

MBA sample question paper of Anna University Distance Education Entrance Test (DEET)

DIRECTIONS for questions 1 to 4: Each question has a word that has been used in a sentence that gives its contextual usage. From the choices, choose the word that is the most appropriate substitute for the question word, in the context.

1. Scoffed(at): A 20% growth in exports is not something to be scoffed at.  
(1) tanned (2) appreciated (3) devalued (4) followed
2. Flamboyance: Mr. Sarkar is known for his flamboyance but little else.  
(1) exaggeration (2) flagellation (3) industry (4) ostentation
3. Reiterate: The minister in his speech has reiterated the established policy stance.  
(1) repeated (2) opposed (3) supported (4) encouraged
4. Corroborative: It is not always possible to obtain corroborative evidence in insurgency cases.  
(1) authentic (2) misleading (3) spurious (4) confirmative

DIRECTIONS for questions 5 to 8: For each word given below, a contextual usage is provided. From the alternatives given, pick the word that is the most inappropriate substitute for the question word, in the given context.

5. Jaundiced: The disillusioned prisoners of war developed a jaundiced view of the UN's peace initiatives.  
(1) cynical (2) puerile (3) pessimistic (4) disenchanting
6. Desecrated: The suburb was tense after an idol had been desecrated by hooligans.  
(1) vandalized (2) violated (3) defaced (4) impaired
7. Winding: Driving down the winding ghat roads requires great caution and skill.  
(1) serpentine (2) aligned (3) sinuous (4) tortuous
8. Straitened: The sudden death of the patriarch left the family in straitened circumstances.  
(1) penurious (2) destitute (3) dire (4) impoverished

DIRECTIONS for Questions 9 to 12: In each question, the word at the top of the table is used in four different ways, numbered 1 to 4. Choose the option in which the usage of the word is INCORRECT or INAPPROPRIATE.

9. Shadow

- 1 The children were having fun chasing each other's shadow.
- 2 Though I tried hard, her work put mine in the shadow.
- 3 People live under the shadow of fear in a military regime.
- 4 I knew beyond a shadow of doubt that he was lying.

10. Bill

- 1 Post the bill quickly lest anyone should notice it.
- 2 His suffering from severe cold can be easily made out from his bill.
- 3 Look how sharp the bill of that woodpecker is.
- 4 The bill was passed by 290 votes to 85.

11. Concerned

- 1 We should make no compromise where safety is concerned.
- 2 Parents are concerned about excessive violence on television.
- 3 They were more concerned about how the speaker was dressed than about what she was saying.
- 4 She has started making a concerned effort to find a job.

12. Flag

- 1 Unless we flag him without food for two more days, he will not speak the truth.
- 2 Though indefatigable, he began to flag before the match ended.
- 3 Can you flag all the relevant pages in this book?
- 4 No other flag can be hoisted here except ours.

DIRECTIONS for questions 13 to 16: Select the correct word/words from the choices that complete the given sentence. Please note that more than once choice may fit in to make a syntactically correct sentence but select the choice that is logical in the context of the sentence.

13. An experienced politician, who knew better than to launch a campaign in troubled political waters, she intended to wait for a more \_\_\_\_\_ occasion before she announced her plans.

- (1) propitious (2) provocative (3) questionable (4) perfect

14. The judge ruled that the evidence was inadmissible on the grounds that it was not \_\_\_\_\_ to the issue at hand

- (1) useful (2) germane (3) manifest (4) inchoate

15. To seek \_\_\_\_\_ from the \_\_\_\_\_ summer of the plains, many people prefer going to cooler climes during the summer months.

- (1) refuge . . . scalding (2) shelter . . . boiling (3) respite . . . scorching (4) solace . . . blazing

16. The columnist was almost \_\_\_\_\_ when he mentioned his friends but he was unpleasant and even \_\_\_\_\_ when he discussed people who irritated him.

- (1) recalcitrant . . . sarcastic (2) reverential . . . acrimonious  
(3) sensitive . . . remorseful (4) insipid . . . militant

DIRECTIONS for questions 17 to 21: Fill the blanks in the passages below with the most appropriate word from the options given for each gap. The right words are the ones used by the author. Be guided by the author's overall style and meaning when you choose the answers.

