



Since - 2003

AFCAT SAMPLE PAPER

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Directions – Each item in this section has a sentence which has multiple parts. Find out the error part from the given option and indicate your response from the option (a), (b), (c) and (d) on the answer sheet.

1. A closed economy is identified as a human community which produces all it consumes and consumed all it produces.
(a) A closed economy is identified
(b) as a human community
(c) which produces all it consumes
(d) and consumed all it produces
2. While every care have been taken in preparing the results, the company reserves the right to correct any inadvertent errors at a later stage.
(a) While every care have been taken
(b) in preparing the results
(c) the company reserves the right to correct
(d) any inadvertent errors at a later stage
3. Mumbai is largest cotton centre in the country.
(a) Mumbai is
(b) largest cotton centre
(c) in the country
(d) No error
4. Despite the thrill of winning the lottery last week, my neighbor still seems happy.
(a) Despite the thrill of winning
(b) the lottery last week
(c) my neighbor
(d) still seems happy
5. The real voyage of discovery consist not in seeking new landscape, but in having new eyes.
(a) The real voyage of discovery
(b) consist not in seeking new landscapes,
(c) but in having new eyes
(d) No error

Directions – You are required to rearrange the jumbled parts of the sentences and mark your response accordingly.

6. (P) a hailstorm activity in the evenings (Q) there is a possibility of (R) while there could be (S) heavy rain towards the weekend The correct sequence should be
(a) SQPR
(b) QSRP
(c) QRPS
(d) SPRQ
7. (P) while they are small (Q) and do the great things (R) while they are easy (S) do the difficult things The correct sequence should be
(a) SRQP
(b) PSQR
(c) SRPQ
(d) QPSR
8. (P) then you sure (Q) if you can't (R) don't deserve me at my best (S) handle me at my worst The correct sequence should be
(a) PRQS
(b) QSPR
(c) RQSP
(d) PSRQ
9. (P) for contractual assignment at cultural centres abroad (Q) as Teacher of Indian Culture for two years (R) application are invited in a prescribed format (S) from Indian Nationals for deployment The correct sequence should be
(a) QPRS
(b) SRPQ
(c) PQRS
(d) RSQP
10. (P) what we may be (Q) but not we not know (R) we know (S) what we are The correct sequence should be
(a) RSQP
(b) QPRS
(c) QRPS
(d) RQPS

Directions – Select the option that is opposite in meaning to the underlined word and mark your response on your answer sheet accordingly.

11. Reading details about suicide cases can push vulnerable people taking the extreme step.
(a) Imperious
(b) Impervious
(c) Helpless
(d) Defenseless
12. Standing before a judge in a courtroom can be daunting for anyone.
(a) Uncomfortable
(b) Encouraging
(c) Demoralising
(d) Off-putting
13. There are many factors that constrain the philosophy of job enrichment in practice.
(a) Oblige
(b) Pressure
(c) Restrict
(d) Support
14. The departing speech of the Chairperson ended with a plaintive note.
(a) Melancholic
(b) Gleeful
(c) Doleful
(d) Adventurous
15. The insolent nature of the speaker had provoked the members of the house and this led to pandemonium.
(a) Respectful
(b) Autocratic
(c) Impudent
(d) Thought provoking

Directions – Select the option that is nearest in meaning to the underlined word and mark your response on your answer sheet accordingly.

16. The officer in charge of the operations has been impugned for the excesses.
(a) Expelled
(b) Rewarded
(c) Challenged
(d) Given allowance

17. It was obligatory for the board to implement the rule.
(a) Compulsory
(b) Unnecessary
(c) By chance
(d) Problematic
18. This is akin to a contractual relationship that places obligations on the entities entrusted with data.
(a) Removed
(b) Narrow
(c) Similar
(d) Unparallel
19. A provocative message had been doing rounds on social media to instigate the mob against migrants.
(a) Dexterous
(b) Inflammatory
(c) Valiant
(d) Prudent

20. The authorities have reprimanded subordinate officer for violating the protocol.
(a) Extolled
(b) Purported
(c) Admonished
(d) Required an apology

Directions: you are required to select your answer based on the contents of the passage and opinion of the author only.

