justify it logically

S6. How far it has succeeded in India, I cannot say.

P. The idea is by no means new, but this application of an ethical doctrine to large-scale public activity was certainly novel.

Q. It is full of difficulty, and perhaps ends and means are not really separable and form together one organic whole.

R. I have been attracted by Gandhiji' s stress on right means and I think one of his greatest contributions to our public life has been this emphasis.

S. In a world which thinks almost exclusively of ends and ignores means the emphasis on means seems odd and remarkable.

- A. PQRS
- B. QRPS
- C. RPQS
- D. RSPQ

Direction for question 16 to 19: For each of the words below, a contextual usage is provided. Pick the word from the alternatives given that is most in appropriate in the given context.

16. **Specious:** A specious argument is not simply a false one but one that has the ring of truth.

- A. Deceitful
- B. Fallacious
- C. Credible
- D. Deceptive

17. **Obviate:** The new mass transit system may obviate the need for the use of personal cars.

- A. Prevent
- B. Forestall
- C. Preclude
- D. Bolster

18. **Disuse:** Some words fall into disuse as technology makes objects obsolete.

- A. Prevalent
- B. Discarded
- C. Obliterated
- D. Unfashionable

19. **Parsimonious:** The evidence was constructed from very parsimonious scraps of information.

- A. Frugal
- B. Penurious
- C. Thrifty
- D. Altruistic

Direction for question 20 to 24: For each of the words below, a contextual usage is provided. Pick the word from the alternative given that is closest in meaning in the given context.

20. **Opprobrium:** The police officer appears oblivious to the opprobrium generated by his blatantly partisan conduct.

- A. Harsh criticism
- B. Acute distrust
- C. Bitter enmity
- D. Stark oppressiveness

21. **Portends:** It appears to many that the US “war on terrorism” portends trouble in the Gulf.

- A. Introduces
- B. Evokes
- C. Spells
- D. Bodes

22. **Prevaricate:** When a videotape of her meeting was played back to her and she was asked to explain her presence there, she started prevaricating.

- A. Speaking evasively
- B. Speaking violently
- C. Lying furiously
- D. Throwing a tantrum

23. **Restive:** The crowd became restive when the minister failed to appear even by 10 p.m.

- A. Violent
- B. Angry
- C. Restless
- D. Distressed

24. **Ostensible:** Manohar’s ostensible job was to guard the building at night.

- A. Apparent
- B. Blatant
- C. Ostentatious
- D. Insidious

Direction for question 25 to 30: In each question, the word at the top is used in four different ways, numbered (a) to (d) .Choose the option in which the usage of the word is Incorrect or Inappropriate.

25. HELP

- A. This syrup will help your cold.
- B. I can't help the color of of my skin.
- C. Ranjit may help himself with the beer in the fridge.
- D. Do you really expect me to help you out with cash ?

26. REASON

- A. Your stand is beyond all reason.
- B. Has she given you any reason for her resignation?
- C. There is little reason in your pompous advice.
- D. How do you deal with a friend who doesn't listen to a reason

27. PAPER

- A. Your suggestions look great on the paper, but are absolutely impractical.
- B. Do you know how many trees are killed to make a truckload of paper?
- C. So far I have been able to paper over the disagreements among my brothers.
- D. Dr. Malek will read a paper on criminalization of politics.

28. BUSINESS

- A. I want to do an MBA before going into business.
- B. My wife runs profitable business in this suburb.
- C. If we advertise we will get twice as much business as we have now.
- D. How you spend your money is as much my business as yours.

29. SERVICE

- A. Customers have to service themselves at this canteen.
- B. It's a service lift; don't get into it.
- C. I'm not making enough even to service the loan.
- D. Jyoti's husband has been on active service for three months.

30. BOLT

- A. The shopkeeper showed us a bolt of fine silk.
- B. As he could not move, he made a bolt for the gate.
- C. Could you please bolt the door?
- D. The thief was arrested before he could bolt from the scene of the crime.

