

Indian Air Force AFCAT 2022 (Memory Based)

Directions (1-5): Read the following passage and answer the following questions given below

We should preserve Nature to preserve life and beauty. A beautiful landscape, full of green vegetation, will not just attract our attention but will fill us with infinite satisfaction. Unfortunately, because of modernization, much of nature is now yielding to towns, roads and industrial areas. In a few places, some natural reserves are now being carved out to avert the danger of destroying nature completely. Man will perish without nature, so modern man should continue this struggle to save plants, which give us oxygen, from extinction. Moreover, nature is essential to man's health.

Q1. What does "Nature" in the passage mean?

- (a) Countryside covered with plants and trees.
- (b) Physical power that created the world.
- (c) Inherent things that determine character.
- (d) Practical study of plants and animals

Q2. According to the passage, which one of the following is the correct statement?

- (a) Beauty is only skin-deep.
- (b) Everything is beautiful in its natural state.
- (c) There is beauty in nature.
- (d) Nature is a moral teacher.

Q3. What does the writer suggest?

- (a) We should not modernize, so that nature can be preserved.
- (b) While modernizing, we should be careful not to destroy nature completely.
- (c) All nature has been destroyed by modern living.
- (d) Carving out natural reserves will hamper the growth of industries.

Q4. What does "struggle" in the passage mean?

- (a) Man's struggle to exist in the world.
- (b) Man's struggle to save nature.
- (c) Man's struggle to catch up with modern trends.
- (d) Man's struggle to conserve oxygen.

Q5. Why a beautiful landscape "will fill" with infinite satisfaction"?

- (a) We love beauty.
- (b) It is full of great vegetation.
- (c) It will ensure our future existence.
- (d) It will show our command over nature.

Directions (6-10): Read the sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. Spot the error from the given options.

Q6. This cup of steaming coffee (A)/ is too hot to (B)/, drink it.(C)/ No error (D)

- (a) A
- (b) B
- (c) C
- (d) D

Q7. You must mend your ways (A)/ lest you should (B)/ not fall in any trap.(C)/ No error (D)

- (a) A
- (b) B
- (c) C
- (d) D

Q8. The pre-recorded (A)/ statement of the witness (B)/ was produced before the court. (C)/ No error (D)

- (a) A
- (b) B
- (c) C
- (d) D

Q9. Dr. Radha Krishnan (A)/ was an educated (B)/ man of letters(C)/ No error (D)

- (a) A
- (b) B
- (c) C
- (d) D

Q10. His speech (A)/ vaguely ambiguous as (B)/ we could not understand what was the exact topic of his speech(C)/ No error (D)

- (a) A
- (b) B
- (c) C
- (d) D

Directions (11-15): Fill in the blank with the most appropriate word from the given options.

Q11. He knows French and German _____Russian.

- (a) beside
- (b) besides
- (c) aside
- (d) Except

Q12. His reputation has been _____ by his foolish acts.

- (a) increased
- (b) decreased
- (c) retrieved
- (d) Tainted

Q13. Meditation is _____ way to calm your nerves.

- (a) a best
- (b) one of the best
- (c) the best
- (d) an best

Q14. An honest person lives by

- (a) the sweat of one's brows
- (b) sweetness of other
- (c) Kindness of others
- (d) At other's compassion

Q15. A light breeze the forest fire and made it more dangerous

- (a) restricted
- (b) fanned
- (c) hampered
- (d) obstructed

Directions (16-17): In the following question, out of the given alternatives, choose the best one which expresses the meaning of the given word.

Q16. Reprimand

- (a) Pacify
- (b) Scold
- (c) Persuade
- (d) Please

Q17. PREJUDICE

- (a) Aversion
- (b) Gestation
- (c) Preliminary
- (d) Admiration

Directions (18-19): In the following question, out of the given alternatives, choose the best one which expresses the opposite of the given word.

