NATIONAL TALENT SEARCH EXAMINATION-2019-20, UTTAR PRADESH

MENTAL ABILITY TEST (MAT)_ PAPER & HINTS & SOLUTION

1. Read the following instructions carefully before you answer the questions. Answers are to be SHADED on a SEPARATEOMR 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 12 each question has four terms. Each terms are alike in some way. One term is different from three others. Find out the correct term which is different from three others and write its alternative number on your answer sheet against the proper question number-

1. (1) R 81 (2) L 19 (3) W 25 (4) M 16
Ans. (2)
Sol. Number given in the question are perfect square except option(2) 2.

2. (1) CJM (2) PGW (3) RBT (4) SFH
Ans. (4)
Sol. CJM $\Rightarrow$ 3 + 10 = 13 $\Rightarrow$ M
RGW $\Rightarrow$16 + 7 = 23 $\Rightarrow$W
RBT $\Rightarrow$ 18 + 2 = 20 $\Rightarrow$T
SFH $\Rightarrow$ 19 + 6 = 25 $\Rightarrow$Y

3. (1) Z8R (2) Q13D (3) M22K (4) T14F
Ans. (3)
Sol. Z(26) – R(18) = 8
Q(17) – D(4) = 13
M(13) – K(11) = 2
T(20) – F(6) = 14

4. (1) BDG (2) HJM (3) QSV (4) KMH
Ans. (4)
Sol. BDG $\Rightarrow$ B + 2 = D, D + 3 = G
HJM $\Rightarrow$ H + 2 = J, J + 3 = M
QSV $\Rightarrow$ Q + 2 = S, S + 3 = V
KMH $\Rightarrow$ K + 2 = M, M + 3 = N

5. (1) Lion (2) Deer (3) Wolf (4) Fox
Ans. **(2)**
Sol. All except Deer are carniverous animals.

6. (1) Labour (2) Doctor (3) Student (4) Tailor
Ans. **(3)**
Sol. All except student are profession

7. (1) Deputy Chief Minister (2) Governor
(3) Prime Minister (4) Chief Minister
Ans. (2)
Sol. All except governer are part of cabinet minitry

8. (1) Kanpur (2) Lucknow (3) Merut (4) Mirzapu
Ans. (3)
Sol. All except merut are correctly spelled

9. (1) 13, 7 (2) 24, 19 (3) 36, 27 (4) 45, 29

Ans. (3)
Sol. All except option (3) are coprime number.

10. (1) 1980 (2) 1924 (3) 1946 (4) 1996
Ans. (4)
Sol. All except option (4) have sum as even number.

11. (1) 133 (2) 147 (3) 182 (4) 234
Ans. **(4)**
Sol. All except 234 are divisible by 7.

12. (1) 32.5 (2) 43.5 (3) 58.5 (4) 73.5
Ans. (1)
Sol. All except 32.5 are divisible by 0.3

Direction- In question no. 13 to 24 are based on number / letter series. In each series missing term is indicated by
Blank space (–). Find out the missing term out of the four alternatives given below and write its alternative number against the correct question number on your answer sheet-

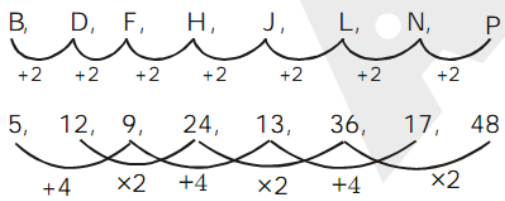
13. 1_44_6114_661_446_
(1) 61416 (2) 16416 (3) 41416 (4) 64616
Ans. **(2)**
Sol. 11|44|66|11|44|66|11|44|66

14. _A_CCA_BC_AABC_
(1) ABACC (2) ABACB (3) CABCA (4) AABCC
Ans. **(1)**
Sol. AABCC/AABCC/AABCC

15. 3,8, _, 68,_,608,1823
(1) 25, 199 (2) 29, 205 (3) 23, 203 (4) 24, 136
Ans. (3)
Sol. 3 × 3 – 1 = 8
8 × 3 – 1 = 23
23 × 3 – 1 = 68
68 × 3 – 1 = 203
203 × 3 – 1 = 608 ....

16. 9, 64, _ , 216, 49, _, 81
(1) 20, 72 (2) 25, 512 (3) 30, 64 (4) 32, 63
Ans. (2)
Sol. 32 = 9, 43 = 64, 52 = 25, 63 = 216, 72 = 49, 83 = 512, 92 = 81

17. $\frac{B}{5}, \frac{D}{12}, \_, \frac{H}{24}, \frac{J}{13}, \frac{L}{36}, \_, \frac{P}{48}$
(1) $\frac{E}{15}, \frac{N}{18}$ (2) $\frac{F}{18}, \frac{O}{16}$ (3) $\frac{F}{9}, \frac{N}{17}$ (4) $\frac{G}{9}, \frac{M}{17}$
Ans. (3)
Sol. B, D, F, H, J, L, N, P



18. 18. 121, 144, 169, 196, _
(1) 223 (2) 225 (3) 227 (4) 229
Ans. **(2)**
Sol. $11^2 = 121$, $12^2 = 144$, $13^2 = 169$, $14^2 = 196$, $15^2 = 225$