Over-eating is one of the most wonderful practices among those who think that they can afford it. In fact, authorities say that nearly all who can get as much as they desire, over-eat to their disadvantage. This class of people could save a great more food then they can save by missing one meal per week and at the same time they could improve their health. A heavy meal at night, the so called 'dinner', is the fashion with many and often is taken shortly before retiring. It is unnecessary and could be forgone, not only once a week but daily without loss of strength. From three to five hours are needed to digest food. While sleeping, this food not being required to give energy for work, is in many cases converted into excess fat, giving rise to over-weight. The evening meal should be light, taken three or four hours before

retiring. This prevents over-eating, conserves energy and reduce the cost of food.

21. Why should those who over-eat refrain from doing so?

- (a) Because over-eating leads to loss of wealth
- (b) Because over-eating is bad for health
- (c) Because over-eating conserves food
- (d) Because over-eating is immoral and unhealthy

22. Over-eating is more prevalent among

- (a) the rich
- (b) the poor
- (c) everybody
- (d) the bourgeoisie

23. The writer is asking the readers

- (a) to skip the heavy dinner and take light evening meal instead
- (b) to stop eating anything at night
- (c) to take food only during the day
- (d) to eat food before the sunset

24. What is the most appropriate time for having evening meal?

- (a) An hour after the sunset
- (b) Three or four hours before sleeping
- (c) Before the sunset
- (d) Just before sleeping

25. According to the passage, how many times a day should we have food?

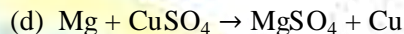
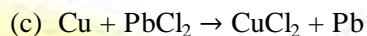
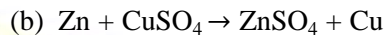
- (a) Three times
- (b) Two times
- (c) Once
- (d) Has not been specified

26. Scattering of α particles by a thin gold foil suggest the presence of

- (a) electron in an atom
- (b) proton in an atom
- (c) positively charged nucleus at the centre of an atom
- (d) isotopes of gold

27. Which one of the following chemical reaction is not feasible?

- (a) $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$



28. Which one of the following acids is produced in human stomach?

- (a) Formic acid
- (b) Sulphuric acid
- (c) Nitric acid
- (d) Hydrochloric acid

29. The property of the sound waves that determines the pitch of the sound is its

- (a) frequency
- (b) amplitude
- (c) wavelength
- (d) intensity

30. Which of the following is not a property of the X-rays?

- (a) They are deflected by electric fields.
- (b) They are not deflected by magnetic fields
- (c) They have high penetration length in matter.
- (d) Their wavelength is much smaller than that of visible light.

31. Which one of the following is not an epidemic disease?

- (a) Cholera
- (b) Malaria
- (c) Smallpox
- (d) Elephantiasis

32. The electromagnetic waves, which are used for satellite communication are

- (a) infrared radiations
- (b) ultraviolet radiations
- (c) radio waves
- (d) visible lights

33. Which of the following endocrine glands is not found in pair in humans?

- (a) Adrenal
- (b) Pituitary
- (c) Testis
- (d) Ovary

34. Who among the following scientists introduced the concept of immunization to the medical world?
- Edward Jenner
 - Robert Koch
 - Robert Hooke
 - Carl Linnaeus
35. On 31st December, 1929 in which one of the following Congress Sessions was proclamation of Purna Swaraj made?
- Ahmedabad
 - Calcutta
 - Lahore
 - Lucknow
36. Which one among the following was demanded by the All India Depressed Class Leaders' Conference at Bombay in 1931?
- Universal adult suffrage
 - Separate electorates for untouchables
 - Reserved seats for the minorities
 - A unitary state in India
37. Who among the following was one of the founder of the Indian society of Oriental Art?
- Rabindranath Tagore
 - Abanindranath Tagore
 - Dwarkanath Tagore
 - Bankim Chandra Chattopadhyaya
38. Who among the following Mongol leaders/commanders did not cross Indus to attack India?
- Chenghiz Khan
 - Tair Bahadur
 - Abdullah
 - Qutlugh Khwaja
39. Nyishi tribe is found mainly in
- Andaman and Nicobar
 - Arunachal Pradesh
 - Nilgiri-Kerala
 - Kashmir Valley
40. In the field of tourism, which one of the following Indian States is described as 'One State Many Worlds'?
- Assam
 - West Bengal
 - Karnataka
 - Rajasthan
41. The number of people per unit area of arable land is termed as
- agricultural density
 - arithmetic density
 - physiological density
 - economic density
42. Which one of the following is not an objective of the MGNREGA?
- Providing up to 100 days of skilled labour in a financial year
 - Creation of productive assets
 - Enhancing livelihood security
 - Ensuring empowerment to women
43. Which one of the following statements with regard to the functioning of the Panchayats is not correct?
- Panchayats may levy, collect and appropriate taxes, duties, tolls, etc.
 - A person who has attained the age of 25 years will be eligible to be a member of a Panchayat
 - Every Panchayat shall ordinarily continue for five years from the date of its first meeting.
 - A Panchayat reconstituted after premature dissolution shall continue only for the remainder of the full period.
44. Which of the following statements is not correct regarding the members of Parliament Local Area Development Scheme (MPLADS)?
- Members of the parliament (MPs) sanction, execute and complete works under the scheme
 - Nominated members of the parliament can recommend works for implementation anywhere in the country
 - The scheme is fully funded by the government of India
 - The annual entitlement per MP is Rs. 5 crore

