

Chapter - 1

ANALOGY

Answer Key with Step-by-Step Solutions
Includes: All MCQs + Extra PYQs with Detailed Explanations

Previous Year Questions

1. XgmE : EmgX :: ? : BacK
(a) AckB (b) KcaC
(c) KcaB (d) KacC
2. GH : 78 :: EF : ?
(a) 34 (b) 45
(c) 56 (d) 78
3. CEDH : HDEC :: ? : PNRV
(a) VRNP (b) RNPV
(c) NRVP (d) VNRP
4. PZQW : NXOU :: FISK : ?
(a) EFPJ (b) FERI
(c) DGQI (d) HKVM
5. Light : Darkness :: Knowledge : ?
(a) Ignorance (b) Intelligence
(c) Brightness (d) Greative
6. Scissors : Cloth :: ?
(a) Pen : Ink (b) Razor : Beard
(c) Furnace : Smoke (d) Nail : Hammer
7. KML : NPO :: CED : ?
(a) EGF (b) GHF
(c) FHG (d) HGF
8. ADGJ : MPSV :: ? : NQTW
(a) BEHK (b) EHKM
(c) DGJN (d) QTVZ
9. Upset : Setup :: Tiptop : ?
(a) Totpop (b) Totpip
(c) Tippop (d) Toptip
10. 20 : 30 :: ? : 72
(a) 56 (b) 59
(c) 68 (d) 61
11. 342 : 453 :: 831 : ?
(a) 942 (b) 720
(c) 922 (d) 740
12. 30 : 130 :: ? : ?
(a) 20 : 120 (b) 37 : 210
(c) 42 : 222 (d) 49 : 350
13. SORROW : CRY :: MIRTH : ?
(a) JOY (b) LAUGHTER
(c) FROWN (d) WEEP
14. Love : Hate :: Proud : ?
(a) Sorrowful (b) Miserable
(c) Humble (d) Conceited
15. 3 : 30 :: 5 : ?
(a) 135 (b) 130
(c) 140 (d) 145
16. CFDB : XUWY :: GJHF : ?
(a) SPRT (b) TSQU
(c) TQSU (d) SPTR
17. Bore : 10 :: Hotel : ?
(a) 12 (b) 15
(c) 18 (d) 30
18. 2 : 7 :: 6 : ?
(a) 40 (b) 39
(c) 50 (d) 72
19. 24 : 27 = ? : 81
(a) 8 (b) 62
(c) 72 (d) 82
20. 47 : 65 :: 59 : ?
(a) 95 (b) 110
(c) 106 (d) 118
21. ACEG : SUWY :: BDFH : ?
(a) TVZX (b) RTZV
(c) TVXZ (d) RTVZ
22. $\frac{M}{AC} : \frac{N}{AD} :: \frac{O}{AE} : ?$
(a) $\frac{P}{AF}$ (b) $\frac{Q}{AB}$
(c) $\frac{P}{AC}$ (d) $\frac{R}{AD}$
23. 5 : 27 :: 9 : ?
(a) 83 (b) 81
(c) 36 (d) 18
24. 6 : 11 :: 11 : ?
(a) 6 (b) 17
(c) 21 (d) 30
25. ABE : 8 :: KLO : ?
(a) 37 (b) 39
(c) 38 (d) 36
26. ADBC : EHFG :: ILJK : ?
(a) MOPN (b) MPNO
(c) ORPQ (d) MPON
27. Fox : Cunning :: Rabbit : ?
(a) Courageous (b) Dangerous
(c) Timid (d) Ferocious
28. Flexible : Rigid :: Confidence : ?
(a) Diffidence (b) Indifference
(c) Cowardice (d) Scare
29. AZCX : BYDW :: HQJO : ?
(a) GRFP (b) IPKM
(c) IPKN (d) GRJP