19. 216, 343, 512, 729, _, 1331
(1) 1000 (2) 894 (3) 819 (4) 1211
Ans. (1)
Sol. $6^3 = 216$, $7^3 = 343$, $8^3 = 512$, $9^3 = 729$, $10^3 = 1000$, $11^3 = 1331$

20. 78Z, 6C, 15E, _, 30J, 25M
(1) 24H (2) 21G (3) 18I (4) 16H
Ans. **(4)**
Sol. 78Z $\Rightarrow 78 \div 3 = 26 \rightarrow$ Z
6C $\Rightarrow 6 \div 2 = 3 \rightarrow$ C
15E $\Rightarrow 15 \div 3 = 5 \rightarrow$ E
So, Ans is 16H $\Rightarrow 16 \div 2 = 8 \rightarrow$ H

21. F_UR_OU_FO_RF_UR
(1) OFRUO (2) FUOOR (3) FROUO (4) ROUFO
Ans. **(1)**
Sol. FOUR|FOUR|FOUR|FOUR

22. 0, 2, 6, _, 20, 30, _
(1) 8 (2) 10 (3) 12 (4) 16
Ans. (3)
Sol. 0 + 2 = 2, 2 + 4 = 6, 6 + 6 = 12, 12 + 8 = 20, 20 + 10 = 30.

23. 9, 10, 8, 11, _, 12, 6, _, 5
(1) 7, 13 (2) 6, 13 (3) 7, 12 (4) 8, 12
Ans. (1)
Sol.

24. CD, XW, __, VU, GH, __, IJ, RQ
(1) FE, TS (2) DE, UT (3) FG, ST (4) EF, TS
Ans. **(4)**
Sol. 1st Alternate series : CD, EF, GH, IJ

2nd Alternate series : XW, VU, TS, RQ

25. In a certain code language if HUNDRED is written as NUHDDER, what will be code of KITCHEN in same language?
(1) HENTIKC (2) TIKCNEH (3) ITKHCNE (4) TKICNEH
Ans. **(2)**
Sol. HUN $\rightarrow$ NUH
D $\rightarrow$ D
RED $\rightarrow$ DER
So, code is NUHDDER

KIT $\rightarrow$ TIK
C $\rightarrow$ C
HEN $\rightarrow$ NEH
So, code is TIKCNEH

26. In a certain code language if POSTMAN is written as OPRTLBM, what will be code of BROTHER in same language?
(1) ARNTGDQ (2) CSNSIRE (3) QAPTEIS (4) ASNTGFQ

Ans. **(4)**

Sol.
P – 1 = O	B – 1 = A
O + 1 = P	R + 1 = S
S – 1 = R	O – 1 = N
T = T	T = T
M – 1 = L	H – 1 = G
A + 1 = B	E + 1 = F
N – 1 = M	R – 1 = Q
Code is OPRTLBM	Code is ASNTGFQ

27. In certain code language if BLOCK is written as 43, what will be code of HOUSE in same language?
(1) 68 (2) 61 (3) 67 (4) 63

Ans. **(1)**

Sol. B = 2, L = 12, O = 15, C = 3, K = 11
2 + 12 + 15 + 3 + 11 = 43
H = 8, O = 15, U = 21, S = 19, E = 5
8 + 15 + 21 + 19 + 5 = 68

28. In certain code language if BOUND is written as 112, what will be code of WHITE in same language?
(1) 132 (2) 103 (3) 130 (4) 123

Ans. **(3)**

Sol. B = 2, O = 15, U = 21, N = 14, D = 4
2 + 15 + 21 + 14 + 4 = 56
56 × 2 = 112
W = 23, H = 8, I = 9, T = 20, E = 5
23 + 8 + 9 + 20 + 5 = 65
65 × 2 = 130

29. In certain code language if ELEPHANT is written as LEPEAHTN, what will be code of QUESTION in same language?
(1) UQSEITNO (2) SEUQNOTI (3) UQESTINO (4) EUQITSON

Ans. **(1)**

Sol. In, ELEPHANT, Pair of two letter are inter changed, and code formed is
LEPEAHTN

30. In certain code language if DRIVER is written as RDERVI, what will be code of WINDOW in same language?
(1) WIWOND (2) WIDNOW (3) WWOIDN (4) WOWDIN

Ans. **(3)**

Sol.
D R I V E R	⇒	R D E R V I
2 4 6 5 3 1	⇒	1 2 3 4 5 6
W I N D O W	⇒	W W O I D N
2 4 6 5 3 1		1 2 3 4 5 6

31. In certain code language if FROG is written as 2116, what will be code of NEST in same language?
(1) 3262 (2) 3364 (3) 3436 (4) 4363

Ans. **(2)**

Sol.
FROG	⇒	6 + 18 + 15 + 7 ⇒ 46
46_2	⇒	2116
NEST	⇒	14 + 5 + 19 + 20 ⇒ 58
58_2	⇒	3364

32. In certain code language if COVER is written as EMXCT, what will be code of BIRTH in same language?
(1) DJTSJ (2) CHSSI (3) AGSQI (4) DGTRJ