Twenty-five years ago, when Mauritius gained independence from Britain, this nation of 1.1 million seemed like anything but paradise. With ----17--- unemployment and one of the fastest growing populations in the world, Mauritius looked as if it were ----18--- heading for disaster. Yet over the past decade, the island has witnessed an extraordinary economic boom. Mauritius today is a success and one of the few ----19--- democracies in Africa.

17. (1) chronic (2) lingering (3) characteristic (4) incessant
18. (1) irrefutably (2) irresistibly (3) irrationally (4) irretrievably
19. (1) malfunctioning (2) performing (3) functioning (4) farfetched

Turning out concise, cliched paragraphs, with little ----20--- but at high speed, is a talent that is greatly prized by international news agencies - along with a stomach for filthy coffee and the ability to work round the clock. Nothing will kill off a natural writing gift quite so well as a ----21--- news-agency training.

20. (1) orthodoxy (2) originality (3) authenticity (4) organization

21. (1) widespread (2) superficial (3) thoughtful (4) thorough

## Answers

1. 32. 43. 14. 45. 26. 47. 28. 39. 210. 211. 4

12. 113. 114. 215. 316. 217. 118. 419. 320. 221. 4

## Logical Reasoning

1. Before going for a party Dr. Dolittle ordered the three musketeers, Tom, Jerry and Donald - to keep watch on the three gluttonous pets - the cat, the dog and the bear. After the party got over, Dr. Dolittle reached back home to find that three items viz, milk, meat and honey were missing from the refrigerator. He then asked the musketeers what happened to the three items. Following were the replies of the three musketeers.

Tom : The cat drank the milk. The dog ate the meat. The bear had the honey.

Jerry : The dog ate the meat. The bear had the honey. The cat did not drink the milk.

Donald : The dog did not have the honey. The bear did not drink the milk.

The cat did not eat the meat.

The statements made by each of the musketeers were alternately true and false but which comes first is uncertain.

1.If each pet ate exactly one of the three items, can you help Dr. Dolittle find who had the honey?

(1) The cat (2) The dog (3) The bear (4) Cannot be determined

2. There are exactly four married couples among four men - Pradeep, Pavan, Kamal and Ranjeet - and four women - Radha, Puja, Leena and Rama. Each couple owns a car of a different colour from among Yellow,

Green, Red and Blue. Pradeep's car is not painted Red or Yellow. Ranjeet is Puja's husband. Leena owns a

Green car. Neither Radha's car nor Rama's car is painted Yellow. Neither Pavan's car nor Rama's car is

painted Blue. Which of the following additional information is required to know the names of the pair of

spouses and colours of the cars owned by them?

(1) Radha's car is painted Blue. (2) Ranjeet's car is painted Yellow.

(3) Leena is Kamal's wife. (4) Pradeep is Radha's husband.

3. Five persons - Krishna, Rahim, John, Joseph and Ram - are standing in a line for a photograph. If Ram is

exactly between Joseph and John, then Krishna is to the immediate right of John. If

John is exactly between Rahim and Joseph, then Ram is to the immediate left of Rahim. If Ram is to the right of John, then John is exactly between Rahim and Joseph. If John is to the right of Krishna, then Ram is to the right of John. Rahim is at one end of the row and Krishna is next to neither Rahim nor Joseph.

Which of the following statements is true?

I. Joseph is between Ram and Rahim.

II. Krishna is at one of the ends.

III. John is to the immediate right of Ram.

(1) Only I and II (2) Only II and III (3) Only I and III (4) I, II and III

4. In the business street of a town, there are five buildings in a row, each of which is occupied by a different company. The total number of floors that five buildings have are 9, 10, 13 and 14 in such a way that all the buildings have different total number of floors, except the two buildings which have 13 floors each.

Names of the companies which have occupied these buildings are Hutch, Airtel, BPL, BSNL and Tatatel. Sum of the number of floors of two adjacent buildings is 23, in two instances. No two adjacent buildings have the same number of floors. Tatatel, which has 14 floors, is at the extreme left end of the street. The office of Airtel

is exactly between the offices of Hutch and BSNL. Neither Hutch nor BSNL is in the building which has 9

floors. What is the number of floors of the building in which Airtel has its office?

(1) 13 (2) 9 (3) 10 (4) Cannot be determined

5. Four persons A, B, C and D participated in two races [Race-I and Race-II]. Neither Race-I nor Race-II had two or more persons finishing the race at the same time. One person finished first in one race, and fourth in the other race. Exactly one person finished in the same position in both the races.