Q18. HAUGHTY

- (a) Pitiable
- (b) Scared
- (c) Humble
- (d) Cowardly

Q19. COLOSSAL

- (a) Tiny
- (b) colourful
- (c) evident
- (d) Immense

Directions (20-22). The given idiom is followed by four meanings. Choose the one which best expresses the meaning of the given idiom:-

Q20. Jaundiced Eye

- (a) To be very pleased
- (b) To have yellowish eyes
- (c) To be prejudiced
- (d) To have sore eyes

Q21. Take time by the FORELOCK

- (a) making money
- (b) To seize an opportunity
- (c) in danger
- (d) spending money

Q22. Hall Over the Coals

- (a) To scold
- (b) to enter into the class
- (c) to bear the criticism
- (d) to listen to a favourable comment

Directions (23-25): Select the most appropriate word that can be substituted for the given words/ sentences

Q23. Amusing and Interesting story

- (a) Essay
- (b) Anecdote
- (c) Antidote
- (d) Tale

Q24. Replacement of a missing part by an artificial substitute

- (a) autopsy
- (b) surgery
- (c) operation
- (d) Prosthesis

Q25. A divine force that some people believe controls our lives and in a way protects us.

- (a) Delinquent
- (b) Providence
- (c) Vulnerable
- (d) Astronomer

Directions (26-30): Each of the following sentences in this section has a blank space with four words or group of words given. Select whichever word or group of words you consider most appropriate for the blank space and indicate your response on the Answer Sheet accordingly.

Q26. There are a number of (26) reasons not to travel by a public transport. There is the (27) of the time-table. Then, there are (28) about getting a seat, waiting at bus-stops and so on. yet, there are deeper reasons why many of us (29) away from public transport Each of us has our own set of (30) and opinions against public transport.

- (a) vague
- (b) varying
- (c) valid
- (d) forbidden

Q27. There are a number of (26) reasons not to travel by a public transport. There is the (27) of the time-table. Then, there are (28) about getting a seat, waiting at bus-stops and so on. yet, there are deeper reasons why many of us (29) away from public transport Each of us has our own set of (30) and opinions against public transport.

- (a) atrocity
- (b) rigidity
- (c) cupidity
- (d) ferocity

Q28. There are a number of (26) reasons not to travel by a public transport. There is the (27) of the time-table. Then, there are (28) about getting a seat, waiting at bus-stops and so on. yet, there are deeper reasons why many of us (29) away from public transport Each of us has our own set of (30) and opinions against public transport.

- (a) concern
- (b) delights
- (c) obstructions
- (d) concerns

Q29. There are a number of (26) reasons not to travel by a public transport. There is the (27) of the time-table. Then, there are (28) about getting a seat, waiting at bus-stops and so on. yet, there are deeper reasons why many of us (29) away from public transport Each of us has our own set of (30) and opinions against public transport.

- (a) struggle
- (b) shy
- (c) gets
- (d) get

Q30. There are a number of (26) reasons not to travel by a public transport. There is the (27) of the time-table. Then, there are (28) about getting a seat, waiting at bus-stops and so on. yet, there are deeper reasons why many of us (29) away from public transport Each of us has our own set of (30) and opinions against public transport.

- (a) prejudices
- (b) understanding
- (c) principles
- (d) frustration

Q31. Which Aircraft carrier was also known as the Grand Old Lady?

- (a) INS VIJAY
- (b) INS VIKRANT
- (c) INS VIRAAT
- (d) INS PARAM

Q32. Anju Bobby George is related to which sport?

- (a) Boxing
- (b) Long Jump
- (c) Running
- (d) Weight lifting

Q33. Which of the following Military exercise are going to conduct between India Army and United States Army in February 2021?

- (a) JIMEX
- (b) Yudh Abhyas
- (c) INDRA
- (d) SILNEX

Q34. ASTRA missile is which type of Missile?

- (a) Surface to Air missile
- (b) both c and d
- (c) Air to Surface missile
- (d) Air to Air Missile

Q35. Bal Gangadhar Tilak is related to which movement?

- (a) Home Rule Movement
- (b) Bharat Chodo
- (c) Satyagraha
- (d) Dandi Yatra

Q36. Green Army is related to which country?

- (a) USA
- (b) India
- (c) Australia
- (d) Nepal

Q37. Who is the author of the book “Sauz-e-watan”?

- (a) Lala Lajpat Rai
- (b) Bhagat Singh
- (c) Kiran Desai
- (d) Prem Chand

Q38. Ten Degree Channel passes through which place?