45. In economics, if a diagram has a line passing through the origin and has 45° angle with either axis and it is asserted that along the line $X = Y$ what is tacitly assumed?

- (a) Both variables are pure numbers.
- (b) Both variables are in the same unit.
- (c) Both variables are in different units.
- (d) At least one variable is a pure number.

46. The famous Mughal painting depicting Jahangir embracing the Safavid King Shah Abbas, was painted by which one of the following Mughal painters?

- (a) Abd-al-Samad
- (b) Abul Hasan
- (c) Dasavant
- (d) Bishandas

47. Overseas Indians can exercise franchise in an election to the Lok Sabha under which of the following conditions?

- 1. They must be citizens of India.
- 2. Their names must figure in the electoral roll.
- 3. They must be present in India to vote.

Select the correct answer using the codes given below.

- (a) 1, 2 and 3
- (b) 2 and 3
- (c) 1 and 2
- (d) Only 1

48. Which one of the following was added as a Fundamental duty through the Constitution (86th Amendment) Act, 2002?

- (a) To strive towards excellence in individual and collective activity
- (b) To provide opportunities for education to one's child between the age of 6 and 14 years
- (c) To work for the welfare of women and children
- (d) To promote peace and harmony

49. The college of Military Engineering affiliated to Jawaharlal Nehru University is situated at

- (a) New Delhi
- (b) Dehradun
- (c) Nainital
- (d) Pune

50. Hilsa is the national fish of

- (a) Pakistan
- (b) India
- (c) Bangladesh
- (d) Nepal

51. What is the remainder when $(17^{29} + 19^{29})$ is divided by 18?

- (a) 6
- (b) 2
- (c) 1
- (d) 0

52. Consider the following statements in respect of two integers p and q (both > 1) which are relatively prime.

- 1. Both p and q may be prime numbers.
- 2. Both p and q may be composite numbers.
- 3. One of p and q may be prime and the other composite

Which of the above statements are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

53. $\frac{1}{25}$ of the students who registered did not appear for the exam, $\frac{11}{20}$ of those who appeared passed. If number of registered students is 2000, the number who passed is

- (a) 1920
- (b) 1056
- (c) 1020
- (d) 864

54. Which one among the following is the largest?

- (a) $\frac{7}{9}$
- (b) $\frac{11}{14}$
- (c) $\frac{3}{4}$
- (d) $\frac{10}{13}$

55. For any two real numbers a and b ,

$\sqrt{(a-b)^2} + \sqrt{(b-a)^2}$ is

- (a) always zero
- (b) never zero
- (c) positive only if $a \neq b$
- (d) positive if and only if $a > b$

56. Three cars A, B and C started from a point at 5 Pm, 6 pm and 7 pm, respectively and travelled at uniform speeds of 60 km/h, 80 km/h and x km/h, respectively in the same direction. If all the three meet at another point at the same instant during their journey, then what is the value of x?

- (a) 120
- (b) 110
- (c) 105
- (d) 100

57. In a race of 1000m, A beats B by 150 m, while in another race of 3000 m, C beats D by 400 m. Speed of B is equal to that of D. (Assume that A, B, C and D run with uniform speed in all the events). If A and C participate in a race of 6000 m, then which one of the following is correct?

