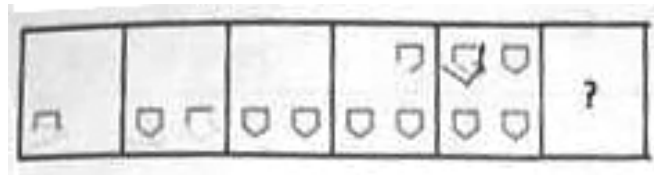


ODISHA NTSE STAGE 1 – 2020-21

MAT (Set – C)

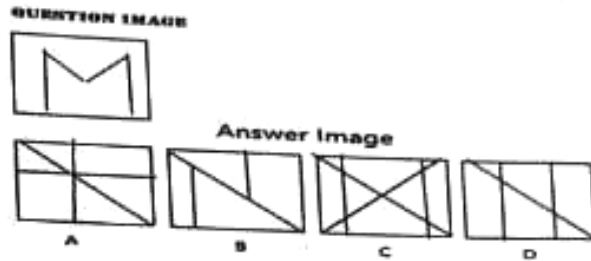
1. Which of the following figures will complete the figure series given below?



- A
- B
- C
- D

2. Some words are given in the options. In which case, the word formed has no pair of consecutive alphabets?
- (A) COUNT (B) CRUST (C) PAINS (D) LIGHT
3. An analogue wrist watch is displaying the time as 3:00. If the hour hand points towards north-east direction, then in which direction is the minute hand pointing?
- (A) South-west (B) North-West (C) South-east (D) North-east
4. Select one of the following four options that will make the second pair analogous to the first pair given as:
- Bu : Cow :: Stallion : ?
- (A) Zebra (B) Mare (C) Pony (D) Stag
5. In three of the options the 2nd number is related to the 1st number in a similar logical way. Which is the odd one out?
- (A) 263 : 11 (B) 331 : 7 (C) 383 : 13 (D) 551 : 11

11. Which of the answer images has the question image embedded and hidden inside?



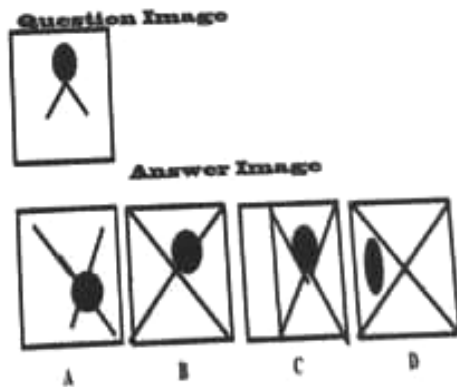
- (A) A (B) B (C) C (D) D

12. Which number replaces the questions mark in the given series?

1, 2/5, 4/25, 8/125, ?

- (A) 606/5 (B) 10058/3 (C) 3/5 (D) 16/625

13. Which of the answer images has the question image embedded and hidden inside?



- (A) A (B) B (C) C (D) D

14. What is the missing number in the given series?

2, 4, 7, 12, 19, ?, 43

- (A) 28 (B) 30 (C) 32 (D) 29

15. If in a certain code language if Tour is coded as 1357, CLEAR is coded 5678 and SPARE as 90847, then how will the word SCULPTURE be coded?

- (A) 953601347 (B) 567903417 (C) 953016347 (D) 953603741

16. Using the letters in the words VAIN, CAR and POROUS, a word can be formed that mean the group of animals that eat other animals. What it would be?

- (A) HERBIVOROUS
 (B) OMNIVOROUS
 (C) CARNIVOURS
 (D) AUTOTROPHS

17. Select one of the following four options that will make the second pair analogous to the first pair given as:

DFH : 163664 :: BDF : ?

- (A) 15166 (B) 41636 (C) 81838 (D) 182190

18. In the following series, how many pairs of successive numbers have a difference of 2 each?

6 4 1 2 2 8 7 4 2 1 5 3 8 6 2 1 7 1 4 1 3 2 8 6

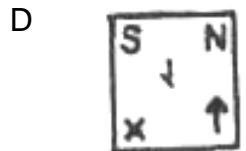
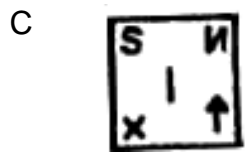
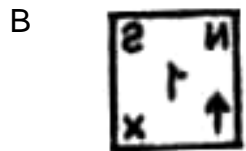
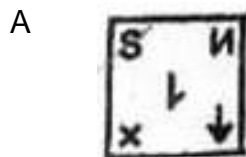
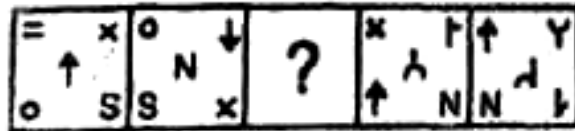
- (A) 4 (B) 5 (C) 6 (D) 7