- (a) South Korea and North Korea
- (b) India and Sri Lanka
- (c) Andaman and Nicobar Islands
- (d) Japan and China

Q39. Drafting Committee was headed by whom in the Making of the Constitution? (a) Pt. Jawaharlal Nehru

- (b) BR Ambedkar
- (c) Dr. Sachchidanand Sinha
- (d) Sardar Vallabhbhai Patel

Q40. Karagam Dance is related to which state?

- (a) Tamil Nadu
- (b) Andhra Pradesh
- (c) Kerala
- (d) Nagaland

Q41. Silicon Valley is situated in?

- (a) USA
- (b) Pakistan
- (c) China
- (d) Russia

Q42. What is the capital of Kyrgyzstan?

- (a) Beirut
- (b) Riga
- (c) Male
- (d) Bishkek

Q43. Arrange the rings left to right of Olympic Logo?

- (a) Blue – Black – Yellow – Red – Green
- (b) Blue – Yellow – Black – Green – Red
- (c) Blue – Yellow – Green – Black – Red
- (d) Blue – Yellow – Black – Red – Green

Q44. Instrument used to measure Humidity?

- (a) Thermometer
- (b) Stethoscope
- (c) Hygrometer
- (d) Catheter

Q45. Name of NASA + ESA + Italian Space Agency probe to Saturn?

- (a) ESNAIT
- (b) CASINNI
- (c) NASA
- (d) CASSINI

Q46. Match the following?

Artist	Instrument
1. Ustad Bismillah Khan	A. Shehnai
2. Ustad Vilayat Khan	B. Sitar
3. Amjad Ali Khan	C. Sarod
4. VG Jog	D. Violin

- (a) 1-A , 2-B , 3-D , 4-C
- (b) 1-C , 2-B , 3-A , 4-D
- (c) 1-A , 2-D , 3-C , 4-B
- (d) 1-A , 2-B , 3-C , 4-D

Q47. What is the 86th Amendment Act related to?

- (a) Right to Property
- (b) Right to Education
- (c) Right to Speech
- (d) Right to Freedom

Q48. Gandhiji presided over which Congress session?

- (a) 1926, Guwahati
- (b) 1922, Gaya
- (c) 1924, Belgaum
- (d) 1916, Lucknow

Q49. Hydrogen bomb works on the principle of ?

- (a) Nuclear Fusion
- (b) Nuclear Fission
- (c) both a and b
- (d) none of the above

Q50. Headquarters of United New Agency?

- (a) Noida
- (b) Bangalore
- (c) Mumbai
- (d) New Delhi

Q51. Countries which have signed CEPA in February 2022?

- (a) India, UAE
- (b) India, USA
- (c) India, Israel
- (d) India, France

Q52. Which revolutionary of the Kakori case was hanged in Gorakhpur Prison?

- (a) Ashfaq Ullah Khan
- (b) Deen Dyal Sharma
- (c) Bhagat Singh
- (d) Ram Prasad Bismil

Q53. Ozone Layer thickness is measured in which unit?

- (a) Dobson Unit
- (b) Newton
- (c) joule
- (d) Pascal

Q54. Which of the following human diseases are caused by bacteria?

- (a) Measles
- (b) Polio
- (c) Hepatitis B
- (d) Typhoid

Q55. What is the name of the engine used in Gaganyaan Mission?

- (a) Apsara
- (b) Vikas
- (c) Vikram
- (d) Vijay

Q56. The unequal side of an isosceles triangle is 2 cm. The medians drawn to the equal sides are perpendicular. The area of the triangle is:

- (a) 1 cm^2
- (b) 3 cm^2
- (c) 5 cm^2
- (d) 2 cm^2

Q57. The speed of boat in still water is 38 km/hrs. It covers (upstream) a distance of 147 km in 5 hours 15 minutes. Find the speed of stream.

- (a) 10 km/hr
- (b) 12 km/hr
- (c) 16 km/hr
- (d) 14 km/hr

Q58. The ratio of milk and water in a mixture is 7:5. How much part of the mixture should be replaced by water so that ratio of milk and water is 2:3?