Ans. **(4)**

Sol. C O V E R ⇒ E M X C T
+2 –2 +2 –2 +2
B I R T H ⇒ D G T R J
+2 –2 +2 –2 +2

33. In a certain code language if XDRL is written as 12296, what will be code of NHTV is same language?
(1) 72511 (2) 1481022 (3) 741011 (4) 7856

Ans. **(3)**

Sol. X ⇒ 24 ÷2 = 12 N ⇒ 14 ÷2 = 7
D ⇒ 4 ÷2 = 2 H ⇒ 8 ÷2 = 4
R ⇒ 18 ÷2 = 9 T ⇒ 20 ÷2 = 10
L ⇒ 12 ÷2 = 6 V ⇒ 22 ÷2 = 11

34. In certain code language if HOCKEY is written as YOKCEH, what will be code of PENCIL in same language?
(1) LECNIP (2) LICNEP (3) NCEILP (4) LICNPE

Ans. **(1)**

Sol. H O C K E Y ⇒ Y O K C E H
6 2 4 3 5 1 1 2 3 4 5 6
P E N C I L ⇒ L E C N I P
6 2 4 3 5 1 1 2 3 4 5 6

35. In certain code language if RUBBER is written as BERRUB, what will be code of BUTTER in same language?
(1) TTBUR (2) TERBUT (3) TUTREB (4) UBTTRE

Ans. **(2)**

Sol. RUB BER → BER : RUB
BUT TER → TER : BUT

36. In certain code language is SHARP is written as 58034, what will be code of RASH in same language?
(1) 3058 (2) 3045 (3) 3854 (4) 5384

Ans. **(1)**

Sol. S H A R P → R A S H
5 8 0 3 4 3 0 5 8

Direction- In question 37 to 48 the equations have become wrong because of the wrong order of signs. Choose the correct order in signs from the four options given below so as to make the equations correct. Write the alternative number of the correct option of the answer sheet against the corresponding question number-

37. 2 + 40 – 92 = 8 × 20
(1) × = + – (2) – + = × (3) = × + – (4) + – × =

Ans. **(1)**

Sol. 2 × 40 = 92 + 8 – 20
80 = 80

38. 34 – 6 = 18 ÷ 66 + 3
(1) = ÷ + – (2) ÷ + – = (3) + – = ÷ (4) + ÷ = –

Ans. **(3)**

Sol. 34 + 6 –18 = 66 ÷3
22 = 22

39. $2 - 21 \times 7 = 17 \div 11$

(1) × – = ÷ (2) × = – ÷ (3) = – × ÷ (4) × ÷ = –

Ans. **(4)**

Sol. $2 \times 21 \div 7 = 17 - 11$

$6 = 6$

40. $7 \times 3 = 4 - 6 + 1$

(1) – + = × (2) + – = × (3) – + × = (4) + – × =

Ans. **(2)**

Sol. $7 + 3 - 4 = 6 \times 1$

$6 = 6$

41. $63 = 7 \div 44 + 6 - 41$

(1) ÷ + = – (2) = + ÷ – (3) ÷ – = + (4) ÷ = + –

Ans. **(4)**

Sol. $63 \div 7 = 44 + 6 - 41$

$9 = 9$

42. $69 \times 25 = 10 + 6 - 9$

(1) – + = × (2) = + × – (3) = × + – (4) × + – =

Ans. **(1)**

Sol. $69 - 25 + 10 = 6 \times 9$

$54 = 54$

43. $41 = 32 + 10 = 9 + 54$

(1) + = – + (2) + – = + (3) = + + – (4) = + – +

Ans. **(2)**

Sol. $41 + 32 - 10 = 9 + 54$

$63 = 63$

44. $5 = 5 + 3 \div 17 \times 8$

(1) × + = ÷ (2) + × ÷ = (3) × ÷ = + (4) + = ÷ ×

Ans. **(3)**

Sol. $15 \times 5 \div 3 = 17 + 8$

$25 = 25$

45. $38 + 2 - 46 = 33 \times 3$

(1) = × + – (2) × + = – (3) × = + – (4) – + = ×

Ans. **(3)**

Sol. $38 \times 2 = 46 + 33 - 3$

$76 = 76$

46. $15 = 7 \times 2 - 5 + 4$

(1) × – + = (2) × – + = (3) – + = × (4) + – = ×

Ans. **(4)**

Sol. $15 + 7 - 2 = 5 \times 4$

$20 = 20$

47. $24 - 6 + 9 \div 2 = 7$

(1) ÷ = + – (2) + = ÷ – (3) + = – ÷ (4) + – = ÷

Ans. **(1)**

Sol. $24 \div 6 = 9 + 2 - 7$

$4 = 4$

48. $5 = 8 - 29 + 4 \times 15$

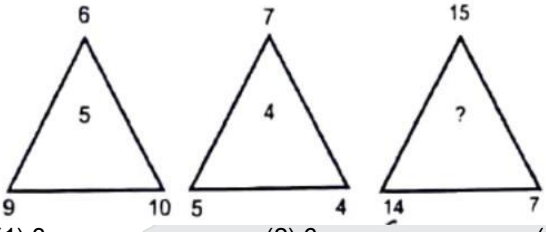
(1) – = + × (2) + – = × (3) × = – + (4) + × = –

Ans. **(3)**

Sol. 5 × 8 = 29 – 4 + 15
40 = 40

Direction- Question no 49 to 58 numbers are lace in figure on the basis of some rules. One place in vacant which is indicated as (?). Find out the correct alternative for the vacant place and write its number against the proper question number on your answer sheet-

49.



