NATIONAL TALENT SEARCH EXAMINATION (NTSE-2019-2020) STAGE -1

STATE : MADHYA PRADESH PAPER : MAT

Code : N-2

Date: 03/11/2019

Max. Marks: 100 **SOLUTIONS** **Time allowed : 2 hr**

Read the following instructions carefully before you answer the questions. Answers are to be SHADED on a SEPARATE OMR Answer sheet given, with a HB pencil. Read the Instructions printed on the OMR sheet carefully before answering the questions.

Please write you Centre Code No. and Roll no. very clearly (only one digit in one block) on the

Direction : In question No. 1 to 10 , there is a missing number in series shown by question mark(?). Choose the correct number out of the four alternatives given.

1. 10, 100, 200, 310, ?

(A) 400 (B) 410 (C) 420 (D) 430

Ans. **(D)**

Sol. 10 (+90) 100 (+100) 200 (+110) 310 (+120) 430

2. 6, 12, 21, ? , 48

(A) 33 (B) 38 (C) 40 (D) 45

Ans. **(A)**

Sol. 6 (+6) 12 (+9) 21 (+12) 33 (+15) 48

3. 3, 7, 15, ?, 63, 127

(A) 35 (B) 31 (C) 30 (D) 33

Ans. **(B)**

Sol. 3 (×2+1) 7 (×2+1) 15 (×2+1) 31 (×2+1) 63 (×2+1) 127

4. 196, 169, 144, 121 , ?

(A) 100 (B) 110 (C) 64 (D) 81

Ans. **(A)**

Sol. $14^2, 13^2, 12^2, 11^2, \mathbf{10^2}$

5. 25, 49, 81, ? , 169, 225

(A) 100 (B) 121 (C) 144 (D) 125

Ans. **(B)**

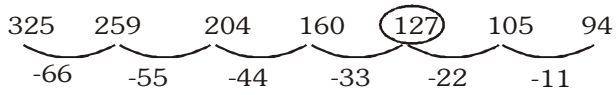
Sol. $5^2, 7^2, 9^2, \mathbf{11^2}, 13^2, 15^2$

6. 325, 259, 204, 160, ?, 105, 94

(A) 120 (B) 125 (C) 127 (D) 130

Ans. (C)

Sol.

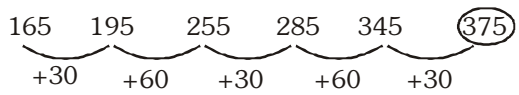


7. 165 ,195, 255, 285, 345, ?

(A) 375 (B) 390 (C) 420 (D) 435

Ans. (A)

Sol.



8. 1, 3, 4, 8, 15, 27, ?

(A) 37 (B) 44 (C) 50 (D) 55

Ans. (C)

Sol. $1 + 3 = 4$

$1 + 3 + 4 = 8$

$3 + 4 + 8 = 15$

$4 + 8 + 15 = 27$

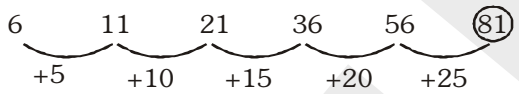
$\mathbf{8 + 15 + 27 = 50}$

9. 6, 11, 21, 36, 56, ?

(A) 42 (B) 51 (C) 81 (D) 91

Ans. (C)

Sol.



10. 3, 15, ?, 63, 99, 143,

(A) 27 (B) 35 (C) 45 (D) 56

Ans. (B)

Sol. $2^2 - 1, 4^2 - 1, \mathbf{6^2 - 1}, 8^2 - 1, 10^2 - 1, 12^2 - 1$

11. If 'ROHIT' is coded as 'SPIJU', how will 'MOHIT' be coded?

(A) NPIJU (B) LNGHS (C) ZATIU (D) None of the above

Ans. (A)

Sol.

R	O	H	I	T
↓ +1	↓ +1	↓ +1	↓ +1	↓ +1
S	P	I	J	U

M O H I T
↓ ↓ ↓ ↓ ↓ +1
N P I J U

12. If 'MEAT' is coded as '135120', how will 'TIME' be coded?

(A) 209135 (B) 211395 (C) 26245 (D) None of the above

Ans. (A)

Sol.
M E A T
↓ ↓ ↓ ↓
13 5 1 20

T I M E
↓ ↓ ↓ ↓
20 9 13 5

13. In a certain code, 'ROAD' is written as 'URDG' How is 'SWAN' written in the code?

(A) VXDQ (B) VZDQ (C) VZCP (D) UXDQ

Ans. (B)

Sol.
R O A D
↓+3 ↓+3 ↓+3 ↓+3
U R D G

S W A N
↓+3 ↓+3 ↓+3 ↓+3
V Z D Q

14. If each letter in the English alphabet is assigned odd Numerical value begining A = 1, B = 3, C = 5 and so on. What will be the value of the letters of word INDIAN?