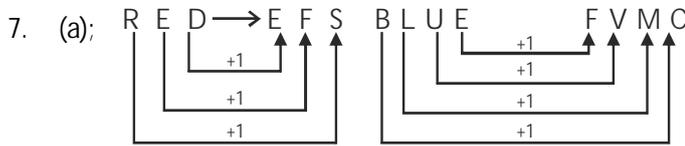
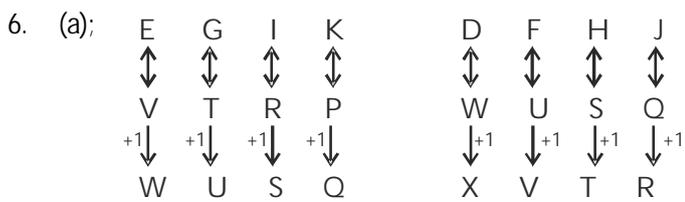


30. QIOK : MMKO :: YAWC : ?
 (a) USGA (b) UESG
 (c) VUES (d) SUEG
31. $\frac{ABC}{F} : \frac{BCD}{I} :: \frac{CDE}{L} : ?$
 (a) $\frac{DEF}{O}$ (b) $\frac{DEF}{N}$
 (c) $\frac{EDF}{O}$ (d) $\frac{DEF}{M}$
32. 1 : 8 :: 27 : ?
 (a) 37 (b) 47
 (c) 57 (d) 64
33. 1 : 6 :: 8 : ?
 (a) 11 (b) 13
 (c) 12 (d) 14
34. $N \times M : 14 \times 13 :: X \times Z : ?$
 (a) 24×23 (b) 23×24
 (c) 24×26 (d) 26×23
35. 2 : 12 :: 8 : ?
 (a) 18 (b) 128
 (c) 396 (d) 576
36. Secretive : Open :: Snide : ?
 (a) Hidden (b) Forthright
 (c) Outcome (d) Forward
37. 9 : 80 :: 100 : ?
 (a) 901 (b) 1009
 (c) 9889 (d) 9999
38. 324 : CBD :: 456 : ?
 (a) DEF (b) FED
 (c) FDE (d) EFD
39. 9 : 162 :: 8 : ?
 (a) 162 (b) 128
 (c) 96 (d) 112
40. 1224 : 1854 :: 2142 : ?
 (a) 1648 (b) 2080
 (c) 1122 (d) 981
41. IJ : LM :: PQ : ?
 (a) TU (b) VW
 (c) ST (d) US
42. QO : OQ :: AZ : ?
 (a) AZ (b) ZY
 (c) XZ (d) ZA
43. CE : XV :: MU : ?
 (a) NF (b) TE
 (c) XN (d) ZK
44. ? : JKHI :: TRUS : OMPN
 (a) GEHF (b) GEFH
 (c) LOMP (d) OPMN
45. AEJO : ZVQL :: DINS : ?
 (a) WRMH (b) WSOJ
 (c) WRNJ (d) WSNI
46. IRTH : HQSG :: ? : RQPO
 (a) QPON (b) PQPO
 (c) OPQR (d) SRQP
47. AKU : BMV :: EOY : ?
 (a) FOV (b) FPX
 (c) FPZ (d) FOZ
48. Which of the alternatives is odd
 Abandon : give up :: ? : ?
 (a) Ascent : upswing (b) Bellicose : Pacifist
 (c) Capture : Arrest (d) Deliver : Relieve
49. 'Mother' is related to 'child' in the same way as 'tree' is related to-
 (a) Plant (b) Fruit
 (c) Root (d) Flower
50. 'Captain' is related to 'Team' in the same way as 'Leader' is related to-
 (a) Chair (b) Follower
 (c) Party (d) Minister