Between B and C, whoever

finishes later in Race-I finishes Race-II in the first position. Between A and D,

whoever finishes later in Race-

II finishes Race-I in the first position. B finished ahead of A in exactly one race. The position of A was not the

same in both the races. Based on the information given above, can you find out the name of the person who

finished first in Race-I?

(1) A (2) B (3) Either A or B (4) Either C or D

6. Each of the five friends - Vijay, Vinay, Vikas, Vilas and Venkat – owns a different car among - Uno, Indica, Matiz, Maruti and Santro. Each car has a different colour among Black, Blue, Green, Yellow and Red. The

colour of Vijay's car is Red. Vikas owns neither Maruti nor Matiz. Vinay owns neither Maruti nor Matiz. The

colour of Vikas's car is Green. Venkat owns an Uno. Indica's colour is Black. Matiz is painted neither Yellow nor

Red.

Which of the following statements must be false?

- (1) Vijay owns a Maruti.
- (2) Vikas owns a Santro.
- (3) Venkat owns the Yellow car.
- (4) Vilas owns the Green car.

7. Every time Grant the Ant hears a whistle from her maternal uncle, she takes a right turn and continues travelling.

After she travels twice as much distance as she just covered in the previous direction, her uncle blows the whistle again. Grant started at a point and proceeded in a northerly direction. She heard the first whistle from her uncle after she covered 1 km. How far is Grant from the starting point immediately after she heard the sixth whistle from her uncle?

- (1) 6 km to the West and 13 km to the North.
- (2) 26 km to the East and 13 km to the North.
- (3) 26 km to the East and 3 km to the North.
- (4) 5 km to the West and 3 km to the North.

8. How am I related to my father's mother's only daughter-in-law's sister's father's only son?

- (1) Nephew (2) Niece (3) Uncle (4) Cannot be determined

9. Given below are three logical statements:

- (A) If all Dogs are Cats, then some Dogs are Rats.
- (B) No Dog is a Cat, unless some Cats are Rats.
- (C) Only if some Cats are Rats, some Dogs are Rats.

If all the above three statements are true, then which of the following need not be true?

- (1) All Cats are Rats (2) No Dog is Rat (3) All Dogs are Rats (4) All Dogs are Cats

10. After their dismal performance in the World Cup, the rejected and the dejected foursome Tendu, Gangu, Dravid and

Viru decide to play a few games among themselves. They play Tippy Tippy Tap, Hide and Seek, Pillar Pillar and

Kabaddi. All four of them play all the four games mentioned above. No two persons are ranked the same in any

single game and no person gets the same rank in any two games. Further, the following information is known;

(A) Tendu is neither the winner nor the 3rd runner-up in Hide and Seek, and Gangu is

neither the 1st runner-up nor the 3rd runner-up in Tippy Tippy Tap.

(B) Dravid is neither the 3rd runner-up nor the winner in Pillar Pillar and Viru is neither

the 3rd runner-up nor the winner in Kabbadi.

(C) Gangu is neither the winner nor the 2nd runner-up in Pillar Pillar and Dravid is neither

the winner nor the 2nd runner-up in Hide and Seek.

(D) Viru is neither the winner nor the 3rd runner-up in Tippy Tippy Tap and Tendu is neither the 3rd runner-up nor the 1st runner up in Kabaddi.

If Dravid's rank is better than Tendu's rank in Kabaddi, then which of the following statements must be false?

- (1) Tendu is the winner in Pillar Pillar.
- (2) Gangu is the 2nd runner-up in Hide and Seek.
- (3) Dravid is ranked higher than Viru in Tippy Tippy Tap.
- (4) None of the above.

DIRECTIONS for questions 11 and 12: Five items – Geyser, Cooking Range, Fridge, Washing Machine and an AC

– are each manufactured by a different company among Godrej, LG, Videocon, Samsung and Hitachi. The following information is also known about them.