(A) 86 (B) 88
(C) 89 (D) 96

Ans. (D)

Sol. I + N + D + I + A + N (Here I = 17, N = 27, D = 7, A = 1)
= 17 + 27 + 7+ 17+ 1+ 27
= 96

15. In a certain language 'LUTE' is written as 'MUTE' & 'FATE' is written as 'GATE', then how will 'BLUE' be written ?

(A) CLUE (B) GLUE (C) FLUE (D) SLUE

Ans. (A)

Sol.
L U T E ↓+1 M U T E and F A T E ↓+1 G A T E then B L U E ↓+1 C L U E

Direction : In question No. 16 to 20, of the four given alternatives, find the odd one out.

16. (A) Fast - Slow (B) Bright - Dark
(C) Day - Night (D) Valley - Depth

Ans. **(D)**

Sol. Except (D), rest are opposite to each other.

17. (A) Zebra (B) Lion
(C) Tiger (D) Horse

Ans. **(D)**

Sol. Except (D), rest are wild animals, while HORSE is the domestic animal.

18. (A) January (B) May
(C) November (D) July

Ans. **(C)**

Sol. Except 'November' all given months have 31 days.

19. (A) Radish (B) Carrot
(C) Spinach (D) Potatoes

Ans. **(C)**

Sol. Except spinach, all grow underground.

20. (A) 333 (B) 153 (C) 783 (D) 213

Ans. **(D)**

Sol. Except (D),
rest of the numbers like 333, 153, 783 having digital sum is 9.

21. If 'cook' is called 'butler' is 'manager' 'manager' is 'teacher', 'teacher' is 'clerk' & 'clerk' is 'principal', who will teach in a class ?
(A) Clerk (B) Cook (C) Butler (D) Manager

Ans. **(A)**

Sol. Teacher is clerk.

22. If 'Black' means 'Pink', 'Pink' means 'Blue' 'Blue' means 'White', 'White' means 'Yellow', then what is the colour of clear sky ?
(A) Brown (B) Pink (C) Red (D) Blue

Ans. **(B)**

Sol. Pink means blue

Direction : In question No. 23 to 35, one of the four alternatives given under the each question satisfies the same relation as is found between two patterns to the left of the sign : : given in the question. Find the correct alternative.

23. Virat Kohli : Cricket :: Marykom : ?
(A) Boxing (B) Badminton (C) Cricket (D) Tennis

Ans. **(A)**

Sol. As virat kohli is related to cricket in the same way marykom is related to boxing.

24. 81 : 3 :: 16 : ?

(A) 2 (B) 4 (C) 9 (D) 12

Ans. (A)

Sol. $81 = 3^4$

$\therefore\ 16 = 2^4$

25. Aeroplane : Hanger :: Car : ?

(A) Port (B) Garage (C) Depot (D) Harbour

Ans. (B)

Sol. Keeping place of aeroplane is hanger in the same way keeping place of car is garage.

26. Bees : Swarm :: Cattle : ?

(A) Mob (B) Flock (C) Herd (D) Shoal

Ans. (C)

Sol. Group of bees is swarm in the same way group of cattle is called herd.

27. Rupee : India :: Yen : ?

(A) Turkey (B) Bangladesh (C) Japan (D) Pakistan

Ans. (C)

Sol. Rupee is the currency of India in the same way as Yen is the currency of Japan.

28. Air : Atmosphere :: Water : ?

(A) Hydrosphere (B) Ecosphere (C) Biosphere (D) Stratosphere

Ans. (A)

Sol. First constitutes the second.

29. Mumbai : Maharashtra :: Raipur : ?

(A) Gujarat (B) Kerala (C) Chhatisgarh (D) Jharkhand

Ans. (C)

Sol. Mumbai is the capital of Maharashtra in the same way Raipur is the capital of Chhattisgarh.

30. Ship : Sea :: Camel : ?

(A) Forest (B) Mountain (C) Land (D) Desert

Ans. (D)

Sol. Ship is the means of transport in sea. Similarly, Camel is the means of transport in desert.