Practice Set Solutions

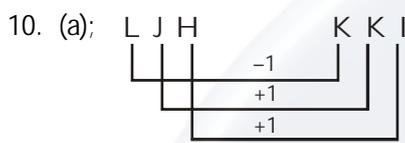
1. (d); Psychology is the study of mind, mental condition. Similarly, the scientific study of birds is called ornithology.
2. (b); 'Order' is of greater intensity than suggestion. Similarly, Snatch is of greater intensity than Take.
3. (b); Maximum and Excess are synonymous to each other. Similarly, Shy and Conservative are synonymous to each other.
4. (b); $\sqrt{169} = 13$
 Therefore,
 $\sqrt{289} = \boxed{17}$
5. (a); $(11)^2 + 1 = 122$
 $(13)^2 + 1 = 170$
 $(17)^2 + 1 = 290$
 $(19)^2 + 1 = 362$



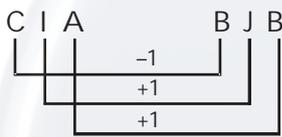


8. (b); Cloth is made from thread and mesh is made from wire.

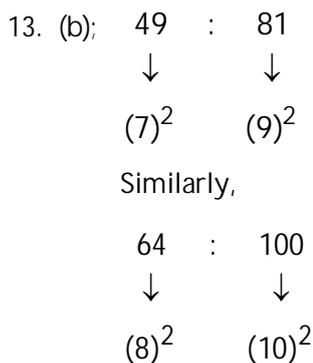
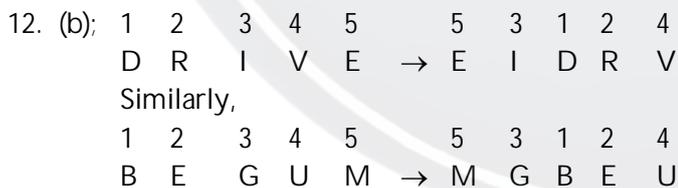
9. (b); Scissors is used to cut cloth. Similarly, axe is used to cut wood.



Similarly,

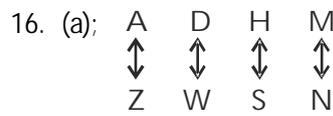


Similarly,

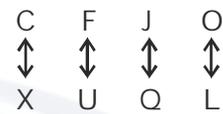


14. (a); 371 - 150 = 221
468 - 221 = 247

15. (a); 42 - 31 = 11
97 - 86 = 11



Similarly,

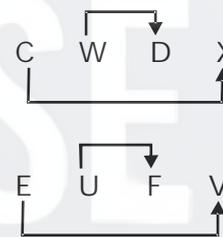


17. (c); The flow of river is controlled by constructing dam. Similarly, traffic is controlled by Signal light.

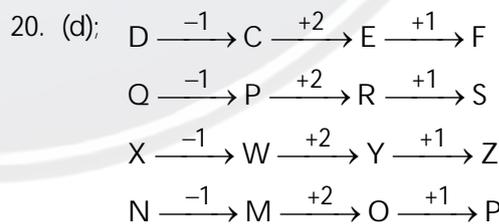
18. (a); The one who studies different varieties of birds is known as Ornithologist. Similarly, Archaeologist studies artifacts.



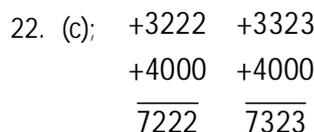
Pairs of Opposite Letters



Similarly,

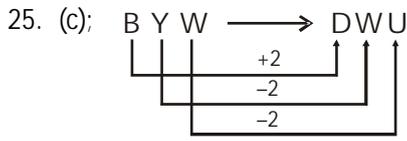


21. (b); (4)² + 1 = 17 (6)² - 1 = 35
(12)² + 1 = 145 (14)² - 1 = 195

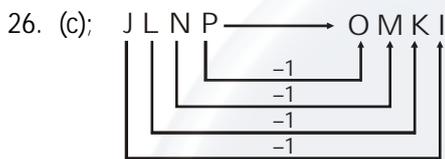
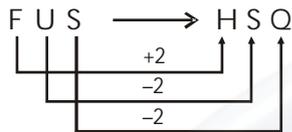


23. (d); Stethoscope is a scientific instrument which measures heartbeat. Similarly, Thermometer measures temperature.