- (a) $\frac{11}{35}$
- (b) $\frac{11}{25}$
- (c) $\frac{13}{24}$
- (d) $\frac{13}{36}$

Q59. 12 buckets of water fill a tank when the capacity of each bucket is 13.5 litres. How many buckets will be needed to fill the same tank, if the capacity of each bucket is 9 litres?

- (a) 18
- (b) 16
- (c) 15
- (d) 17

Q60. 3 men, 4 women and 6 children can complete a work in 7 days. A woman does double the work a man does and a child does half the work a man does. How many women alone can complete this work in 7 days?

- (a) 6
- (b) 8
- (c) 9
- (d) 7

Q61. A boy increases his speed to $\frac{9}{5}$ times of his original speed. By this he reaches his school 30 minutes before the usual time. How much time does he takes usually?

- (a) 67.50 minutes
- (b) 67.10 minutes
- (c) 67.75 minutes
- (d) 67.25 minutes

Q62. The speed of a car increases by 2 km/h after every one hour. If the distance travelled in the first one hour was 35 km, what was the total distance travelled in 12 hours?

- (a) 558 km
- (b) 650 km
- (c) 560 km
- (d) 552 km

Q63. A man could not decide between discount of 30% or two successive discounts of 25% and 5%, both given on a shopping of Rs. 2,000. What is the different between both the discounts?

- (a) Rs. 15
- (b) No difference
- (c) Rs. 20
- (d) Rs. 25

Q64. Seema bought a mobile and she got 20% discount on it. If she had got 25% discount, she could have saved an extra Rs.1000. what is the marked price of mobile.

- (a) 24000
- (b) 22000
- (c) 25000
- (d) 20000

Q65. In an examination, 47% passed in science and 51% failed in mathematics. If 42% failed in both subjects, what percentage passed in both subjects?

- (a) 38%
- (b) 42%
- (c) 40%
- (d) 36%

Q66. If the income of A is 24% less than income of B, then what percentage is B's income is more than that of A?

- (a) $\frac{600}{31}\%$
- (b) $\frac{600}{17}\%$
- (c) $\frac{600}{29}\%$
- (d) $\frac{600}{19}\%$

Q67. A watch which gains uniformly is 2 minutes low at noon on Monday and is 4 min. 48 sec fast at 2 p.m. on the following Monday. When was it correct?

- (a) 2 p.m. on Tuesday
- (b) 2 p.m. on Wednesday
- (c) 3 p.m. on Thursday
- (d) 1 p.m. on Friday

Q68. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?

- (a) $\frac{1}{2}$
- (b) $\frac{1}{8}$
- (c) $\frac{8}{15}$
- (d) $\frac{9}{20}$

Q69. 3, 5, 11, 14, 17, 21

- (a) 21
- (b) 17
- (c) 14
- (d) 5

Q70. 27, 64, 125, 216, 256, 343,

- (a) 27
- (b) 256
- (c) 125
- (d) 343

Q71. When the integer n is divided by 7, the remainder is 3. What is the remainder if $5n$ is divided by 7?

- (a) 0
- (b) 3
- (c) 2
- (d) 1

Q72. A number is first decreased by 10% and then increased by 10%. The number so obtained is 100 less than the original number. The original number is:

- (a) 100000
- (b) 100
- (c) 10000
- (d) 1000

Q73. $\frac{0.72 \times 0.72 \times 0.72 - 0.39 \times 0.39 \times 0.39}{0.72 \times 0.72 + 0.72 \times 0.39 + 0.39 \times 0.39}$ is equal to:

- (a) 0.33
- (b) 0.45
- (c) 0.39
- (d) 0.36

Q74. The average of 26 numbers is zero. Of them, how many may be greater than zero, at the most?

- (a) 0
- (b) 25
- (c) 20
- (d) 15

Q75. The perimeter of a square is equal to the perimeter of a rectangle of length 16 cm and breadth 14 cm. Find the circumference of a semicircle whose diameter is equal to the side of the square.

- (a) 25.57 cm
- (b) 38.57 cm
- (c) 23.57 cm
- (d) 21.57 cm

Q76. Choose the correct appropriate answer.

Arrange the words given below in a meaningful sequence.

1. Income 2. Status 3. Education

4. Well-being 5. Job

(a) 3, 1, 5, 2, 4

(b) 1, 3, 2, 5, 4

(c) 1, 2, 5, 3, 4

(d) 3, 5, 1, 2, 4

Q77. Choose the correct appropriate answer.