(1) 3 (2) 6 (3) 8 (4) 10

Ans. **(2)**

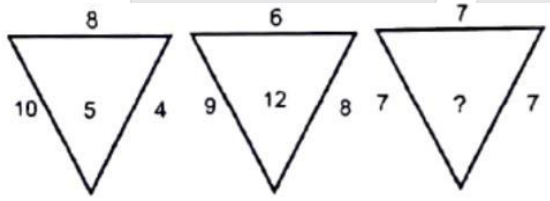
Sol. $15 + 14 + 7 = \sqrt{36} = 6$

$9 + 6 + 10 = \sqrt{25} = 5$

$14 + 7 + 15 = \sqrt{36} = 6$

$7 + 5 + 4 = \sqrt{16} = 4$

50.

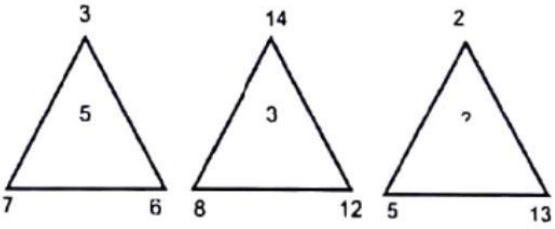


(1) 19 (2) 13 (3) 7 (4) 4

Ans. **(3)**

Sol. (10 × 4) ÷ 8 = 5
(9 × 8) ÷ 6 = 12
(7 × 7) ÷ 7 = 7

51.



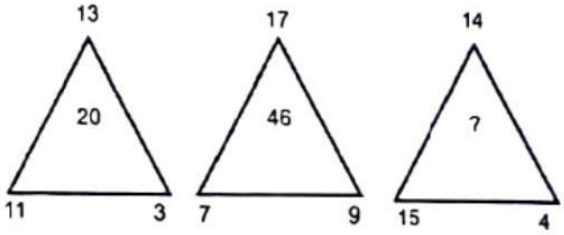
(1) 4 (2) 6 (3) 8 (4) 10

Ans. **(3)**

$$\frac{(7+6)-3}{2}=5$$

$$\frac{(12+8)-14}{2}=3$$

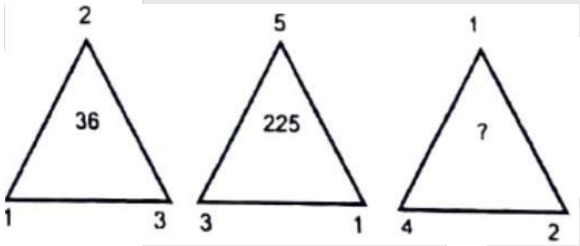
Sol. $$\frac{(5+13)-2}{2}=8$$

52. 

(1) 20 (2) 57 (3) 28 (4) 46

Ans. **(4)**

Sol. $(11 \times 3) - 13 = 20$
$(7 \times 9) - 17 = 46$
$(15 \times 4) - 14 = 46$

53. 

(1) 49 (2) 64 (3) 89 (4) 120

Ans. **(2)**

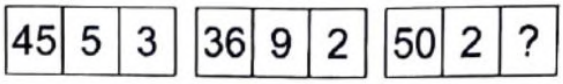
$(3 \times 2 \times 1)^2 = 36$
$(3 \times 1 \times 5)^2 = 225$
$(4 \times 2 \times 1)^2 = 64$

54. 

(1) 25 (2) 52 (3) 21 (4) 12

Ans. **(1)**

Sol. $(9 \times 8) + (9 - 8) = 73$
$(6 \times 4) + (6 - 4) = 26$
$(7 \times 3) + (7 - 3) = 25$

55. 

(1) 4 (2) 7 (3) 5 (4) 8

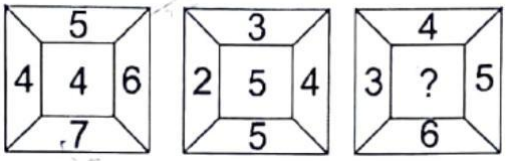
Ans. **(3)**

$(45 \div 5)^{\frac{1}{2}} = 3$

$(36 \div 9)^{\frac{1}{2}} = 2$

Sol.

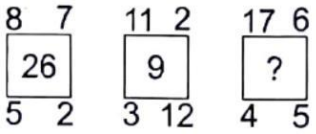
$(50 \div 2)^{\frac{1}{2}} = 5$

56. 

(1) 6 (2) 7 (3) 8 (4) 9

Ans. **(4)**

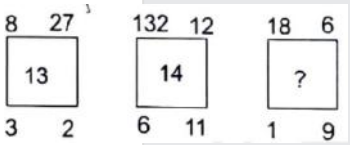
Sol. 5 + 6 + 7 + 4 = 22 ⇒ 2 + 2 = 4
3 + 4 + 5 + 2 = 14 ⇒ 1 + 4 = 5
4 + 5 + 6 + 3 = 18 ⇒ 1 + 8 = 9

57. 