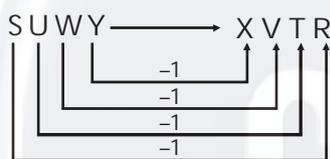
24. (a); Summer comes after spring. Similarly, Monday comes after Sunday.



Similarly,



Similarly,



27. (a); $(11)^2 + 11 = 132$
 $(21)^2 + 21 = 462$
 $(31)^2 + 31 = 992$
 $(41)^2 + 41 = 1722$

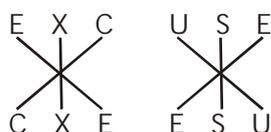
28. (b); $520 = 8 \times 8 \times 8 + 8 = 512 + 8$
 $738 = 9 \times 9 \times 9 + 9 = 729 + 9$
 $350 = 7 \times 7 \times 7 + 7 = 343 + 7$
 $\therefore ? = 6 \times 6 \times 6 + 6 = 216 + 6 = 222$

29. (c); $423 + 234 = 657$
 $534 + 234 = 768$

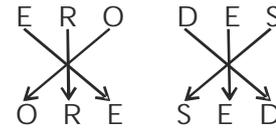
30. (d); $24 - 13 = 11$
 Similarly,
 $68 - 57 = 11$

31. (c); The early stage of frog is tadpole. Similarly, the early stage of Hare is Leveret.

32. (b); The word has been divided into two equal parts. Then, the letters have been written in reverse order in each part.



Similarly,

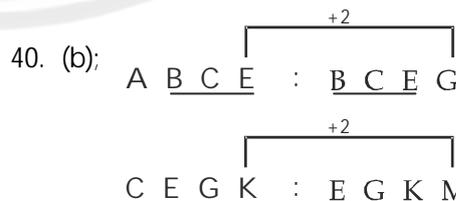
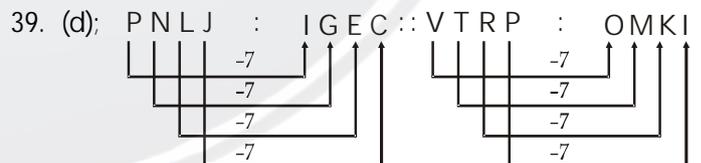
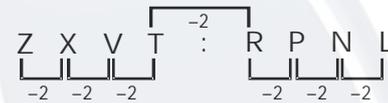
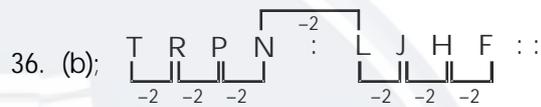


33. (d); In order to ensure security, police or defence personnel patrol the area. Similarly, to cover risk, insurance is done.

34. (c); $8 \times 3 = \frac{24}{4} = 6$

$6 \times 5 = \frac{30}{5} = 6$

35. (d); Antonym of Giant - dwarf
 Antonym of Genius - Idiot



41. (c); $16 : 36 :: 49 : 81$
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
 $4^2 \quad 6^2 \quad 7^2 \quad 9^2$

42. (b); $9 : 738 :: 7 : ?$
 $9^3 = 729 + 9 = 738$
 $7^3 = 343 + 7 = 350$

43. (b); S G H : T I J :: U K L : ?

44. (d); ABZ : BD X :: CFV : ?

45. (d); B C D E : V W X Y
 opposite letters

46. (b); tide : edit :: spit : tips
 In reverse order

47. (a); 5 : 135 :: 7 : ?
 $5^3 = 125 + 10 = 135$
 $7^3 = 343 + 10 = 353$

48. (c); Poet → writes poetry by his own imagination
 Historian → writes the history with the help of facts.