SECTION B: QUANTITATIVE APTITUDE

31. The length and breadth of a rectangular piece of land are in the ratio of 5:3. The owner spent Rs 3000 for surrounding it from all sides at Rs 7.50 per metre. The difference between its length and breadth is:

- A. 50 m
- B. 100m
- C. 150 m
- D. 200 m

32. Four different bells ring at intervals of 5, 6, 8 and 10 minutes respectively. If they ring together at 4 pm, they will ring together again at:

- A. 5.30 pm
- B. 6.00 pm
- C. 7.00 pm
- D. 8.10 pm

33. Four years ago, the respective ratio between the age of Monu and Sonu was 4:9. Meena is ten years older to Monu. Meena is ten years younger to Sonu. What is Meena's present age?

- A. 40 Years
- B. 36 Years
- C. 30 Years
- D. 20 Years

34. Bananas are bought at 15 for a rupee and sold at the rate of 9 for a rupee. The gain percent is:

- A. 30%
- B. 60%
- C. 66.66 %
- D. 33.33%

35. A mixture contains alcohol and water in the ratio of 4:3. If 7 litres of water is added to the mixture, the ratio of alcohol to water becomes 3:4. The quantity of alcohol in the mixture is:

- A. 10 Litres
- B. 12 Litres
- C. 32 Litres
- D. 48 Litres

36. A die is rolled three times, the probability of getting a larger number than the previous number is:

- A. $\frac{1}{54}$
- B. $\frac{5}{54}$
- C. $\frac{5}{108}$
- D. $\frac{13}{108}$

37. The average age of all the 100 students in a college is 29 years, where $\frac{2}{5}$ students are girls and the ratio of average age of boys to girls is 5:7. The average age of girls is:

- A. 18 Years
- B. 35 Years
- C. 25 Years
- D. 30 Years

38. Gunjan sells two items at Rs 12 each. She gains 20% on one and loses 20% on the other. In the whole transaction, there is:

- A. Neither loss nor gain
- B. Profit of Re 1
- C. Loss of Re 1
- D. Profit of Rs 2

39. In an Examination, a Student scores 4 marks for every correct answer and loses 1 mark for every wrong answer. A student attempted all the 200 questions and scored in total 200 marks. The number of questions, he answered correctly was:

- A. 82
- B. 80
- C. 68
- D. 60

40. In an election between two candidates, the candidate who gets 30% of the votes polled is defeated by 15000 votes. The number of votes polled by the winning candidate is:

- A. 11250
- B. 15000
- C. 26250
- D. 37500

41. The Middle term of an arithmetic progression consisting of n number of terms is m , the sum of the terms of the series will be:

- A. $m+n$
- B. mn
- C. $m-n$
- D. m/n

42. If 540 is divided by 11, then the remainder is

- A. 2
- B. 3
- C. 5
- D. 1

43. If a, b, c, d are four numbers such that the first three are in A.P. while the last three are in H.P. then:

- A. $ab=cd$
- B. $ac=bd$
- C. $ad=bc$
- D. none of these

44. The sum of integers from 1 to 100 which are divisible by 2 or 5 is:

- A. 3000
- B. 3010
- C. 3150
- D. 3050

45. A student is allowed to select at most n books from a collection of $(2n+1)$ books. If the total number of ways in which he can select at least one book is 63, find the value of n :

- A. 5
- B. 6
- C. 3
- D. 7

46. In three vessels each of 10 litres capacity, mixture of milk and water is filled. The ratios of milk and water are 2:1, 3:1 and 3:2 in the three respective vessels. If all the three vessels are emptied into a single vessel, find the proportion of milk and water in the mixture

- A. 121:59
- B. 20:47
- C. 11:59
- D. 121:47

47. A student secures 90% , 60%, and 54% marks in test papers with 100,150,200 respectively as maximum marks. The percentage of his aggregate is:

- A. 64
- B. 68
- C. 70
- D. None of these

48. The image of the point (1,2,3) by the plane $x+y+z+3=0$ is

- A. (-5, 4,-3)
- B. (-5,-4,-3)
- C. (5,-4, 3)
- D. (5,4,3)

49. An intelligence agency forms a code of two distinct digits selected from 0,1,2,...,9 such that the first digit of the code is nonzero. The code, handwritten on a slip can however potentially create confusion, when read upside down for example, the code 91 may appear as 16.How many codes are there for which no such confusion can arise?