31. Thermometer : Temperature : : Barometer : ?

(A) Pressure (B) Humidity

(C) Electric current (D) Earthquake Intensity

Ans. (A)

Sol. Thermometer is used to measure temperature in the same way Barometer is used to measure pressure.

32. Dog : Rabbies :: Mosquito : ?

(A) Sting (B) Malaria (C) Death (D) Plague

Ans. (B)

Sol. The bite of the first causes the second.

33. Tuberculosis : Lungs : : Cataract : ?

(A) Ear (B) Throat (C) Eyes (D) Skin

Ans. (C)

Sol. Tuberculosis is a disease of lungs similarly, cataract is a disease of eyes.

34. AB : ZY :: CD : ?

(A) XW (B) WV (C) XY (D) WX

Ans. (A)

Sol. AB : ZY : CD : $\boxed{XW}$

Position of given letters are same from the beginning and from the end in the English alphabet.

35. Cruel : Kind : : Lazy : ?

(A) Alert (B) Sharp (C) Interest (D) Shrewd

Ans. (A)

Sol. Curel is Antonym of kind

Similarly, Lazy is antonym of Alert.

Direction : Four types of figures (a), (b), (c) & (d) are given for question No. 36 to 39. One of the figure type represents the relation of 3 types of things. Select the right answer.

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

36. Bus ; Car ; Vehicle

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

Ans. (B)

Sol. Bus and Car both are type of vehicle.

37. Week, Day, Year

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

Ans. (A)

Sol. Day is part of week, week is part of year.

38. Thief, Criminal, Judge

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

Ans. (C)

Sol. All thiefs are criminals and Judge is different.

39. Professor, Researcher, Scientist

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

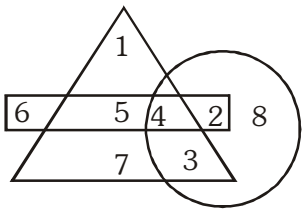
Ans. **(D)**

Sol. Professors can be Researcher

Researcher can be Scientist

& Scientist can be Professors.

40. Which number is in all Geometrical figures ?



(A) 3 (B) 4 (C) 5 (D) 8

Ans. **(B)**

Sol. 4 Lies in all the figures.

41. Rohit travels 7 km to the North. He then turns right and walks 4 km. He again turns right & moves 4 km forward. How many km is he from the starting point

(A) 6 km (B) 5 km (C) 9 km (D) 15 km

Ans. **(B)**

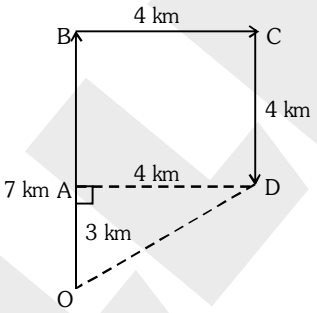
Sol. AD = 4 km

AO = 3 km

$OD = \sqrt{4^2 + 3^2}$

$OD = \sqrt{16 + 9}$

$OD = \sqrt{25} = 5km$

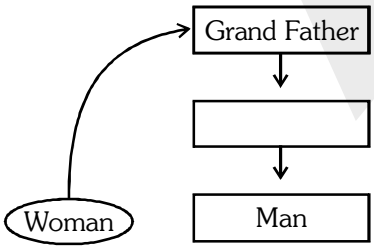


42. Pointing to a man, a woman said, "He is the son of only son of my grandfather". How is that man related to woman ?

(A) Uncle (B) Brother (C) Cousin (D) None of these

Ans. **(B)**

Sol.



∴ Man is the brother of woman

43. What is the product of all the Numbers in the Dial of a Telephone ?

(A) 158480 (B) 0 (C) 159450 (D) 159480

Ans. (B)

Sol. When all the numbers are multiplied will give O.

$\therefore\ 0 \times 1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 7 \times 8 \times 9 = 0$

44. If '÷' means '×', '×' means '+', '+' means '-' and '-' means '÷' find the value of $16 \times 3 + 5 - 2 \div 4$.

(A) 9 (B) 10 (C) 19 (D) None of these

Ans. (A)

Sol. $16 \times 3 + 5 - 2 \div 4$

$16 + 3 - 5 \div 2 \times 4$

$16 + 3 - \frac{5}{2} \times 4$

$16 + 3 - 5 \times 2$

$16 + 3 - 10$

$19 - 10$

$= 9$

45. If '<' means '-', '>' means '+' and '$' means '÷', then what would be the value of $27 > 81\$ 9 < 6$?

(A) 6 (B) 33 (C) 36 (D) 30

Ans. (D)