49. (c); Intelligency → is natural gift
 Creativity → is productive (made by one's own hard work)

50. (b); Triangle : Hexagon
 ↓ ↓
 3 sides : 6 sides
 ×2

Rectangle : Octagon
 ↓ ↓
 4 sides : 8 sides
 ×2

51. (d); Student have book,
 Postman have mail

52. (b); Illiteracy → is removed by education
 Drought → is removed by Rain

53. (a); $1^2 = 1 \times 1 = 1$
 $2^2 = 2 \times 2 = 4$
 $3^2 = 3 \times 3 = 9$

54. (a); A P P L E : O R A N G E
 $1 + 16 + 16 + 12 + 5 = 50$ $15 + 18 + 1 + 14 + 7 + 5 = 60$

55. (b); T S H : I R Q : Q P K : L O N

56. (d); Architect construct buildings. Similarly, Sculptor carves statue.

57. (a); M K Q O → L N P R

Similarly,

Y S U W → X V T Z

58. (c); $6 = 3 \times 2$; $5 = 3 + 2$
 $8 = 4 \times 2$; $6 = 4 + 2$

59. (d); President is the head of Union Executive of a India. Similarly, Governor is the head of State Executive.

60. (b); Mirage is an illusion caused by hot air conditions making one see something that is not there, especially the apperance of a sheet of water on a hot road or in a desert.

Rainbow is an arc of seven colours formed in the sky when the sun shines through rain.

61. (b); The letters have been written in reverse order.
 TEKCAR ⇒ RACKET
 Similarly,
 TCEJBO ⇒ OBJECT

62. (d); First three letters are consecutive letters but in reverse order and the fourth letter comes immediately after the first letter in the English alphabetical series.

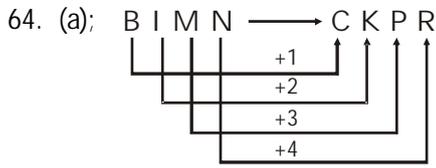
J $\xrightarrow{-1}$ I $\xrightarrow{-1}$ H $\xrightarrow{+3}$ K

P $\xrightarrow{-1}$ O $\xrightarrow{-1}$ N $\xrightarrow{+3}$ Q

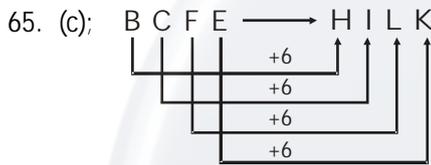
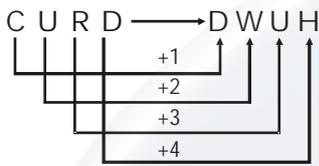
W $\xrightarrow{-1}$ V $\xrightarrow{-1}$ U $\xrightarrow{+3}$ X

M $\xrightarrow{-1}$ L $\xrightarrow{-1}$ K $\xrightarrow{+3}$ N

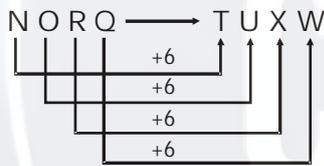
63. (d); $UU \xrightarrow{+2} W \xrightarrow{+1} X$
 $WW \xrightarrow{+2} Y \xrightarrow{+1} Z$
 $OO \xrightarrow{+2} Q \xrightarrow{+1} R$
 $QQ \xrightarrow{+2} S \xrightarrow{+1} T$



Similarly,



Similarly,



66. (c); $0 + 8 = 2 + 6$
 $1 + 8 = 6 + 3$

67. (b); $7 + 2 = 9; 5 + 3 = 8$
 $9 - 8 = 1$
 $6 + 4 = 10; 5 + 4 = 9$
 $10 - 9 = 1$

68. (a); $a * b = a^b$
 $\therefore 5 * 3 = 5^3 = 5 \times 5 \times 5 = 125$

69. (c); The body of fish remains covered with scales externally. Similarly, the body of bear remains covered with fur.

70. (b); Here, Worker-Tool relationship has been shown. Writer uses pen for writing. Similarly, artist uses bursh.

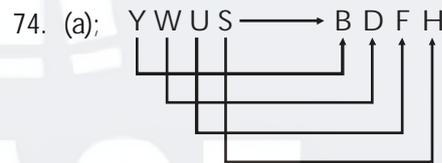
71. (c); Procession proceeds on a certain route. Similarly, Earth revolves round the sun in its orbit.