- (i) Each of the items has a distinct warranty period ranging from 1 to 5 years.
- (ii) Geyser is not manufactured by LG, does not have the maximum or minimum warranty and it is also not the costliest.
- (iii) AC has the maximum warranty of 5 years, is cheaper than 3 of the items and is manufactured by Hitachi.
- (iv) Cooking Range is not manufactured by Godrej or Videocon, it has a warranty of 2 years and is priced at Rs.6,000.
- (v) Washing Machine is manufactured by Samsung, and it has a warranty of 3 years and is cheaper than the Fridge.
- (vi) Geyser costs Rs.2000 more than the Cooking Range and its cost is the average of all the items put together.
- (vii) The Washing Machine and the AC cost 90% and 70% of the Fridge, respectively, and it is known that the item manufactured by Videocon is the costliest.

11. Which company manufactures the Geyser?

- (1) Godrej (2) Videocon (3) Samsung (4) Cannot be determined

12. What is the cost of the item having the least warranty?

- (1) Rs.10,000 (2) Rs.9,000 (3) Rs.8,000 (4) Cannot be determined

DIRECTIONS for questions 13 to 15: Praful and Karan have a bad habit each. Praful tells lies on Mondays,

Tuesdays and Wednesdays (but speaks the truth on the other days of the week)

whereas Karan tells lies on Thursdays,

Fridays and Saturdays (but speaks the truth on the other days of the week). Umesh

is a common friend of

Praful and Karan.

13. On one day, when Umesh wanted to find out what day of the week was it, he met only Praful who made the following two statements:

I. I lied yesterday. II. I will lie two days after tomorrow.

What day of the week was it on this day?

(1) Monday (2) Tuesday (3) Wednesday (4) Thursday

14. On what day(s) of the week is it possible for Praful to make the following two statements?

I. I lied yesterday . II. I will lie tomorrow.

(1) Monday (2) Wednesday (3) Either (1) or (2) (4) No such day is possible

15. One day Umesh met two cousins of Praful - Archna and Rachna. One of them behaves similar to Praful, who tells lies on Mondays, Tuesdays and Wednesdays (and speaks the truth on the other days of the week) and the other behaves similar to Karan, who tells lies on Thursdays, Fridays and Saturdays (and speaks the truth on the other days of the week). But Umesh does not know who behaves similar to Praful and who behaves similar to Karan. He also does not know what day of the week it is. They introduced themselves to him one by one:

First One : I am Archna Second One : I am Rachna

Which of the following statements is true?

(1) The first one is Archna. (2) The first one is Rachna.

(3) Insufficient data to deduce. (4) Inconsistent data.

DIRECTIONS for questions 16 to 18: In a laboratory, four animals are tested, each with a different medicine out of four kinds of medicinal formulae – P, Q, R and S. The animals available for the test are a rat, a rabbit, a cat and a monkey. S cannot be tested on rats. P cannot be tested on rabbits. R cannot be tested on cats. Q cannot be tested on monkeys.

16. Which of the following additional information will not be sufficient to decide the medicinal formulae to be used on different animals?

(1) P and S cannot be tested on cats and monkeys.

(2) Q and R cannot be tested on rabbits and rats.

(3) P and S cannot be tested on rats and rabbits.

(4) P and S cannot be tested on rabbits and cats.

17. If neither rats can be tested with Q or S nor cats can be tested with Q or S, then which of the following can be used on neither rabbits nor cats?

(1) Only P (2) Only Q (3) P and Q (4) S

18. Either R and Q or P and R are used to test on the cats and the rabbits, then which of the following can be tested on cats?

(1) Only P (2) Only Q (3) Only R (4) Either P or Q

DIRECTIONS for questions 19 to 21: Deeptha comes to college on her scooter or in her father's Ambassador or in her friend's Maruti. She has college from Monday through Saturday and Sunday is a holiday. The modes of conveyance she uses satisfy the following conditions.

- I. She does not use the same mode of conveyance for more than two consecutive working days.
- II. Every Monday, she comes in her friend's Maruti.
- III. On Saturdays, her father's Ambassador is not available.
- IV. If she comes in her friend's Maruti on one day, she has to use her scooter the next day she goes to college.
- V. If Deeptha uses any mode of conveyance on two consecutive working days, the mode of conveyance she uses immediately after these two days cannot be the same as the one she used on the day immediately preceding these two days.