- (a) A beats C by 250 m
- (b) C beats A by 250 m
- (c) A beats C by 115.38 m
- (d) C beats A by 115.38 m

58. Two workers 'A' and 'B' working together completed a job in 5 days. Had 'A' worked twice as efficiently as he actually did and 'B' worked one-third as efficiently as he actually did, the 3 days. In how many days could 'A' alone complete the job?

- (a) $3\frac{1}{2}$ days
- (b) $4\frac{1}{6}$ days
- (c) $5\frac{1}{2}$ days
- (d) $6\frac{1}{4}$ days

59. In an examination, 50% of the candidates failed in English, 40% failed in Hindi and 15% failed in both the subjects. The percentage of candidates who passed in both English and Hindi is

- (a) 20%
- (b) 25%
- (c) 60%
- (d) 75%

60. A candidate scoring x% marks in an examination and fails by a marks, while another candidate who scores y% marks gets b marks more than the minimum required pass marks.

What is the maximum marks for the examination?

- (a) $\frac{100(a+b)}{x-y}$
- (b) $\frac{100(a-b)}{x+y}$
- (c) $\frac{100(a+b)}{y-x}$
- (d) $\frac{100(a-b)}{x-y}$

61. A person borrowed Rs. 5,000 at 5 % rate of interest per annum and immediately lent it at 5.5 %. After two years he collected the amount and settled his loan. What is the amount gained by him in this transaction?

- (a) Rs. 25
- (b) Rs. 50
- (c) Rs. 100
- (d) Rs. 200

62. If a sum of money at a certain rate of simple interest per year doubles in 5 yr and at a different rate of simple interest per year becomes three times in 12 yr, then the difference in the two rates of simple interest per year is

- (a) 2%
- (b) 3%
- (c) $3\frac{1}{3}\%$
- (d) $4\frac{1}{3}\%$

63. An article is sold at a profit of 32%. If the cost price is increased by 20% and the sale price remains the same, then the profit percentage becomes

- (a) 10%
- (b) 12%
- (c) 15%
- (d) 20%

64. When an article is sold at 20% discount, the selling price is Rs. 24. What will be the selling price when the discount is 30%?

- (a) Rs. 25
- (b) Rs. 23
- (c) Rs. 21
- (d) Rs. 20

65. An alloy A contains two elements, copper and tin in the ratio of 2 : 3, whereas an alloy B contains the same elements in the ratio of 3 : 4. If 20 Kg of alloy A, 28 kg of alloy B and some more pure copper are mixed to form a third alloy C which now contains copper and tin in the ratio of 6 : 7, then what is the quantity of pure copper mixed in the alloy C?

- (a) 3 kg
- (b) 4 Kg
- (c) 5 kg
- (d) 7 kg

66. If the average of 9 consecutive positive integers is 55, then what is the largest integer?

- (a) 57
- (b) 58
- (c) 59
- (d) 60

67. An aeroplane flying at a height of 3000m passes vertically above another aeroplane at an instant, when the angles of elevation of the two planes from some point on the ground are 60° and 45° , respectively. Then, the vertical distance between the two planes is

- (a) $1000(\sqrt{3} - 1)m$
- (b) $1000\sqrt{3}m$
- (c) $1000(3 - \sqrt{3})m$
- (d) $3000(3 - \sqrt{3})m$

68. In a rectangle, length is three times its breadth of the rectangle are increased by 30% and 10% respectively, then its perimeter increased by

- (a) 40/3%
- (b) 20%
- (c) 25%
- (d) 27%

Directions – Find the missing term in each of the following series:

69. Which fraction comes next in the sequence

$$\frac{1}{2}, \frac{3}{4}, \frac{5}{8}, \frac{7}{16} ?$$

- (a) $\frac{9}{32}$
- (b) $\frac{10}{17}$
- (c) $\frac{11}{34}$
- (d) $\frac{12}{35}$

70. 2, 3, 3, 5, 10, 13, ?, 43, 172, 177

- (a) 23
- (b) 38
- (c) 39
- (d) 40

71. PMT, OOS, NQR, MSQ, ?

- (a) LUP
- (b) LVP
- (c) LVR
- (d) LWP

72. gfe__ig__eii__fei__gf__ii

- (a) eifgi
- (b) figie
- (c) ifgie
- (d) ifige

Directions – Choose the correct alternative.