(1) 18 (2) 28 (3) 38 (4) 48

Ans. **(3)**

Sol. (8 × 5) – (7 × 2) = 26
(11 × 3) – (2 × 12) = 9
(17 × 4) – (6 × 5) = 38

58. 

(1) 15 (2) 12 (3) 10 (4) 8

Ans. **(4)**

Sol. (27 ÷3) + (8 ÷2) = 13
(13 ÷11) + (12 ÷6) = 14
(18 ÷9) + (6 ÷1) = 8

Direction- Question no 59 to 63 are based on the following information. Read carefully the information and find out the correct alternative for each question

Ramesh likes to study Hindi, English and Maths.
Suresh likes to study Science, English and Hindi.
Ahmad like to study English, Maths and Geography.
Bobby likes to study Maths, Science and Hindi.
Gopal likes to study only Hindi.

59. Which subject is liked by most of the boys?

(1) Science (2) English (3) Hindi (4) Maths

Ans. **(3)**

Sol. Ramesh – H E M
Suresh – H E S
Ahmed – E M G
Bobby – H M S
Gopal – H

60. How many boys like English?

(1) One (2) Two (3) Three (4) Five

Ans. (3)

Sol. Ramesh – H E M
Suresh – H E S
Ahmed – E M G
Bobby – H M S

Gopal – H

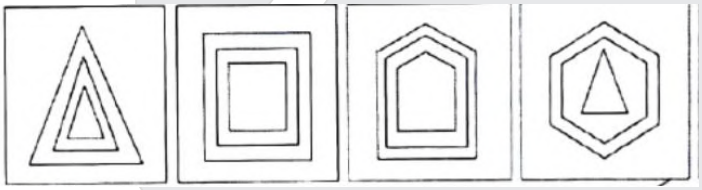
61. How many boys like Science?
(1) One (2) Two (3) Three (4) Five
Ans. (2)
Sol. Ramesh – H E M
Suresh – H E S
Ahmed – E M G
Bobby – H M S
Gopal – H

62. Which subject is liked by least of the boys?
(1) Geography (2) English (3) Science (4) Maths
Ans. (1)
Sol. Ramesh – H E M
Suresh – H E S
Ahmed – E M G
Bobby – H M S
Gopal – H

63. How many boys like Maths?
(1) Four (2) Three (3) Two (4) One
Ans. **(2)**
Sol. Ramesh – H E M
Suresh – H E S
Ahmed – E M G
Bobby – H M S
Gopal – H

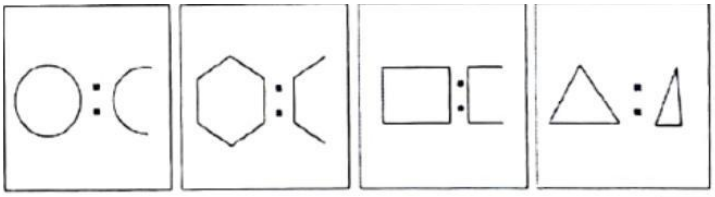
Direction- Question no 64 to 68 each question has four terms. Three terms (figure) are alike in some way. One term (figure) is different from three others. Find out the correct term which is different from three others and write its alternative number of your answer sheet against the proper question number-

64.

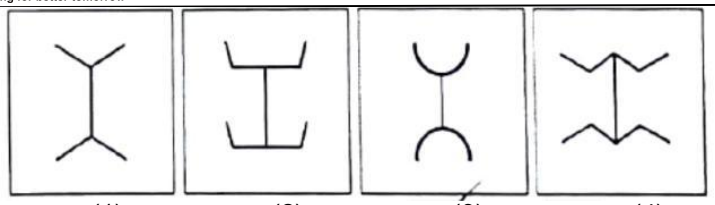


(1) (2) (3) (4)
Ans. **(4)**
Sol. Different number of sides

65.

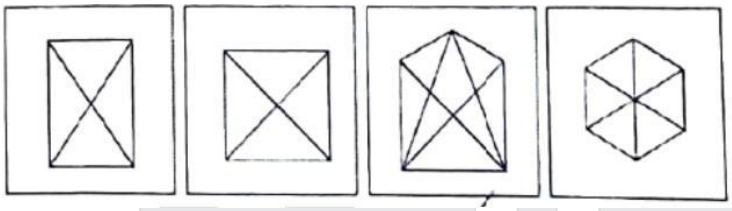


(1) (2) (3) (4)
Ans. **(4)**
Sol. Complete shape

66. 

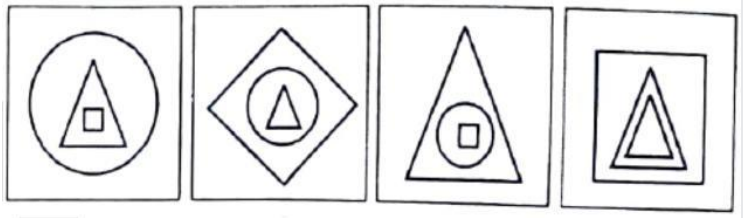
(1) (2) (3) (4)

Ans. **(2)**
Sol. Upper and lower part in same direction

67. 

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

Ans. **(3)**
Sol. Unequal diagonals

68. 