Arrange the words given below in a meaningful sequence.

1. Heel 2. Shoulder 3. Skull 4. Neck 5. Knee

6. Chest 7. Thigh 8. Stomach 9. Face 10. Hand

(a) 3, 4, 7, 9, 2, 5, 8, 10, 6, 1

(b) 3, 9, 4, 2, 10, 6, 8, 7, 5, 1

(c) 2, 4, 7, 10, 1, 5, 8, 9, 6, 3

(d) 4, 7, 10, 1, 9, 6, 2, 5, 8, 3

Directions (78-80): In each of the following questions two statements are given and these statements are followed by two conclusions numbered (1) and (2). 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 conclusions and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Q78. Choose the correct appropriate answer.

Statements: Some actors are singers. All the singers are dancers.

Conclusions:

Some actors are dancers.

No singer is actor.

(a) Only (1) conclusion follows

(b) Only (2) conclusion follows

(c) Either (1) or (2) follows

(d) Neither (1) nor (2) follows

Q79. Choose the correct appropriate answer.

Statements: All the harmoniums are instruments. All the instruments are flutes.

Conclusions:

All the flutes are instruments.

All the harmoniums are flutes.

(a) Only (1) conclusion follows

(b) Only (2) conclusion follows

(c) Either (1) or (2) follows

(d) Neither (1) nor (2) follows

Q80. Choose the correct appropriate answer.

Statements: Some mangoes are yellow. Some tixo are mangoes.

Conclusions:

Some mangoes are green.

Tixo is a yellow.

- (a) Only (1) conclusion follows
- (b) Only (2) conclusion follows
- (c) Either (1) or (2) follows
- (d) Neither (1) nor (2) follows

Directions (81-82): Each of these questions is based on the following information:

M % N means M is the son of N.

M @ N means M is the sister of N.

M \$ N means M is the father of N.

Q81. Choose the correct appropriate answer.

Which of the following shows the relation that C is the granddaughter of E?

- (a) C % B \$ F \$ E
- (b) B \$ F \$ E % C
- (c) C @ B % F % E
- (d) E % B \$ F \$ C

Q82. Choose the correct appropriate answer.

Which of the following shows the relation that S is the father of Q?

- (a) S @ P \$ Q
- (b) Q @ P % S
- (c) Q \$ S @ P
- (d) None of these

Directions (83-86): Six girls are sitting in a circle facing to the centre of the circle. They are P, Q, R, S, T and V. T is not between Q and S but some other one. P is next to the left of V. R is 4th to the right of P.

Q83. Choose the correct appropriate answer.

Which of the following statement is not true ?

- (a) S is just next to the right to R
- (b) T is just next to the right of V
- (c) R is second to the left of T
- (d) P is second to the right of R

Q84. Choose the correct appropriate answer.

If P and R interchange their positions then which of the following pair will sit together ?

- (a) RT
- (b) PV
- (c) VT
- (d) QV

Q85. Choose the correct appropriate answer.

What is the position of T ?

- (a) Just next to the right of Q
- (b) Second to the left of P
- (c) Between Q and R
- (d) To the immediate right of V

Q86. Choose the correct appropriate answer.

Which one is sitting just right to the V?

- (a) P
- (b) T
- (c) R
- (d) S/Q

Q87. Choose the correct appropriate answer.

Two bus tickets from city A to B and three tickets from city A to C cost Rs. 77 but three tickets from city A to B and two tickets from city A to C cost Rs. 73. What are the fares for cities B and C from A ?

- (a) Rs. 4, Rs. 23
- (b) Rs. 13, Rs. 17
- (c) Rs. 15, Rs. 14
- (d) Rs. 17, Rs. 13

Q88. Choose the correct appropriate answer.

An institute organised a fete and $\frac{1}{5}$ of the girls and $\frac{1}{8}$ of the boys participated in the same. What fraction of the total number of students took part in the fete ?

- (a) $\frac{2}{13}$
- (b) $\frac{13}{40}$
- (c) Data inadequate
- (d) None of these

Q89. Choose the correct appropriate answer.

gfe _ ig _ eii _ fei _ gf _ ii

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

Q90. Choose the correct appropriate answer.