Sol. $27 > 81 \$ 9 < 6$

$\Rightarrow 27 + 81 \div 9 - 6$

$\Rightarrow 27 + 9 - 6$

$\Rightarrow 30$

46. If the seventh (7^{th}) day of the month is Tuesday, what day will it be on the 19^{th} day of the month ?

(A) Sunday (B) Monday (C) Wednesday (D) Friday

Ans. (A)

Sol. 7^{th} - Tuesday

$\Rightarrow 19 - 7 \Rightarrow 12$

$\Rightarrow \frac{12}{7} \Rightarrow r = 5$ [odd days]

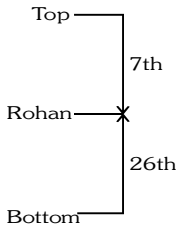
Tuesday + 5 $\Rightarrow$ Sunday

47. Rohan ranks 7^{th} from the top and 26^{th} from the bottom in a class. How many students are there in the class ?

(A) 31 (B) 32 (C) 33 (D) 34

Ans. (B)

Sol.



Total students $\Rightarrow 7 + 26 - 1$

$\Rightarrow 32$

48. In the following Number series, how many alphabets are written twice, consecutively ?

G O S S R G M L G T O P Q Q R P P S O G

(A) 3 (B) 5 (C) 1 (D) 2

Ans. (A)

Sol. G O $\boxed{S\ S}$ R G M L G T O P $\boxed{Q\ Q}$ R $\boxed{P\ P}$ S O G

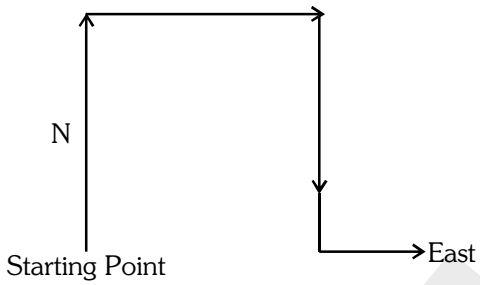
$\Rightarrow$ Three pairs

49. You go North, turn right, then turn right again and then go to the left. In which direction you are now.

(A) North (B) South (C) East (D) West

Ans. (C)

Sol.



50. In the following four words. Which word will come third in the English dictionary ?

(A) Fallible (B) Faithfully (C) False (D) Follow

Ans. (C)

Sol.

(1)	(2)	(3)	(4)
Faithfully	Fallible	False	Follow

51. Which of the following words will come third in English dictionary ?

(A) Magnify (B) Magnetic (C) Magical (D) Martial

Ans. (A)

Sol.

(1)	(2)	(3)	(4)
Magical	Magnetic	Magnify	Martial

52. $66 \times 83 = 8636$

$56 \times 73 = 7635$

$46 \times 63 = 6634$

$36 \times 53 = ?$

(A) 5633 (B) 5643 (C) 5655 (D) 5663

Ans. (A)

Sol. (4)(2) (1)(3)

$66 \times 83 = 836$

$56 \times 73 = 7635$

$46 \times 63 = 6634$

$36 \times 53 = 5633$

53. If 9 - 3 - 1 = 913, 6 - 5 - 4 = 645, then 8 - 7 - 0 =

(A) 708 (B) 780 (C) 807 (D) 804

Ans. (C)

Sol. (1) (3) (2)

9 - 3 - 1 = 913

(1) (3) (2)

6 - 5 - 4 = 645

(1) (3) (2)

8 - 7 - 0 = 807

54. On subtracting 9 from this number, its digits are reversed. Point out the number.

(A) 36 (B) 45 (C) 54 (D) 27

Ans. (C)

Sol. Checking by options

(A) 36 - 9 = 27

(B) 45 - 9 = 36

(C) 54 - 9 = 45

(D) 27 - 9 = 38

Clearly '54' is reverse and we get '45' on subtracting 9.

55. How many 4's are there in the series below which are preceded by 8 and followed by 0.

840480480480840804804840804

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

Ans. (B)

Sol. 4's preceded by 8 and followed by 0.

$\therefore$ we want '840'.

840480480480840804804840804

We are having 3 combination in the series.

56. An athlete runs 10 km in 30 min. Then his speed in km/h is

(A) 25 km/h (B) 20 km/h (C) 30 km/h (D) 10 km/h

Ans. (B)

Sol. 10 km in 30 min.

10 km in $\frac{30}{60}$ hr.