19. How many numbers in the following series are perfect cubes?

1, 2, 3, 4, 5, 6, 7, 8, 7, 6, 5, 4, 3, 2, 1, 2, 3, 4, 5, 6, 7, 8

- (A) 1 (B) 2 (C) 3 (D) 4

20. Which of the following figures will complete the figural series given below?

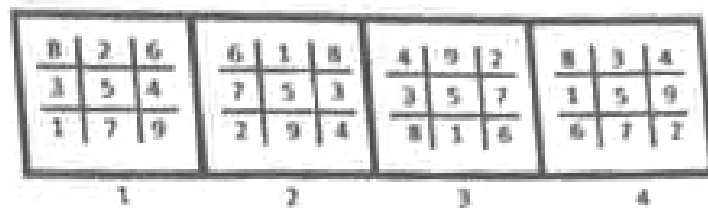


21. In the following sequence of numbers, how many consecutive even numbers have a difference of 2?

444864486422144228281

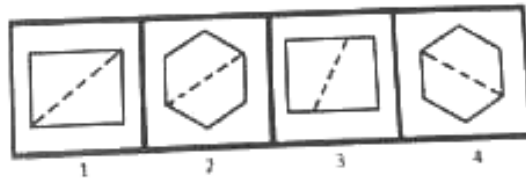
- (A) 9 (B) 8 (C) 7 (D) 6

22. Select one of the following four options that will make the second pair analogous to the first pair given as:
 CACTUS: AU:: LOTUS:
- (A) EO (B) AE (C) OU (D) IU
23. A man walked 8km to the south, then he turns to his right and walks 13 km, next he moves 11 km to his right. Finally he turns to the right and moves 23 km. Which direction is he now from his initial point.
- (A) East (B) North (C) South West (D) North East
24. In 3 of the options, the second word is related to the first word in the same logical way, Which is the odd one out?
- (A) CREATE : ETAERC
 (B) CATALYST : TSYLATAAC
 (C) GREAT : EATRG
 (D) SNAKE : EKANS
25. Among the give group of 4 images, which set of images can be classified as a group?



- (A) (1, 2, 3) (B) (1, 2, 4) (C) (1, 3, 4) (D) (2, 3, 4)
26. In a certain code three statements are written in the following way
- (A) “you are good” is coded as “pit darn a”
 (B) “good and bad” is coded as “dar tok pa”³
 (C) “they are bad” is coded as “tim na tok”
- To find the particular code of the word ‘they’, which of the following statements can be dispensed with?
- (A) Only a
 (B) b and c
 (C) a and b and c
 (D) None of the statements

27. Among the given group of 4 images, which set of images can be classified as a group?



- (A) (1, 2, 3)
- (B) (1, 2, 4)
- (C) (1, 3, 4)
- (D) (2, 3, 4)

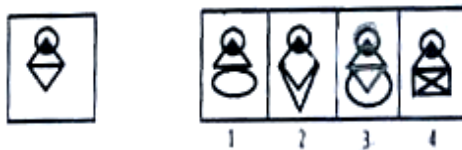
28. 3 numbers of the following 4 numbers are composite numbers and so form a group. Which is the one that does not belong to the group?

- (A) 29
- (B) 85
- (C) 147
- (D) 125

29. Select one of the following four options that will make the second pair analogous to the first pair given as : Cricle : Circumference :: Polygon: ?

- (A) Perimeter
- (B) Volume
- (C) Area
- (D) Diagonal

30. In which of the four images on the right can the pattern given on the left be seen as a part of the image?

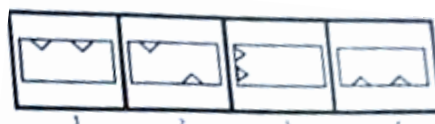


- (A) 1
- (B) 2
- (C) 3
- (D) 4

31. Select one of the following four options that will make the second pair analogous to the pair given as : Rectangle : 2 :: Pentagon :