73. Mountain : Hill: : Tree : ?

- (a) ground
- (b) leaf
- (c) forest
- (d) shrub

74. Squint : Eye :: Squeeze : ?

- (a) Tongue
- (b) Cloth
- (c) Throat
- (d) Hand

75. Wood is related to Charcoal in the same way as Coal is related to _____?_____

- (a) Fire
- (b) Smoke
- (c) Coke
- (d) Ash

Directions – Select the lettered pair that has the same relationship as the original pair of words.

76. Chalk : Blackboard

- (a) Type : Paint
- (b) Table : Chair
- (c) Ink : Paper
- (d) Door : Handle

Directions – Choose the odd one.

77.

- (a) Curd
- (b) Butter
- (c) Oil
- (d) Cheese

78.

- (a) Jordan
- (b) Bhutan
- (c) Turkey
- (d) Spain

79. If DELHI can be coded as CCIDD, how would you code BOMBAY?

- (a) AJMTVT
- (b) AMJXVS
- (c) MJXVSU
- (d) WXYZAX

80. If 'wall' is called 'window', 'window' is called 'door' 'door' is called 'floor', 'floor' is called 'roof' and 'roof' is called 'ventilator', what will a person stand on?

- (a) Window
- (b) Wall
- (c) Floor
- (d) Roof

81. Pointing to a lady, a man said, "The son of her only brother is the brother of my wife." How is the lady related to the man?

- (a) Mother's sister
- (b) Grandmother
- (c) Mother-in-law
- (d) Sister of father-in-law

82. Pointing to a photograph, a woman says, "This man's son's sister is my mother-in-law." How is the woman's husband related to the man in the photograph?

- (a) Grandson
- (b) Son
- (c) Son-in-law
- (d) Nephew

83. A man walks 30 meters towards South. Then, turning to his right, he walks 30 meters. Then, turning to his left, he walks 20 metres. Again, he turns to his left and walks 30 metres. How far is he from his initial position?

- (a) 20 metres
- (b) 30 metres
- (c) 60 metres
- (d) None of these

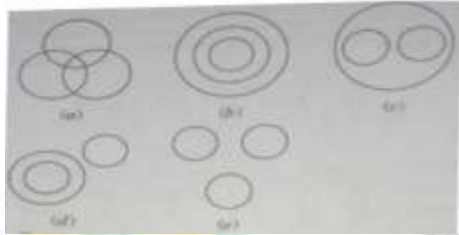
84. From his house, Lokesh went 15 km to the North. Then he turned West and covered 10 km. Then he turned South and covered 5 km. Finally, turning to East, he covered 10 km. In which direction is he from his house?

- (a) East
- (b) West
- (c) North
- (d) South

85. One evening before sunset two friends Sumit and Mohit were talking to each other face to face. If Mohit's shadow was exactly to his right side, which direction was Sumit facing?

- (a) North
- (b) South
- (c) West
- (d) None of these

Directions - (Q. No. 86 and 87): In each of these questions, three words are related in some way. The relationship among the words in the question can best be represented by one of the five diagrams (a), (b), (c), (d) and (e) given below. Mark your answer accordingly.

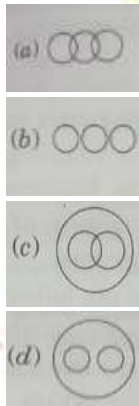


86. Fish, Herring, Animals living in water

87. Hospital, Nurse, Patient

Directions - Identify the diagram that best represents the relationship among classes given below:

88. Animals, Land Animals, Sea animals.

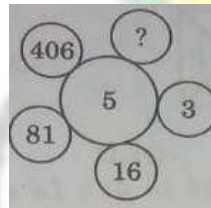


89. Ajay ranked sixteenth from the top and twenty-ninth from the bottom among those who passed an examination. Six boys did not participate in the competition and five failed in it. How many boys were there in the class?

- (a) 40
- (b) 44
- (c) 50
- (d) 55

90. If 'when' means ' \times ', 'you' means ' \div ', 'come' means '-' and 'will' means '+', then what will be the value of "8 when 12 will 16 you 2 come 10"?