_ a _ b _ abaa _ bab _ abb

- (a) aaabb
- (b) ababb
- (c) babab
- (d) babba

Q91. Choose the correct appropriate answer.

Sachin walks 20 km towards North. He turns left and walks 40 km. He again turns left and walks 20 km. Finally he moves 20 km after turning to the left. How far is he from his starting position?

- (a) 20 km.
- (b) 30 km.
- (c) 50 km.
- (d) 60 km.

Q92. Choose the correct appropriate answer.

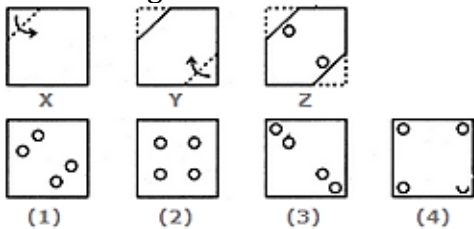
From his house, Lokesh went 15 km to the North. Then he turned west and covered 10 km. Then he turned south and covered 5 km. Finally turning to the east, he covered 10 km. In which direction is he from his house?

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

Directions (93-94): Each of the following questions consists of a set of three figures X, Y and Z showing a sequence of folding of a piece of paper. Figure (Z) shows the manner in which the folded paper has been cut. These three figures are followed by four answer figures from which you have to choose a figure which would most closely resemble the unfolded form of figure (Z).

Q93. Choose the correct appropriate answer.

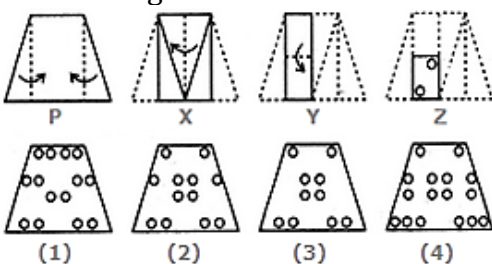
Choose a figure which would most closely resemble the unfolded form of Figure (Z).



- (a) 1
- (b) 2
- (c) 3
- (d) 4

Q94. Choose the correct appropriate answer.

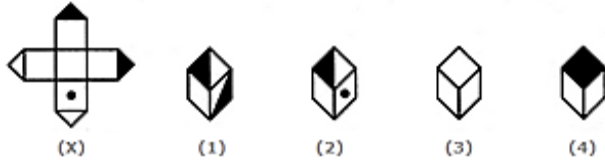
Choose a figure which would most closely resemble the unfolded form of Figure (Z).



- (a) 1
- (b) 2
- (c) 3
- (d) 4

Q95. Choose the correct appropriate answer.

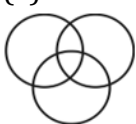


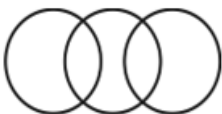
Choose the box that is similar to the box formed from the given sheet of paper (X).





- (a) 1 and 2 only
- (b) 2 and 4 only
- (c) 2 and 3 only
- (d) 1 and 4 only

Directions (96-100): Each of these questions given below contains three elements. These elements may or may not have some inter-linkage. Each group of elements may fit into one of these diagrams at (A), (B), (C) or (D). you have to indicate the group of elements which correctly fits into the diagrams.

Q96. Which of the following diagrams indicates the best relation between Cat, Mammal and Parrot?

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

Q97. Which of the following diagrams indicates the best relation between World, Asia and Nepal?

- (a) 
- (b) 

(c)



(d)

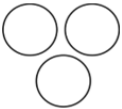


Q98. Which of the following diagrams indicates the best relation between Females, Mothers, Fathers

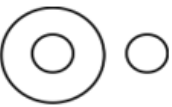
(a)



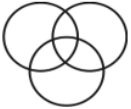
(b)



(c)



(d)



Q99. Which of the following diagrams indicates the best relation between Jaisalmer, Jaipur and Rajasthan

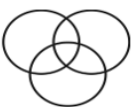
(a)



(b)



(c)

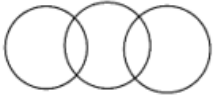


(d)



Q100. Which of the following diagrams indicates the best relation between Father, Doctor and Singers?

(a)



(b)



(c)



(d)