19. If Deeptha used the Ambassador on Thursday and her Scooter on Friday, then which of the following is not true?

- (1) She must have used her scooter on Wednesday.
- (2) She must used her scooter on Saturday.
- (3) She could have used the Ambassador on Wednesday.
- (4) None of the above

20. If Deeptha used her scooter on a particular Friday, then which of the following statements is/are true?

- I. She must have used the Ambassador on Thursday.
  - II. She must have used her scooter on Wednesday.
  - III. She must have used the Ambassador on Wednesday.
- (1) Only I (2) Only I and II (3) Only I and III (4) Only II

21. In how many different ways can Deeptha select her weekly conveyance schedule?

- (1) 7 (2) 8 (3) 9 (4) None of these

### Answers

1. 12. 33. 44. 35. 16. 47. 2  
8. 49. 110. 411. 112. 113. 114. 4  
15. 116. 317. 418. 419. 320. 221. 1

### Mathematics

DIRECTIONS for questions 1 and 2: These questions are based on the following data. Rama went to the market and bought some apples, mangoes and bananas. He bought 42 fruits in all. The number of bananas is less than half the number of apples; the number of mangoes is more than one-third the number of apples and the number of mangoes is less than three-fourths the number of bananas.

1. How many apples did Rama buy?

- (1) 20 (2) 23 (3) 26 (4) 28

2. How many bananas did Rama buy?

- (1) 8 (2) 9 (3) 10 (4) 11

DIRECTIONS for questions 3 to 5: These questions are based on the data given



below.

Everyday, Saddam, the office attender fetches water for the office in container A which has certain rated capacity.

However, because of a dent at the bottom of the container, only 80% of the rated capacity of the container can be used to fill water. This water is transferred periodically into a smaller container B - for people in the office to use this water for drinking. There is an outlet (a faucet) in B from which water is let out. Since the faucet is fixed at a level above the base of B, water upto 10% of the rated capacity of B cannot be let out through the faucet. Everyday in the morning, after Saddam fetches water in container A, he cleans B and fills B to the brim by pouring water from A into B. Whenever the water level falls to the faucet level in B, he again fills B to the brim by pouring water from A into B. The questions in this set are independent of each other.

3. On a particular day, Saddam finds that he filled B five times (including the first time) and at the end of the day, A was empty. The water level in B reached the faucet level. What is the ratio of the rated capacities of A and B?

(1) 4.6 : 1 (2) 5 : 1 (3) 5.75 : 1 (4) 6.25 : 1

4. If Saddam gets the dent in container A removed (so that water can be fetched in this container to its rated capacity) how many times can he fill container B (including the first time in the morning) given that the rated capacities of the two containers are in the ratio 10 : 1?

(1) 9 times (2) 10 times (3) 12 times (4) 11 times

5. Saddam gets the dent in container A removed. He also gets the faucet in container B refixed so that all the water filled into B can be used. He keeps filling B from A everytime B gets emptied. After he pours out water from A into B the last time (i.e., A gets emptied), what percentage of B is empty? The ratio of the rated capacities of A and B is 7.5 : 1?

(1) 0% (2)  $33\frac{1}{3}\%$  (3) 25% (4) 50%

DIRECTIONS for questions 6 and 7: These questions are based on the following data. Amar, Akbar and Anthony sold their three cycles manufactured in different years to Mr.Kishanlal. Mr.Kishanlal gave a total of Rs.1700 to the three and said that Amar should get about one-half of the total amount as his cycle was used less. Akbar's cycle being used more than Amar's, he should get about one-third of the total amount and the last one gets about one-ninth. Each individual gets his amount only in denominations of Rs.100.

6. What is the difference between the amounts received by Amar and Anthony?

(1) Rs.900 (2) Rs.700 (3) Rs.800 (4) Rs.600

7. The amount that Amar has is how much more than what Akbar and Anthony together have?

(1) Rs.200 (2) Rs.300 (3) Rs.100 (4) Rs.400

Directions for questions 8 to 12: Select the correct alternative from the given choices.

8. A, B and C start running simultaneously from the points P, Q and R respectively on a circular track. The distance (when measured along the track) between any two of the three points P, Q and R is L and the ratio of the speeds of A, B and C is 1 : 2 :

3. If A and B run in opposite directions while B and C run in the same direction, what is the distance run by C before A, B and C meet for the first time?

(1)  $10/3L$  (2)  $11/3L$

(3) All three of them will never meet. (4) Cannot be determined

9. A circle of radius 1cm circumscribes a square. A dart is thrown such that it falls within the circle. What is the probability that it falls outside the square?