$\Rightarrow$ 10 km in 0.5 hr

$$\text{Speed} = \frac{\text{distance}}{\text{Time}}$$

$$\text{Speed} = \frac{10}{0.5} \Rightarrow \frac{100}{5} = 20\,\text{km / hr}$$

57. A and B together can do a piece of work in 6 days. A alone can do it in 9 days. In how many days can B alone do it.

(A) 18 (B) 14 (C) 16 (D) 20

Ans. (A)

Sol. $\left[\left(\frac{1}{A}\right)+\left(\frac{1}{B}\right)\right]\times 6 = 1$ .....(1)

According to question

$$\left(\frac{1}{A}\right)\times 9 = 1 \Rightarrow A = 9$$

Put value of A in equation. (1)

$$\left(\frac{1}{9}+\frac{1}{B}\right) = \frac{1}{6}$$

$$\Rightarrow \frac{1}{B} = \frac{1}{6} - \frac{1}{9}$$

$$\Rightarrow \frac{1}{B} = \frac{9-6}{54}$$

$$\frac{1}{B} = \frac{3}{54}$$

$B = 18$

$$\therefore \left(\frac{1}{B}\right)\times d = 1$$

$\frac{1}{18} \times d = 1$

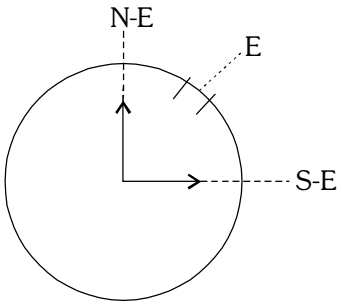
d = 18 days

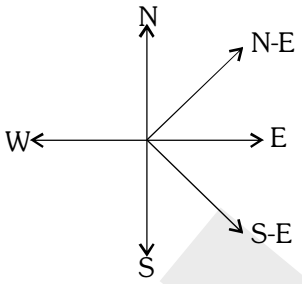
58. It's 3 O' clock in a wrist watch. If the minute hand points towards North-East direction, then the hour hand will point towards which direction ?

(A) South- West (B) North-West (C) South (D) South-East

Ans. (D)

Sol.





Direction : [Q.No. 59 to 62]

In a certain code, 'ca na da' means. 'how are you'; 'ta na co' means 'we are happy'; 'ta po da' means 'we and you'

59. Which is the code for 'happy'?

(A) ca (B) co

(C) po (D) na

Ans. (B)

ca na da —— how are you

ta na co —— We are happy

ta pa da —— we and you

Code of 'happy' is 'co' [By observing above coding]

60. What is the code for 'how'?

(A) ca (B) ta

(C) po (D) co

Ans. (A)

'How' code is 'ca'

61. What is the code for 'you are happy'?

(A) ca co na (B) ta na co

(C) po ca da (D) da na co

Ans. (D)

code for 'you are happy'

$\Rightarrow$ da na co

62. 'how you happy' will be coded as?

(A) po ca da (B) ca da co

(C) na da na (D) co ca po

Ans. (B)

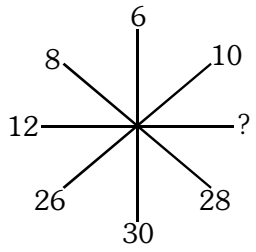
'How you happy'

$\Rightarrow$ ca da co

Direction : Questions (63 to 64)

Find the missing numerical value in following questions.

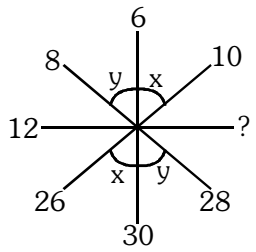
63.



(A) 26 (B) 25 (C) 24 (D) 38

Ans. (C)

Sol.



Difference of opposite pairs are same

$x = 30 - 26 = 4$ & $10 - 6 = 4$

$y = 8 - 6 = 2$ & $30 - 28 = 2$

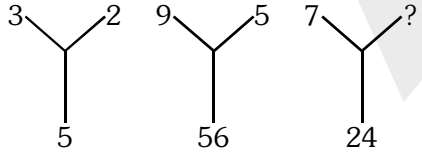
$\therefore$ $26 - 12 = ? - 10$

$14 = ? - 10$

$14 + 10 = ?$

$24 = ?$

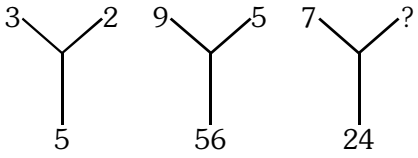
64.