72. (c); Fertiliser is used for improving crop yield. Similarly, tonic makes body healthy.

73. (b); $L \Rightarrow KM; L \xrightarrow{-1} K; L \xrightarrow{+1} M$
 $O \Rightarrow NP; O \xrightarrow{-1} N; O \xrightarrow{+1} P$
 $C \Rightarrow BD; C \xrightarrow{-1} B; C \xrightarrow{+1} D$
 $K \Rightarrow JL; K \xrightarrow{-1} J; K \xrightarrow{+1} L$
 $E \Rightarrow DF; E \xrightarrow{-1} D; E \xrightarrow{+1} F$
 $R \Rightarrow QS; R \xrightarrow{-1} Q; R \xrightarrow{+1} S$

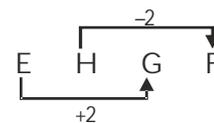
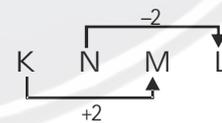
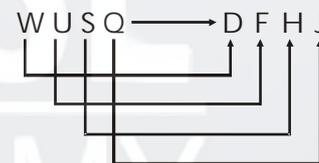
Similarly,

$L = L \xrightarrow{-1} K; L \xrightarrow{+1} M$
 $E \Rightarrow E \xrightarrow{-1} D; E \xrightarrow{+1} F$
 $F = F \xrightarrow{-1} E; F \xrightarrow{+1} G$
 $T \Rightarrow T \xrightarrow{-1} S; T \xrightarrow{+1} U$

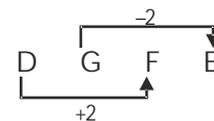


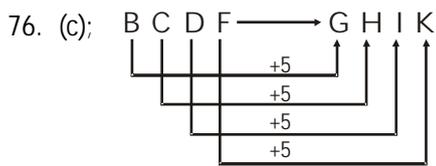
Pairs of Opposite Letters

Similarly,

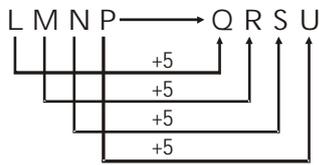


Similarly,





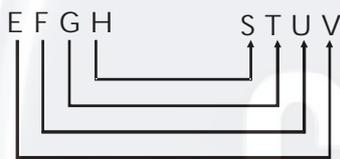
Similarly,



77. (c): $I \Rightarrow 9$; $C \Rightarrow 3$; $9 - 3 = 6$
 Similarly, $D \Rightarrow 4$; $P \Rightarrow 16$;
 $16 - 4 = 12$



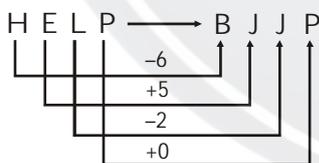
Pairs of Opposite Letters.
 Similarly,



79. (b): $8 - 3 = 5$; $(5)^2 = 25$
 Similarly, $9 - 2 = 7$; $(7)^2 = 49$

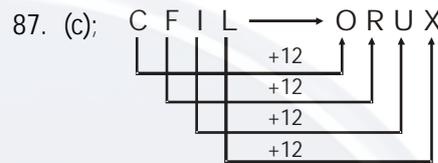
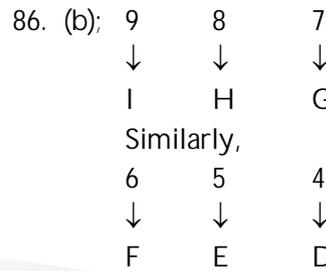


Similarly,

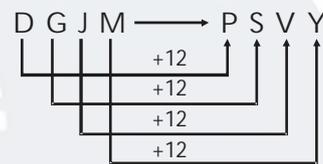


84. (b): The resting place of pig is called Sty. Similarly, the resting place of cow is called Byre.