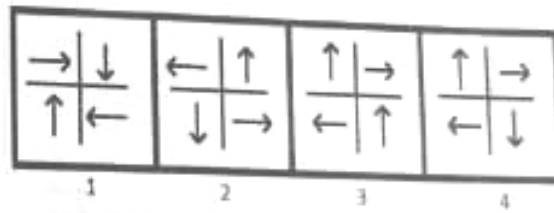
- (A) 4
- (B) 5
- (C) 7
- (D) 10

32. Among the given group of 4 images, which set of images can be classified as a group?



- (A) (1, 2, 3)
- (B) (1, 2, 4)
- (C) (1, 3, 4)
- (D) (2, 3, 4)

33. Among the given group of 4 images, which set of images can be classified as a group?



- (A) (1, 2, 3) (B) (1, 2, 4) (C) (1, 3, 4) (D) (2, 3, 4)

34. What is the missing term in the series given below?

2, 5, 10, ?, 36

- (A) 17 (B) 19 (C) 25 (D) 28

35. In a certain code language “ACTIVATE” is coded as “BCUIWAUE”. How is “CATALYST” coded in that language?

- (A) ADYMYUAT (B) ADMYUATT
(C) DAUAMYTT (D) DUAAMYTT

36. Choose the odd one out based on the position of alphabets.

ABYZ, DFUW, FIRV, MEVN

- (A) ABYZ (B) DFUW (C) FIRV (D) MEVN

37. Some words are given in the options, In which case, the word formed has at least a pair of consecutive alphabets?

- (A) NIGHT
(B) PAINS
(C) CLEAR
(D) SWING

38. In certain code language, the word POPULAR is coded as OMMQGUK. IN the same way, the word NEOMAN should be coded as

- (A) HVWLMC
(B) ODNLZM
(C) MCLIVH
(D) MDMLUM

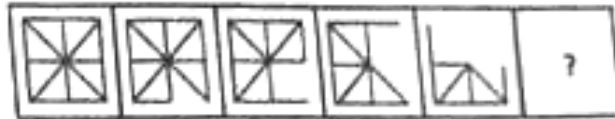
39. Select one of the following four options that will make the second pair analogous to the first pair given as:

BIOLOGY : ZHPMPJC :: CHEMISTRY:

- (A) ZSUJTFNID

- (B) ZUSJTNDIF
- (C) ZSUTJNFID
- (D) ZUSTNFJID

40. Which of the following figures will complete the figural series given below?

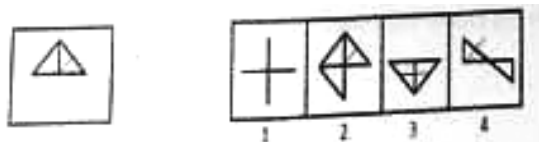


- A
- B
- C
- D

41. If in a particular coding pattern the word MOBILITY is written as 46293927, then the word EXAMINATION can be written as

- (A) 67250623076
- (B) 56149512965
- (C) 45038401854
- (D) 57159413955

42. In which of the four images on the right can the pattern given on the left be seen as a part of the image?



- (A) 1
- (B) 2
- (c) 3
- (D) 4

43. If in a certain code language 1 3 4 means GOOD AND TASTY 4 7 8 means SEE GOOD PICTURES 7 2 9 means PICTURES ARE FAINT, then which of the following means "SEE"?

- (A) 8
- (B) 2
- (c) 9
- (D) 1

44. Pari Kumari rode her horse northward, then she turned left and rode 1 km and again turned left and rode 2 km. She found herself 1 km west of her beginning point. How far did she ride northward initially?

- (A) 1 km (B) 2 km (c) 3 km (D) 5 km

45. How many 6s in 888862686622888866888 are immediately preceded by 2 but NOT immediately followed by 8?

- (A) 3 (B) 0 (c) 4 (D) 2

46. Suman runs a distance of 12 km from point A to point B. She then turns right and runs 8 km to reach point C. From point C, she again turns right and runs 6 km to reach point D. How far is she away from the starting point?

- (A) 10 km (B) 12 km (c) 13 km (D) 14 km

47. In the following series of numbers, how many times 1, 3 and 7 have appeared together, 7 being between 1 and 3.

297317377331738571377173906

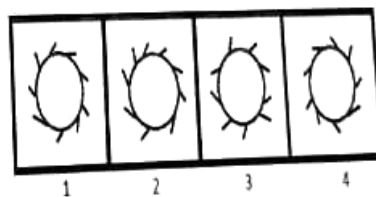
- (A) 3
 (B) 4
 (C) 5
 (D) More than 5

48. Select one of the following four options that will make the second pair analogous to the first pair given as:

CACTUS : CACSUT :: BUZZER:?