- A. 80
- B. 78
- C. 71
- D. 69

50. A child was asked to add first few natural numbers (that is ,1+2+3+4+...) so long his patience permitted. As he stopped he gave the sum as 575.When the teacher declared the result wrong the child discovered he had missed one number in the sequence during addition. The number he missed was:

- A. Less than 10
- B. 10
- C. 15
- D. More than 15

51. The length of the sides of a triangle are $x + 1$, $9 - x$ and $5x - 3$. The number of values of x for which the triangle is isosceles is:

- A. 0
- B. 1
- C. 2
- D. 3

52. Last year Mr Basu bought two scooters. This year he sold both of them for Rs 30,000 each. On one, he earned 20% profit, and on the other he made a 20% loss. What was his net profit or loss?

- A. He gained less than Rs 2000
- B. He gained more than Rs 2000
- C. He lost less than Rs 2000
- D. He lost more than Rs 2000

53. How many numbers between 1 to 1000 (both excluded) are both squares and cubes?

- A. None
- B. 1
- C. 2
- D. 3

54. Steel Express runs between Tatanagar and Howrah and has five stoppages in between. Find the number of different kinds of one-way second class ticket that Indian Railways will have to print to service all types of passengers who might travel by Steel Express?

- A. 49
- B. 42
- C. 21
- D. 7

55. What is the sum of first 100 terms which are common to both the progressions

17, 21, 25, ... and 16, 21, 26, :

- (A) 100000
- (B) 101100
- (C) 111000
- (D) 100110

56. A water tank has three taps : A, B and C. A fills 4 buckets in 24 mins., B fills 8 buckets in 1 hour and C fills 2 buckets in 20 mins. If all the taps are opened together, a full tank is emptied in 2 hours. If a bucket contains 5 liters of water, what is the capacity of the tank?

- A. 120 L
- B. 240 L
- C. 180 L
- D. 60 L

57. For which of the numbers do the mean, median and mode all have the same value?

- A. 2,2,2,2,4
- B. 1,3,3,3,5
- C. 1,1,2,5,6
- D. 1,1,1,2,5

58. The mean of a, b, c, d and e is 28. If the mean of a, c and e is 24, what is the mean of b and d ?

- A. 31
- B. 32
- C. 33
- D. 34

59. If the mean of five observations $x, x+2, x+4, x+6, x+8$, is 11, then the mean of first three observations is :

- A. 9
- B. 11
- C. 13
- D. None of these

60. Three bells chime at intervals of 18 mins, 24 mins and 32 mins respectively. At a certain time, they begin to chime together. What length of time will elapse before they chime together again?

- A. 2 hrs 24 mins
- B. 4 hrs 48 mins
- C. 1 hr 36 mins
- D. 5 hrs

SECTION C: LOGICAL REASONING AND DATA INTERPRETATION

Directions (Question 61 to 65): Read the following statements to answer these questions. Each of these questions is based on the information given below:

- Anuj, Babu, Chiku, Deepak and Evan are five men sitting in a line facing to south - while Mina, Navika, Ojaswi, Preeti and Seema are five ladies sitting in a second line parallel to the first line and are facing to North.
- Babu who is just next to the left of Deepak, is opposite to Seema.
- Chiku and Navika are diagonally opposite to each other.
- Evan is opposite to Ojaswi who is just next right of Mina.
- Preeti who is just to the left of Seema, is opposite to Deepak.
- Mina is at one end of the line.

61. Who is sitting third to the right of Ojaswi?

- A. Seema
- B. Navika
- C. Mina
- D. Data inadequate

62. If Babu shifts to the place of Evan, Evan shifts to the place of Seema, and Seema shifts to the place of Babu, then who will be the second to the left of the person opposite to Ojaswi?

- A. Seema
- B. Preeti
- C. Evan
- D. Deepak

63. Which of the following pair is diagonally opposite to each other ?

- A. Evan-Seema
- B. Babu- Ojaswi
- C. Anuj-Navika
- D. Anuj- Mina

64. If Ojaswi and Preeti, Anuj and Evan, and Babu and Seema interchange their positions, then who will be the second person to the right of the person who is opposite to the person second of the right of Preeti ?