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

Ans. (A)

Sol.



$3^2 - 2^2 = 9 - 4 = 5$

$9^2 - 5^2 = 81 - 25 = 56$

$7^2 - ?^2 = 24$

$49 - ?^2 = 24$

$49 - 24 = ?^2$

$25 = ?^2$

$\sqrt{25} = ?$

$5 = ?$

65. Arrange the following events in the order as they occur to form meaningful sequence.

1. Consultation, 2. Illness, 3. Treatment, 4. Recovery

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

Ans. (A)

Sol. (2) Illness

order (1) - Consultations

(3) Treetment

(4) Recovery

66. In a certain code, 'FISH' is written 'EHRG' how will 'JUNGLE' be written in that code?

(A) ITNFKD (B) ITMFKD (C) IKMFKD (D) TIMFKD

Ans. (B)

Sol.

FISH

↑↑↑↑ +1

EHRG

JUNGLE

↑↑↑↑↑↑ +1

ITMFKD

67. If 'A' denotes '+' 'B' denotes '$\div$', 'C' dentoes '–', 'D' denotes '$\times$', then

5 A 1 4 B 2 D 2 C 2 = ?

(A) 20 (B) 17 (C) 19 (D) 16

Ans. (B)

Sol. 5 A 1 4 B 2 D 2 C 2

$5 + 14 \div 2 \times 2 - 2$

$= 5 + 7 \times 2 - 2$

$= 5 + 14 - 2$

$= 17$

68. If $9 * 4 = 169$, then what is the value of $14 * 1$?

(A) 144 (B) 169

(C) 125 (D) 225

Ans. (D)

Sol. $9 * 4 = 169$

$\Rightarrow 9 + 4 = 13$ then $13^2 = 169$

$14 * 1 \Rightarrow 14 + 1 = 15$ then $15^2 = 225$

69. Divide Rs. 640 among A, B & C so that A have 30%, B have 45% & C have the rest. How much the C have?

(A) 160 (B) 232 (C) 212 (D) 200

Ans. (A)

Sol. C have 25 % of 640

$\Rightarrow \frac{1}{4} \times 640 = 160$

70. 'A' is 3 years older than 'B' and 3 years younger to 'C', while 'B' & 'D' are twins. How many years is C older than D.

(A) 06 (B) 07 (C) 05 (D) 04

Ans. (A)

Sol. A = B + 3 ---- (i)

A = C – 3 -----(ii)

B = D ---------- (iii)

On solving (i) (ii) & (iii)

D + 3 = C – 3

$\Rightarrow C - D = \boxed{6}$

$\Rightarrow$ C is 6 years older than D.

Direction : [Q. 71 – 72] Arrange the given words as they occur in the dictionary.

71. (1) Inward, (2) Ion, (3) Iodine, (4) Invite, (5) Iodoform.

(A) (4), (1), (2), (5), (3) (B) (4), (1), (3), (5), (2) (C) (1), (3), (2), (4), (5)
(D) (5), (4), (1), (2), (3)

Ans. (B)

Sol. As per the dictionary, the arrangement are as follows :

(4) Invite

(1) Inward

(3) Iodine

(5) Iodoform

(2) Ion

72. (1) Matter (2) Meal (3) Maze (4) Maximum (5) Mean

(A) (2), (3), (5), (4), (1) (B) (1), (4), (2), (5),k (3) (C) (1), (4), (3), (2), (5)
(D) (4), (1), (3), (2), (5)

Ans. (C)

Sol. As per the dictionary, the arrangment are as follows :

(1) Matter

(4) Maximum

(3) Maze

(2) Meal

(5) Mean

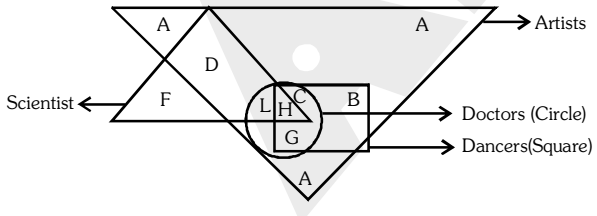
73. If the digits of number 6492758 are written in ascending order, then how many digits will remain unchanged.

(A) one (B) two (C) none (D) three

Ans. (B)

Sol.
6 4 92 7 58
2 4 56 7 89

Direction : [Q.74 – 78] Study the figure & answer the question given below.



74. Which letter represents the Artists who are doctors and dancers only.

(A) A (B) D

(C) G (D) H

Ans. (C)

Sol. It is clear from the figure.