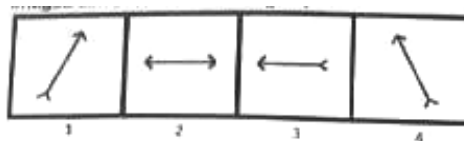
- (A) REZZUB (B) UZZBER (C) ZUBREZ (D) UZEZBR

49. Among the given group of 4 images, which set of images can be classified as a group?



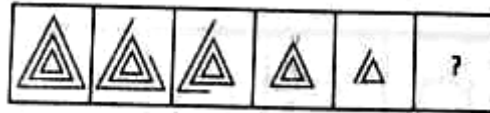
- (A) (1, 2, 3) (B) (1, 2, 4) (C) (1, 3, 4) (D) (2, 3, 4)





50. Among the given group of 4 images, which set of images can be classified as a group?



- (A) (1, 2, 3) (B) (1, 2, 4) (C) (1, 3, 4) (D) (2, 3, 4)

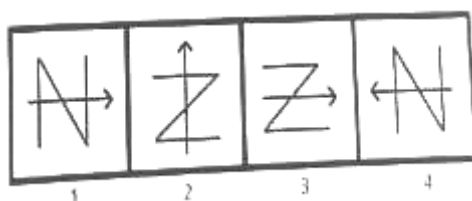
51. I was facing west. I turned 45° in the anti-clockwise direction, then 180° in the clockwise direction. Finally I turned 90° in the anti-clockwise direction. Which direction am I facing now?
- (A) South West
 (B) South
 (C) North
 (D) North West
52. Which of the following figures will complete the figure series given below?



- A 
- B 
- C 
- D 

53. In a certain code language “AT A FROG’S LEAP” is coded as “JA KI MO PE”, “TAKE A LEAP AHEAD” is coded as “MO LA KI SO” and “INSECTS ARE FROG’S DIET” is coded as “RE BO JA NA”. What is the code for “AT’ in that language?
- (A) A
 RE (B) PE (C) BO (D)
54. Mohan walked 84 m to the north, then he turns to his right and walks 9 m, again he moves 44 m to his right. How far is he from the starting point?
- (A) 41 m (B) 45 m (C) 50 m (D) 59 m
55. A girl moves a distance of 189 m towards west. Then she turned to the right and walks for about 91 m. She turned left and moves 123 m. Finally she turned to the left at an angle of 45° and started moving. In which direction was she moving finally?
- (A) North (B) North East (C) East (D) South West

56. Select one of the following four options that will make the second pair analogous to the first pair given as : 258 : 6 :: 155:?
- (A) 5 (B) 7 (C) 9 (D) 11
57. A boy walks 5 km forward south, then turns right and walks 3 km. Then turns left and walks 5 km. In which direction is the from the starting point?
- (A) West (B) South (C) North-East (D) South-West
58. What will be the next term of the series
10, 34, 78, 148, _____?
- (A) 238 (B) 240 (C) 242 (D) 250
59. John walked 11 m to the north, then he turns North East and walks $2\sqrt{2}$ m, next he moves 135° clockwise and moves 27m. Finally he turns right and moves 16 m. How far is he from his starting point?
- (A) $5\sqrt{2}m$ (B) $6\sqrt{2}m$ (C) $7\sqrt{2}m$ (D) $8\sqrt{2}m$
60. What is the missing term in the sequence given below?
- (A) 13824 (B) 15625 (C) 17576 (D) 17926
61. In the following sequence of numbers, how many consecutive even numbers have a difference of 2?
488421614446684628461
- (A) 8 (B) 7 (C) 6 (D) 5
62. If the word DIAMOND is coded as VQYMKLV, then the word FEMALE can be coded as
- (A) TUMYNU
(B) UVNZOV
(C) TUMZOU
(D) TVNYNV
63. A boy walked 931 m to the north, then turns to his left and walks 31 m. After that, he moves 931 m to his left and family he turns to the right and moves 23 m. How far is he from the starting point?
- (A) 31 m (B) 54 m (C) 93 m (D) 99 m
64. Among the given group of 4 images, which set of images can be classified as a group?



- (A) (1, 2,3) (B) (1, 2, 4) (C) (1, 3, 4) (D) (2, 3, 4)

65. A list of meaningful words are given in the options. In which case, word formed has at least a pair of consecutive alphabets?