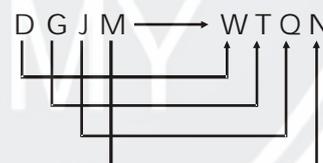
85. (d): $5^2 - 1 = 24$; $5^3 + 1 = 126$
 $7^2 - 1 = 48$; $7^3 + 1 = 344$



Similarly,



Pairs of Opposite Letters.
 Similarly,



89. (c): $24 \times 2.5 = 60$

$120 \times 2.5 = 300$

90. (c): $14 \times 14 \times 2 = 392$

$14 \times 2 = 28$

Similarly,

$19 \times 19 \times 2 = 722$

$19 \times 2 = 38$

91. (d): $1 + 2 + 3 = 6$; $(6)^2 = 36$

$2 + 2 + 1 = 5$; $(5)^2 = 25$

92. (b): Ass is considered as Timid. Fox is considered as Cunning.

93. (d): Ecstasy is opposite of Gloom. Similarly, Humiliation is opposite of Exaltation.

Distinct Solutions

81. (c): $(9 \times 9) - 1 = 81 - 1 = 80$
 $(9 \times 9 \times 9) + 1 = 729 + 1 = 730$

Similarly,

$(7 \times 7) - 1 = 49 - 1 = 48$

$(7 \times 7 \times 7) + 1 = 343 + 1 = 344$

82. (c): $130 + 24 = 154$

$178 + 24 = 202$

83. (a): $(60 \div 10) \times 6 = 36$

$(100 \div 10) \times 10 = 100$

94. (d);

1	2	3	4	5	6	7
N	U	M	E	R	A	L

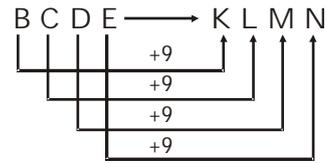
It has been arranged as

2	4	6	7	5	3	1
U	E	A	L	R	M	N

Therefore,

1	2	3	4	5	6	7
A	L	G	E	B	R	A
2	4	6	7	5	3	1
L	E	R	A	B	G	A

Similarly,

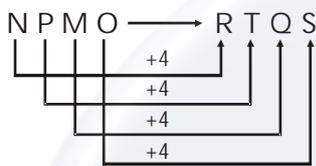


95. (d);

B D A C → F H E G

Arrows show: B→F (+4), D→H (+4), A→E (+4), C→G (+4)

Similarly,



96. (b);

F G H I → O P Q R

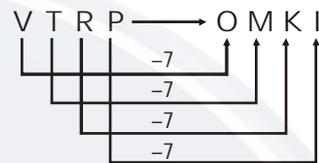
Arrows show: F→O (+9), G→P (+9), H→Q (+9), I→R (+9)

97. (a);

P N L J → I G E C

Arrows show: P→I (-7), N→G (-7), L→E (-7), J→C (-7)

Similarly,



98. (b); $17 \times 3 + 9 = 51 + 9 = 60$

Similarly, $20 \times 3 + 9 = 60 + 9 = 69$

99. (b); $(6 + 2)^2 = (8)^2 = 64$

Similarly, $(11 + 2)^2 = (13)^2 = 169$

100. (d); $123 \Rightarrow 12 / 3 = 4$

Similarly, $726 \Rightarrow 72 / 6 = 12$

Previous Year Solutions

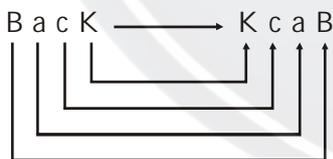
1. (c);

X g m E → E m g X

Arrows show: X→E, g→m, m→g, E→X

The letters have been written in reverse order.

Therefore,



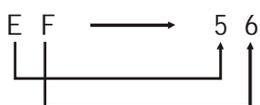
2. (c);

G H → 7 8

Arrows show: G→7, H→8

The position numbers of letters in English alphabet.

Therefore,



3. (a); The letters have been written in reverse order.