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

Ans. **(4)**
Sol. 2 Triangle and no circle

Direction- In question 69 84 there are four terms in each question. The relation that exist between the terms left to the symbol :: is the same between the terms right to the symbol ::. Out of the four terms one term is missing in each question. The missing term is one of the four alternatives given below each equation. Find out the correct alternative and write its number on your answer sheet against the proper question-

69. RSTY : YXWV :: GHIJ : ?
(1) NMLK (2) MLKJ (3) NLMK (4) MKJL
Ans. **(1)**
Sol. Reverse alphabet

70. $\frac{16}{3} : 4096 :: \frac{22}{2} : ?$
(1) 448 (2) 484 (3) 243 (4) 231
Ans. **(2)**
Sol. $(16)^3 \rightarrow 4096$
$(22)^2 \rightarrow 484$

71. DGK : 462 :: NIF : ?
(1) 648 (2) 630 (3) 540 (4) 756
Ans. (*)
Sol. (*)

72. Cold : Hot :: Life : ?
(1) Age (2) Death (3) Pleasure (4) Health
Ans. **(2)**

Sol. Opposite

73. Lock : Key :: Needle : ?
(1) Cloth (2) Iron (3) Tailor (4) Thread
Ans. **(4)**
Sol. Pair

74. Cricket : Run :: Hockey : ?
(1) Field (2) Goal (3) Ball (4) Player
Ans. **(2)**
Sol. Relation of game

75. MAN : REHTAF :: WOMAN : ?
(1) RAHTOM (2) RETHAM (3) REHTAM (4) REHTOM
Ans. (4)
Sol. MAN $\rightarrow$ FATHER reverse order REHTAF
WOMAN $\rightarrow$ MOTHER reverse order REHTOM

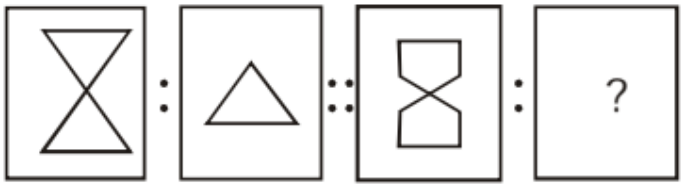
76. Ice : Water :: Water : ?
(1) Steam (2) River (3) Rain (4) Sea
Ans. (1)
Sol. Change of state

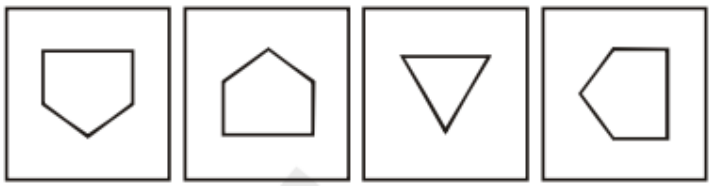
77. $\frac{2}{6} : 36 :: \frac{3}{2} : ?$
(1) 9 (2) 8 (3) 6 (4) 5
Ans. **(2)**
Sol. $(6)^2 = 36$
$(2)^3 = 8$

78. Brick : Soil :: Bread : ?
(1) Fire (2) Cook (3) Wheat (4) Flour
Ans. (4)
Sol. Making from flour

79. 491 : 7 :: 534 : ?
(1) 6 (2) 9 (3) 5 (4) 8
Ans. **(1)**
Sol. 4 + 9 + 1 = 14 ÷2 = 7
5 + 3 + 4 = 12 ÷2 = 6

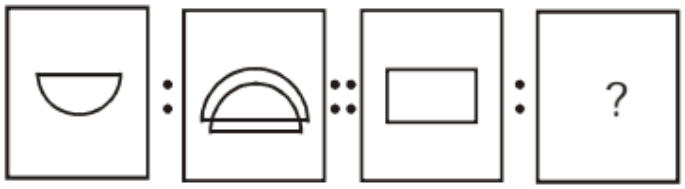
80.

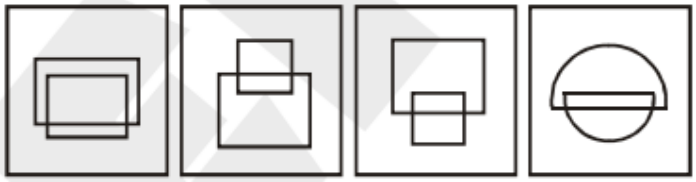




(1) (2) (3) (4)

Ans. **(2)**
Sol. Lower part of the figure

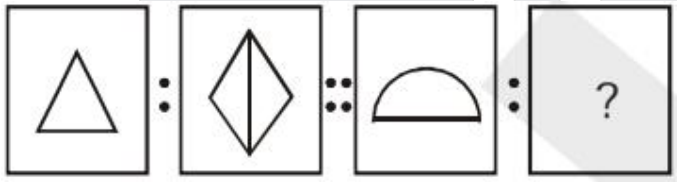
81. 