75. Which letter represents the Artists who are neither scientists nor doctors?

(A) A and B (B) A and L

(C) B and G (D) L and H

Ans. (A)

Sol. It is clear from the figure.

76. Which letter represents the Artists who are dancers as well doctors only.

(A) A and D (B) C and G

(C) C and D (D) G and H

Ans. (B)

Sol. It is clear from the figure.

77. Which letter represents the Artists who are neither doctors nor scientists nor dancers?

(A) A (B) D (C) F (D) G

Ans. (A)

Sol. It is clear from the figrue.

78. Which letter represents the scientists only.

(A) B (B) D (C) F (D) L

Ans. (C)

Sol. It the clear from the figure.

79. A class of boys stands in a single line. One boy is nineteenth in order from both the ends. How many boys are there in the class.

(A) 27 (B) 37 (C) 38 (D) 39

Ans. (B)

Sol. Number of boys = 19 + 19 – 1

= 38 – 1

= 37

80. 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

(A) Four (B) Five (C) Six (D) Seven

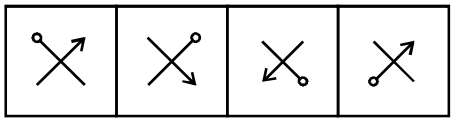
Ans. (A)

Sol. The pairs are :

64; 42; 53; 86

Direction : [Q. 81 – 90] Choose the odd figure out of the given.

81.

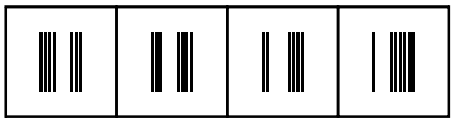


(A) (B) (C) (D)

Ans. (D)

Sol. In the figure (D), Both arrow and dot are situated on one line.

82.

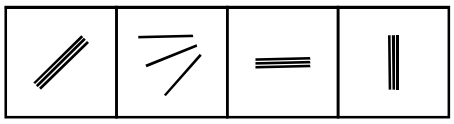


(A) (B) (C) (D)

Ans. (C)

Sol. Total no of lines are 7 in the remaining three figures except(C).

83.

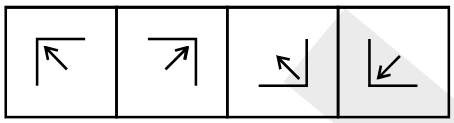


(A) (B) (C) (D)

Ans. (B)

Sol. All three lines are parallel in the remaining three figures except(B).

84.

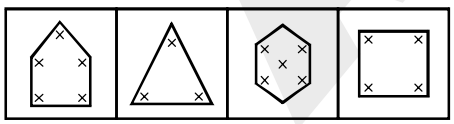


(A) (B) (C) (D)

Ans. (C)

Sol. All the figures except(C) have inwards arrow.

85.



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

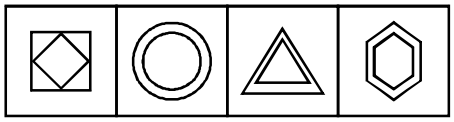
Ans. (C)

Sol. In all the figures except (C),

No of cross = No of vertices

except(3)

86.

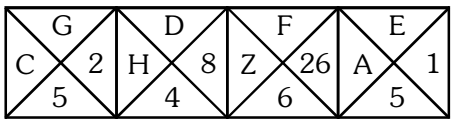


(A) (B) (C) (D)

Ans. (A)

Sol. In all except(A), identical figures are there.

87.

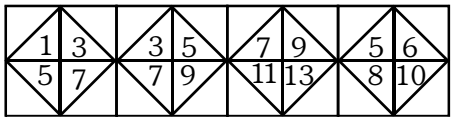


(A) (B) (C) (D)

Ans. (A)

Sol. In all figures except(A), letters and its correspoding positions are there.

88.



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

Ans. (D)

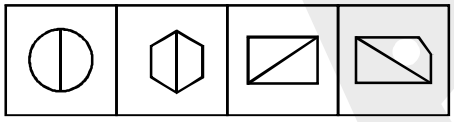
Sol. $1 \xrightarrow{+2} 3$

$+2 \downarrow$

$5 \xrightarrow{+2} 7$

The above pattern follows in all options except (D).

89.

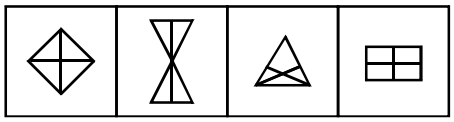


(A) (B) (C) (D)

Ans. (D)

Sol. except (D), in all the figures lines divides the figures in identical shapes.