- A. Deepak
- B. Anuj
- C. Evan
- D. Ojaswi

65. In the original arrangement who is sitting just opposite to Navika?

- A. Babu
- B. Anuj
- C. Chiku
- D. Deepak

Directions (Question 66 to 70): For the following questions, look at this series, and identify from amongst the options as to which number(s) or alphabet(s) should fill up the blank?

66. DEF, DEF2, DE2F2, _____, D2E2F3

- A. DEF3
- B. D3EF3
- C. D2E3F
- D. D2E2F2

67. 8, 6, 9, 23, 87, _____?

- A. 128
- B. 226
- C. 324
- D. 429

68. 9, 11, 33, 13, 15, 33, 17, _____, _____?

- A. 19, 33
- B. 33, 35
- C. 33, 19
- D. 15, 33
- E. 19, 21

69. 20, 17, 34, 31, 62, 59, _____?

- A. 95
- B. 118
- C. 110
- D. 128

70. AEZ : EIY :: IOX:

- A. UYZ
- B. AEZ
- C. EIX
- D. OUW

Directions (Question 71 to 75): A school has four sections A, B, C, D of Class IX students.

The results of half yearly and annual examinations are shown in the table given below:

Result	No. of Students			
	Section A	Section B	Section C	Section D
Students failed in both Exams	28	23	17	27
Students failed in half-yearly but passed in Annual Exams	14	12	8	13
Students passed in half-yearly but failed in Annual Exams	6	17	9	15
Students passed in both Exams	64	55	46	76

71. If the number of students passing an examination be considered a criteria for comparison of difficulty level of two examinations, which of the following statements is true in this context?

- A. Half yearly examinations were more difficult.
- B. Annual examinations were more difficult.
- C. Both the examinations had almost the same difficulty level.
- D. The two examinations cannot be compared for difficulty level.

72. How many students are there in Class IX in the school?

- A. 336
- B. 189
- C. 335
- D. 430

73. Which section has the maximum pass percentage in at least one of the two examinations?

- A. Section A
- B. Section B
- C. Section C
- D. Section D

74. Which section has the maximum success rate in annual examination?

- A. Section A
- B. Section B
- C. Section C
- D. Section D

75. Which section has the minimum failure rate in half yearly examination?

- A. Section A
- B. Section B
- C. Section C
- D. Section D

Directions (Question 76 to 80):

In each question below are given two statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusion and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Give answer:

- A. If only conclusion I follows
- B. If only conclusion II follows
- C. If either I or II follows
- D. If neither I nor II follows and
- E. If both I and II follow.

76. Statements: All mangoes are golden in colour. No golden-coloured things are cheap.

Conclusions:

- I All mangoes are cheap.
- II Golden-coloured mangoes are not cheap

- A. Only conclusion I follows
- B. Only conclusion II follows
- C. Either I or II follows
- D. Neither I nor II follows
- E. Both I and II follow

77. Statements: Some trees are bushes. All flowers are bushes.

Conclusions:

- I Atleast some bushes are trees
- II Atleast some flowers are trees

- A. Only conclusion I follows
- B. Only conclusion II follows
- C. Either I or II follows
- D. Neither I nor II follows
- E. Both I and II follow

78. In a certain code, '253' means 'books are old'; '546' means 'man is old' and '378' means 'buy good books'.

What stands for 'are' in that code?

- A. 2
- B. 4
- C. 5
- D. 6
- E. 9

79. In a certain language, SUPERMAN is coded as TTQDSLBM. How is SPIDERMAN coded in that language?

- A. TOJCFQNZO
- B. TOJCFSLBM
- C. TOJCFONZO
- D. TOJCOSLBM

80. If $A + B$ means A is the son of B; $A - B$ means A is the husband of B; $A \times B$ means A is the sister of B, then which of the following shows the relation Q is the maternal uncle of P?

- A. $P - B + R \times Q$
- B. $P + B - R \times Q$
- C. $P + B \times R - Q$
- D. $P \times B - R + Q$
- E. None of these

SECTION D: ANALYTICAL WRITING

Critically comment on ANY TWO of the following topics. Word limit (200 words each).

(2 x 10= 20 marks)

A. Physical education must be made compulsory in schools and colleges.

B. Social media: Boon or bane.

C. Corruption can neither be mitigated nor be eliminated in India

The End