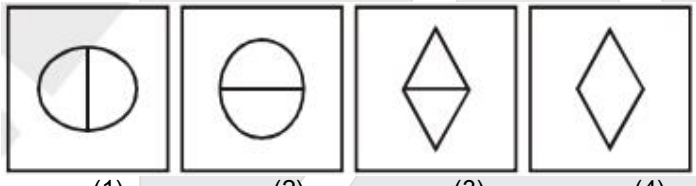


(1) (2) (3) (4)

Ans. (1)

Sol. Observation based question

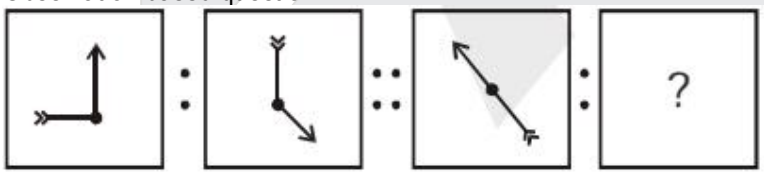
82. 

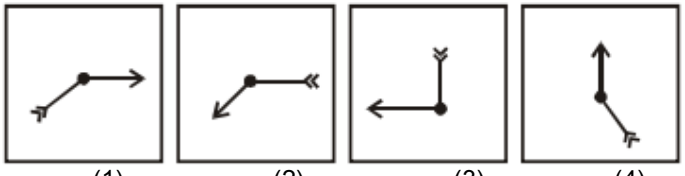


(1) (2) (3) (4)

Ans. (1)

Sol. Observation based question

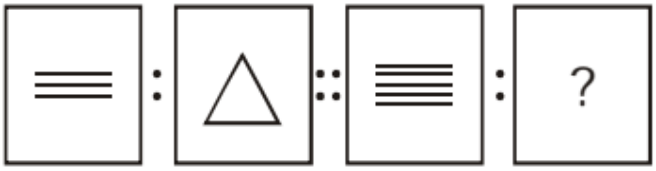
83. 

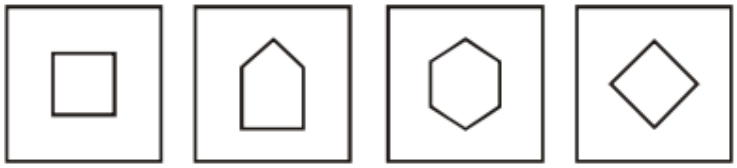


(1) (2) (3) (4)

Ans. (1)

Sol. Observation based question

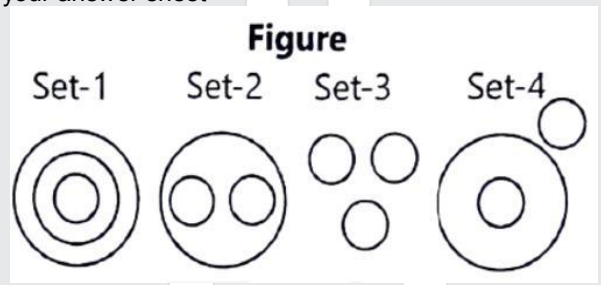
84. 



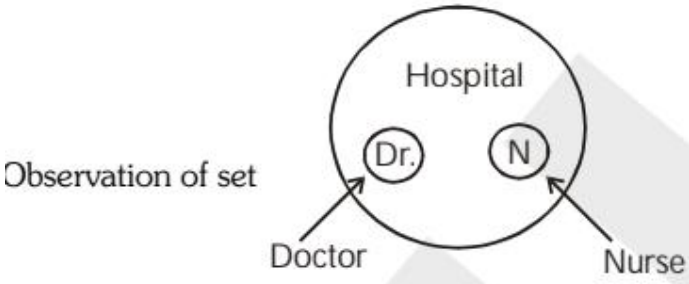
(1) (2) (3) (4)

Ans. **(2)**
Sol. Number of sides 5

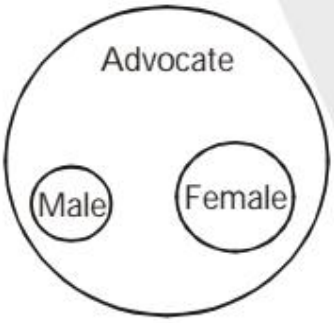
Direction- For question 85 to 95 four sets of circles have been given below. Three circles of sets have some relation with each other. Questions given below have three words each of which are also related to each other in some way. This relation between words is similar to that in one of the sets of circles. Find it out from the four options given below each question and write its serial number against corresponding question number on your answer sheet-



85. Hospital Doctor Nurse
(1) Set-4 (2) Set-1 (3) Set-2 (4) Set-3
Ans. **(3)**
Sol.



86. Advocate Female Male
(1) Set-4 (2) Set-1 (3) Set-3 (4) Set-2
Ans. **(4)**
Sol.

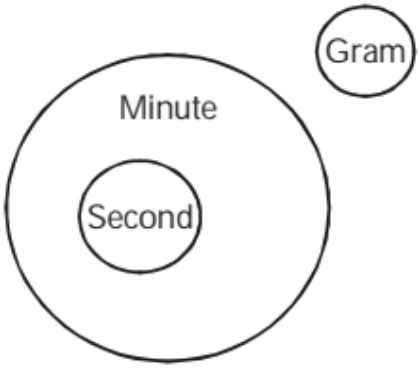


87. City Market Shop
(1) Set-1 (2) Set-4 (3) Set-3 (4) Set-2
Ans. **(1)**

Sol.