- (A) STARE (B) SWING (C) PRANK (D) PLAYS

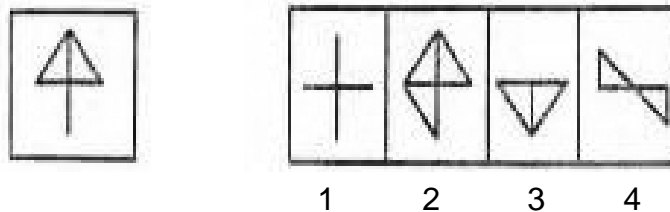
66. In a certain code language “STUDENT ATTENDS CLASS” is coded as “CHIP DIN CHUNK”, “ARJUN is STUDENT” is coded as “DIN SHUNK DINK”, “SCHOOLS ARE GOOD” is coded as “JUMP MINK SINK”, TEACHER IS TEACHING” is coded as “DINK MUP CHIMP”. What is the code for the word “ARJUN”?

- (A) CHUNK (B) DIN (C) DINK (D) SHUNK

67. A list of meaning words are given in the options. In which case, the word formed has at least a pair of consecutive alphabets?

- (A) CLEAR (B) FORCE (C) CRANE (D) BLUSH

68. Given below is a figure on the left with a pattern. In which of the images on the right can this pattern be found as a part of that image?



- (A) 1 (B) 2 (C) 3 (D) 4

69. There is a relation between the first number and the symbol written adjacent to it. The corresponding symbol for the number 7 is

3#, 6*, 2Q, 7__

- (A) & (B) * (C) \$ (D) (

70. In which of the four images on the right can the pattern given on the left be seen as a part of the image?



- (A) 1 (B) 2 (C) 3 (D) 4

71. Given options shows four time instance in which of these cases, the hour hand and minute hand will be closest to each other when this time is seen on a clock?

- (A) 7:00 (B) 2:30 (C) 9:30 (D) Both 2:30 and 9:30

72. In which of the four images on the right can the pattern given on then left be seen as a part of the image?



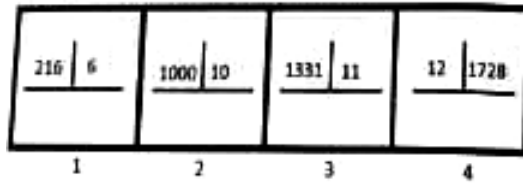
- (A) 1 (B) 2 (C) 3 (D) 4

73. How many 4s in the following series are immediately preceded by 4 immediately followed by 57.

5444554445454445445

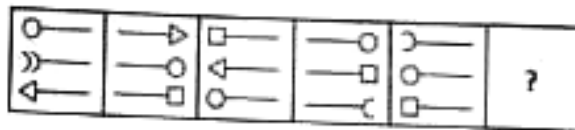
- (A) 5 (B) 3 (C) 7 (D) 4

74. Among the given group of 4 images, which set of images can be classified as a group?



- (A) (1, 2, 3,) (B) (1, 2, 4) (C) (1, 3, 4) (D) (2, 3, 4)

75. Which of the following figures will complete the figural series given below?



- A
- B
- C
- D

76. The given options show four time instances. In which of these cases, the hour hand and minute hand will be farthest from each other when this time is seen on a clock?

- (A) 6: 00 (B) 2:30 (C) 4:30 (D) 7:30

77. Which of the following geometric figure CANNOT be found in given image?



(A) Parallelogram

(B) Rectangle

(C) Circle

(D) Triangle

78. In three of the options, the 2nd number is related to the 1st number in a similar logical way. Which is the odd one out?

(A) 72-14

(B) 1480-32

(C) 288-128

(D) 8640-0

79. Select one of the following four options that will make the second pair analogous to the first pair given as: 6 : 345 :: 8 : ?

(A) 346

(B) 458

(C) 640

(D) 731

80. Find the option that is not similar to the elements in the given set: (Angle between diagonals of a square)

(A) Angle in a semicircle

(B) Half of sum of opposite angles of a cyclic quadrilateral

(C) Each angle of an equilateral triangle

(D) Angle opposite to hypotenuse in a right angled triangle

81. What will be the next term of the series

8, 12, 24, 60, _____?

(A) 90

(B) 120

(C) 160

(D) 180

82. Select one of the following four options that will make the second pair analogous to the first pair given as:

JLHNF : PRNTL :: XZVBT : ?

(A) RJXDF

(B) DFBHZ

(C) DFJPX

(D) RTVXZ

83. What is the next term in the sequence given below?

32, 39, 46, 117, 202, 365, 684, ?