(1)  $1/2\pi$  (2)  $(2\pi - 1)/2\pi$  (3)  $(\pi - 1)/\pi$  (4)  $(\pi - 2)/\pi$

10. Fifteen boys went to collect berries and returned with a total of 80 berries among themselves. What is the minimum number of pairs of boys that must have collected the same number of berries?

(1) 0 (2) 1 (3) 2 (4) 3

11. A cube of edge 12 ft is placed on the floor with one of its faces touching a wall. A ladder of length 35 ft is resting against that wall and is touching an edge of the cube. Find the height at which the top end of the ladder touches the wall, given that it is more than the distance of the foot of the ladder from the wall?

(1) 11 ft (2) 23 ft (3) 21 ft (4) 28 ft

12. Two circles touch each other externally. One of the circles is 300% more in area than the other. If A is the centre of the larger circle and BC is the diameter of the smaller circle and either AB or AC is a tangent to the smaller circle, then find the ratio of the area of the triangle ABC to that of the smaller circle?

$2\sqrt{2} : \pi$  (4)  $\pi : 4\sqrt{2}$  (1)  $2 : \pi$  (2)  $3 : \pi$  (3) 2

DIRECTIONS for questions 13 and 14: Select the correct alternative from the given choices.

13.  $a_1, a_2, a_3, a_4$  and  $a_5$  are five natural numbers. Find the number of ordered sets  $(a_1, a_2, a_3, a_4, a_5)$  possible such that  $a_1 + a_2 + a_3 + a_4 + a_5 = 64$ .

(1)  $64C5$  (2)  $63C4$  (3)  $65C4$  (4) None of these

14. In the above question if  $a_1, a_2, a_3, a_4$  and  $a_5$  are non-negative integers then find the number of ordered sets  $(a_1, a_2, a_3, a_4$  and  $a_5)$  that are possible.

(1)  $64C5$  (2)  $63C4$  (3)  $68C4$  (4) None of these

DIRECTIONS for questions 15 to 17: Each question gives certain information followed by two quantities A and B.

Compare A and B, and then

Mark 1 if  $A > B$

Mark 2 if  $B > A$

Mark 3 if  $A = B$

Mark 4 if the relationship cannot be determined from the given data.

15. A baker had a certain number of boxes and a certain number of cakes with him. Initially he distributed all the cakes equally among all the boxes and found that there was no cake left without a box. He later found that he had one more box with him and so he redistributed all the cakes equally among all the boxes and found that there was one cake less per box than initially and one cake was left without a box with the baker.

A. The number of cakes per box in the first case.

B. The total number of boxes with the baker.

16. A trader gives a discount of  $r\%$  and still makes a profit of  $r\%$ . A second trader marks up his goods by  $r\%$  and gives a discount of  $r\%$ .

- A. The cost price of the first trader.
- B. The cost price of the second trader.

17. A piece of work is carried out by a group of men, all of equal capacity, in such a way that on the first day one man works and on every subsequent day one additional man joins the work. A group of women, all of equal capacity is engaged to carry out a second piece of work with ten women starting the work on the first day and one woman leaving the work at the end of everyday. The second piece of work is thrice as time consuming as the first piece of work while each man is thrice as efficient as each woman. It is known that one man working alone can complete the first piece of work in 6 days.

- A. Number of days in which the first piece of work is completed.
- B. Number of days in which the second piece of work is completed.

DIRECTIONS for questions 18 and 19: Select the correct alternative from the given choices.

18. A number when divided by a certain divisor, left a remainder of 8. When the same number was multiplied by 12 and then divided by the same divisor, the remainder is 12. How many such divisors are possible?

- (1) 1 (2) 2 (3) 4 (4) 5

19. Consider the equation  $x^2 + y^2 + z^2 = 1$ . Let  $(x_1, y_1, z_1)$  and  $(x_2, y_2, z_2)$  be two sets of values of  $(x, y, z)$  satisfying the given equation and let  $A = (x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2$ . What is the maximum possible value that A can assume?(assume that all the quantities involved are real numbers)

- (1) 1 (2) 2 (3) 4 (4) 6

### Answers

1. 22. 43. 34. 45. 46. 27. 38. 39. 410. 3

11. 412. 313. 214. 315. 216. 417. 218. 319. 3