90.



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

Ans. (C)

Sol. except (C), in all the figures lines divides the figures in identical shapes.

Direction : [Q. No. 91 to 95] Study the following information and answer the given questions.

i) B and E are good in Dramatics & computer Science

ii) A and B are good in Computer Sc. and Physics

iii) A, D and C are good in Physics and History

iv) C and A are good in Physics & Mathematics

v) D and E are good in History and Dramatics

	Dramatics	Computer Science	Physics	History	Mathematics
A		√	√	√	√
B	√	√	√		
C			√	√	√
D	√	√	√	√	
E	√	√		√	

91. Who is good in Physics, History & Dramatics?

(A) A (B) B

(C) D (D) E

Ans. (C)

Sol. D is good in Physics, History & Dramatics.

92. Who is good in Phyiscs, History & Mathematics, but not in Computer Science?

(A) A (B) B

(C) C (D) D

Ans. (C)

Sol. C is good in Physics, History & Mathematics but not in Computer Science.

93. Who is good in Computer Science, History and Dramatics?

(A) A (B) B

(C) C (D) E

Ans. (D)

Sol. E is good in Computer Science, History & Dramatics.

94. Who is good in History, Physics, Computer Science and Mathematics?

(A) A (B) B

(C) C (D) D

Ans. (A)

Sol. A is good in History, Physics, Computer Science & Mathematics.

95. Who is good in Physics, Dramatics & Computer Science?

(A) A (B) B

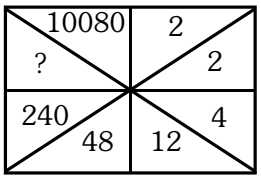
(C) D (D) E

Ans. (B)

Sol. B is good in Physics, Dramatics & Computer Science.

Direction : [Q. No. 96 to 98] Find the missing number from among the given alternatives.

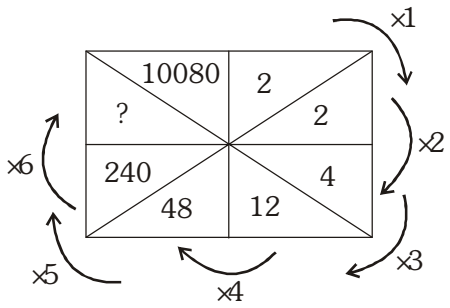
96.



(A) 1440 (B) 2880

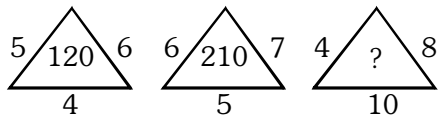
(C) 860 (D) 1140

Ans. (A)



$240 \times 6 = 1440$

97.



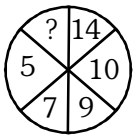
(A) 310 (B) 320

(C) 330 (D) 300

Ans. (B)

Sol. $5 \times 4 \times 6 = 120$
$6 \times 5 \times 7 = 210$
$4 \times 8 \times 10 = 320$

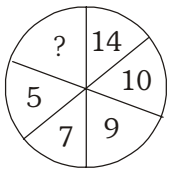
98.



(A) 3 (B) 6 (C) 18 (D) 2

Ans. (C)

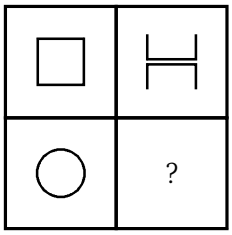
Sol.



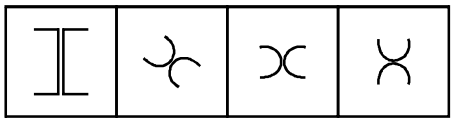
opposite number is doubled.
$\therefore 9 \times 2 = 18$

Direction : [Q. No. 99 - 100] In each of the following questions; find out which of the answer figure complete the matrix.

99. Question Figure



Answer Figure

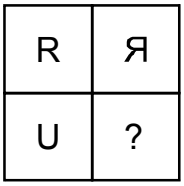


(A) (B) (C) (D)

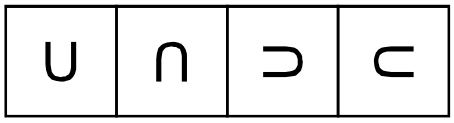
Ans. (D)

Sol. First figure is halved and joined invertly to get second figure

100. Question Figure



Answer Figure



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

Ans. (A)

Sol. Second figure is the mirror image of first.