(A) 1206

(B) 1251

(C) 1368

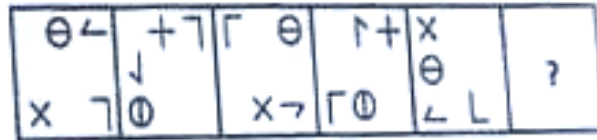
(D) 1391

84. What is the next number of the series given below?

2, 6, 24, 120, 720, ?

- (A) 4420 (B) 4680 (C) 5040 (D) 5640

85. Which of the following figures will complete the figural series given below?



- A
- B
- C
- D

86. In a certain code language "BOY IS GOOD" is coded as "QUO CUI HEER", "SITA IS FAIR" is coded as "LAI QUO MEA", "DOG WAS GOOD" is coded as "SI HAI CUI". What is the code for the word "BOY"?

- (A) QUO (B) LAI (C) CUI (D) HEER

87. Three out of the four are perfect squares. Which is the odd one out?

6241, 7569, 4993, 8649.

- (A) 6241 (B) 7569 (C) 4993 (D) 8649

88. Which is the third number to the left of the middle number in the sequence?

12345678908287376325669345186

- (A) 3 (B) 2 (C) 4 (D) 5

89. In three of the options the 2nd number is related to the 1st number in a similar logical way. Which is the odd one out?

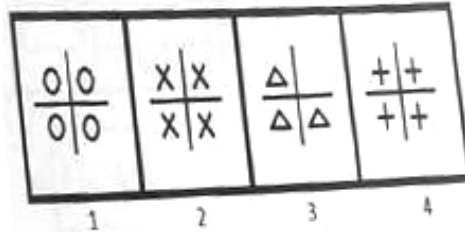
- (A) 99-9801 (B) 91-8281 (C) 81-6561 (D) 69-4231

90. Choose the odd one out based on the position of alphabets.

BDGWY, ACFXZ, FHJSU, GILRT

- (A) BDGWY (B) ACFXZ (C) FHJSU (D) GILRT

91. Among the given group of 4 images, which set of images can be classified as a group?



- (A) (1, 2, 3,) (B) (1, 2, 4) (C) (1, 3, 4) (D) (2, 3, 4)

92. What is the next term in the sequence given below?

3, 19, 163, 1459, ?

- (A) 13231 (B) 13213 (C) 13321 (D) 13123

93. What is the word hidden in the figure?



- (A) QWERTY (B) ANTELOPE (C) ANTEATER (D) AUNTIE

94. How many numbers are there between 1 to 100, which are not only divisible by 4, but also have 4 as a unit digit?

- (A) 5 (B) 10 (C) 20 (D) 21

95. Three of the given four numbers are squares of prime numbers. Choose the odd one out among the following.

529, 121, 169, 441.

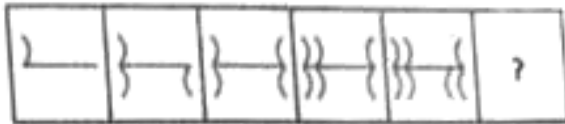
- (A) 529 (B) 212 (C) 160 (D) 441

96. How many even number(s) in the following sequence of numbers are immediately followed by an off number and immediately preceded by an even number?

86768932753422355228119

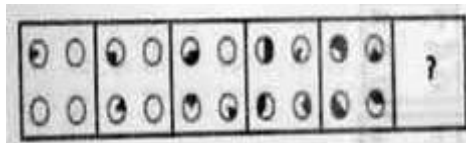
- (A) 1 (B) 3 (C) 5 (D) 4

97. Which of the following figures will complete the figural series given below?



- A
- B
- C
- D

98. Which of the following figures will complete the figural series given below?



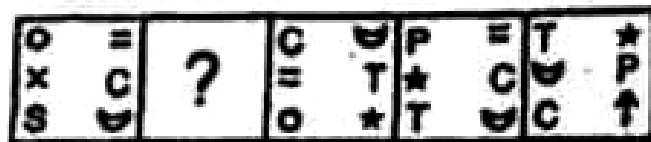
- A
- B
- C
- D

99. Choose the odd one out based on the position of alphabets.

GILP, ACFJ, LNQU, PRUZ

- (A) GILP
- (B) ACFJ
- (C) LNQU
- (D) PRUZ

100. Which of the following figures will complete the figural series given below?



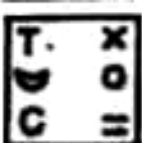
A



B



C



D