- (a) 45
- (b) 94
- (c) 96
- (d) 112



91.

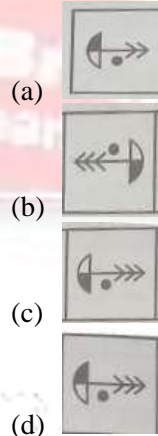
- (a) 1
- (b) 731
- (c) 1625
- (d) 2031

Directions - Select a figure from amongst the Answer figures which will continue the series established by the four problem figures

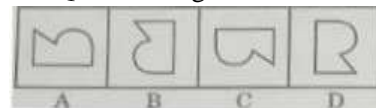
Question Figure



92.

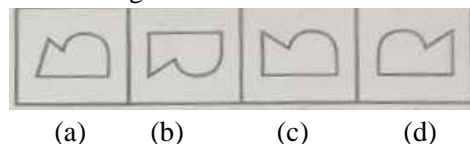


Question Figure



93.

Answer Figure



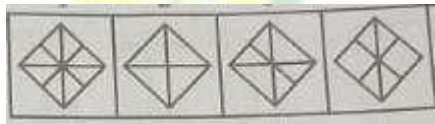
- (a)
- (b)
- (c)
- (d)

Directions- There is a definite relationship between figures A and B. Establish a similar relationship between figures C and D by selecting a suitable figure from the Answer set that would replace the question mark (?) in fig. (d).

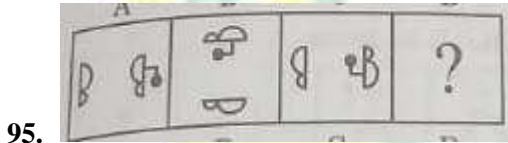
Problem Figure



Answer Figure



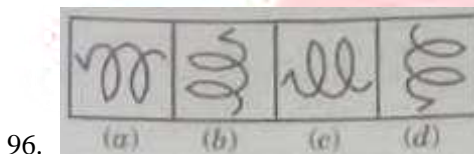
Problem Figure



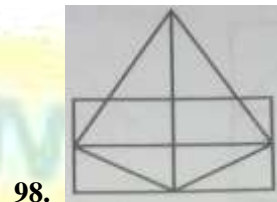
Answer Figure



Directions – Choose the figure which is different from the rest.

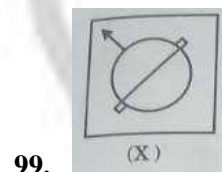


Directions – In each of the following questions, find the number of triangles in the given figure.



- (a) 11
- (b) 13
- (c) 15
- (d) 17

Directions – Choose the correct mirror-image of the Fig. (X) from amongst the four alternative (a), (b), (c) and (d) given along with it.



Directions – Choose the alternatives which most closely resembles the water-images of the given combination.

100. PQ8AF5BZ9

- (a) Ɔ08VƆ2BZ8
- (b) Ɔ08VƆ2BZ6
- (c) Ɔ08VƆ9BZ9
- (d) Ɔ08VƆ2BZ9

AFCAT SAMPLE PAPER ANSWERKEY

1	D	11	B	21	B	31	C	41	C	51	D	61	B
2	A	12	B	22	A	32	C	42	B	52	D	62	C
3	B	13	D	23	A	33	B	43	B	53	B	63	A
4	B	14	B	24	B	34	A	44	A	54	B	64	C
5	B	15	A	25	D	35	C	45	B	55	C	65	B
6	B	16	C	26	C	36	B	46	B	56	A	66	C
7	A	17	A	27	C	37	B	47	A	57	C	67	C
8	B	18	C	28	D	38	A	48	B	58	D	68	C
9	D	19	B	29	A	39	B	49	D	59	B	69	A
10	A	20	C	30	A	40	C	50	C	60	C	70	C

71	A	81	D	91	D
72	C	82	A	92	D
73	D	83	D	93	C
74	D	84	C	94	A
75	C	85	B	95	A
76	C	86	B	96	C
77	C	87	C	97	B
78	C	88	C	98	C
79	B	89	D	99	C
80	D	90	B	100	D

A Trusted Brand
from 18 Years

from 18 Years

Since - 2003
Since - 2003