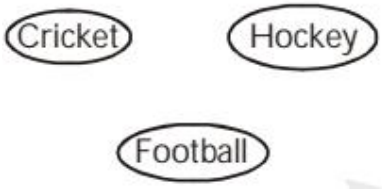
88. Minute Second Gram
(1) Set-1 (2) Set-2 (3) Set-3 (4) Set-4
Ans. **(4)**

Sol.



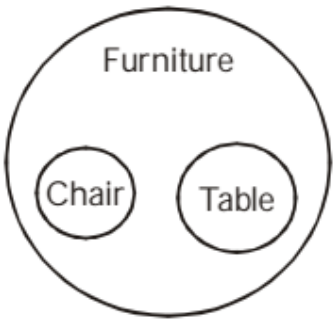
89. Cricket hockey Football
(1) Set-2 (2) Set-3 (3) Set-1 (4) Set-4
Ans. **(2)**

Sol.



90. Furniture Chair Table
(1) Set - 1 (2) Set - 4 (3) Set - 3 (4) Set - 2
Ans. **(4)**

Sol.

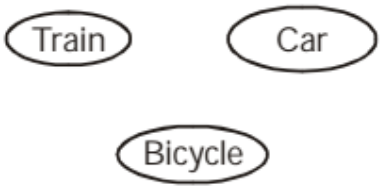


91. Train Car Bicycle

(1) Set-1 (2) Set-4 (3) Set-3 (4) Set-2

Ans. **(3)**

Sol.

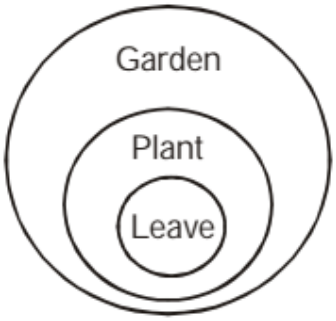


92. Garden Plant Leave

(1) Set-3 (2) Set-1 (3) Set-4 (4) Set-2

Ans. (2)

Sol.

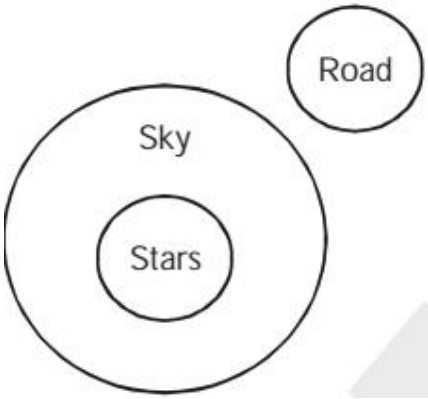


93. Sky Stars Road

(1) Set-4 (2) Set-3 (3) Set-2 (4) Set-1

Ans. **(1)**

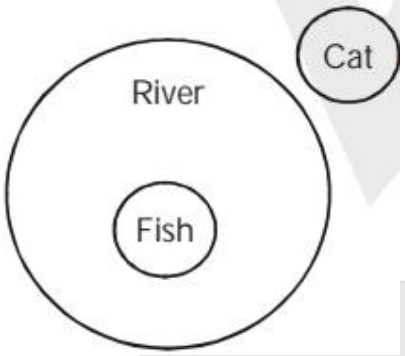
Sol.



94. River Fish Cat
(1) Set-3 (2) Set-4 (3) Set-1 (4) Set-2

Ans. **(2)**

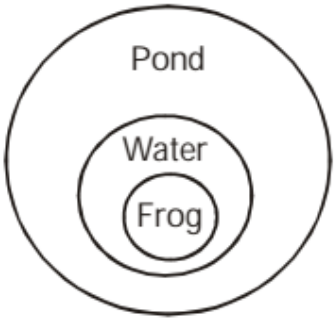
Sol.



95. Pond Water Frog
(1) Set-3 (2) Set-2 (3) Set-1 (4) Set-4

Ans. **(3)**

Sol.



Direction- Question no 96 to 100 are based on following statement. Read the statement carefully and find out correct alternative given for the question and write correct alternative number on your answer sheet against the corresponding question*Sam's age is one fourth of Ali's age. Sam is eleven years elder to*

Rahul but Deepak is five years younger to Rahul then-

96. Who is eldest
(1) Ali (2) Sam (3) Deepak (4) Rahul

Ans. **(1)**

Sol. $\text{Sam} = \frac{\text{Ali}}{4}$
Sam = 11 + Rahul
Deepak = Rahul – 5

97. Who is youngest
(1) Ali (2) Sam (3) Deepak (4) Rahul

Ans. **(3)**

Sol. $\text{Sam} = \frac{\text{Ali}}{4}$
Sam = 11 + Rahul
Deepak = Rahul – 5

98. If Deepak's age is nine years, what is teh age of Ali?
(1) 85 yrs (2) 90 yrs (3) 97 yrs (4) 100 yrs

Ans. **(4)**
Sol. Rahul = 14
Sam = 25
Ali = 100

99. What is the difference between the age of Sam and Deepak?
(1) 16 yrs (2) 9 yrs (3) 11 yrs (4) 5 yrs
Ans. (1)
Sol. Sam = Deepak + 16

100. If Deepak's age is eight years, how many years is Ali elder to Deepak?
(1) 92 yrs (2) 88 yrs (3) 80 yrs (4) 78 yrs
Ans. (2)
Sol. Deepak – 8
Sam = 24, Ali = 96, 96 – 8 = 88 year