C E D H → H D E C

Therefore,

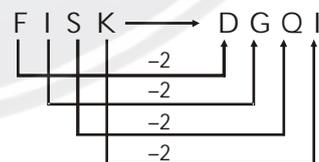
P N R V → V R N P

4. (c);

P Z Q W → N X O U

Arrows show: P→N (-2), Z→X (-2), Q→O (-2), W→U (-2)

Therefore,



5. (a); Light wards off Darkness. Similarly, Knowledge wards off Ignorance.

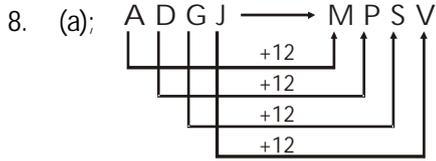
6. (b); Scissors are used to cut cloth. Similarly, Razor is used to shave the beard.

7. (c);

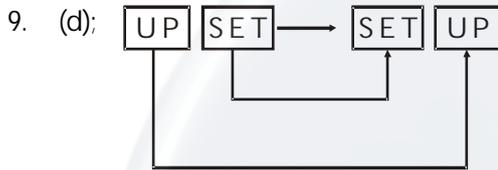
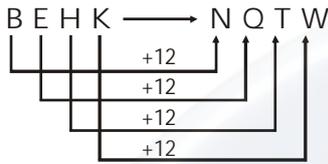
K M L → N P O

Arrows show: K→N (+3), M→P (+3), L→O (+3)

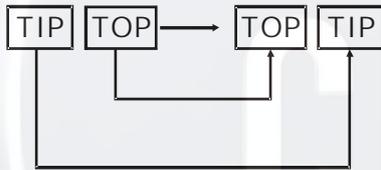
Similarly,



Therefore,



Similarly,



10. (a); $4 \times 5 = 20 : 5 \times 6 = 30$

Similarly,

$7 \times 8 = 56 ; 8 \times 9 = 72$

11. (a); $342 + 111 = 453$

Similarly,

$831 + 111 = 942$

12. (c); $5^2 + 5 = 30$ $5^3 + 5 = 130$

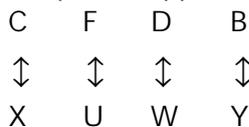
$6^2 + 6 = 42$ $6^3 + 6 = 222$

13. (b); A person cries in the state of sorrow. Similarly, one laughs in the state of mirth.

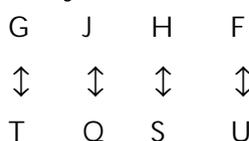
14. (c); Love is antonym of Hate. Similarly, Proud is antonym of Humble.

15. (b); $(3)^3 + 3 = 30$ $(5)^3 + 5 = 130$

16. (c); The pairs of opposite letters have been given:



Similarly,



17. (a); B O R E
 ↓ ↓ ↓ ↓
 $2 + 15 + 18 + 5 = 40$
 $40 \div 4 = 10$

H O T E L
 ↓ ↓ ↓ ↓ ↓
 $8 + 15 + 20 + 5 + 12 = 60$
 $60 \div 5 = 12$

18. (b); $(2)^2 + 3 = 4 + 3 = 7$

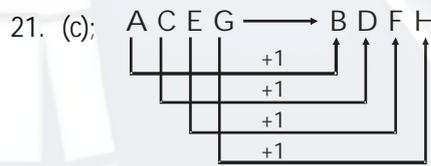
Similarly,

$(6)^2 + 3 = 36 + 3 = 39$

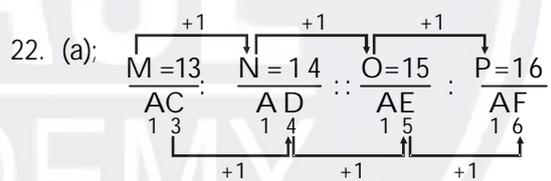
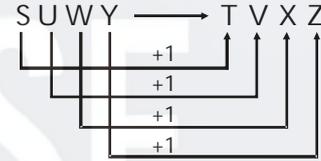
19. (c); $\frac{24}{27} = \frac{8}{9} = \frac{72}{81}$

20. (a); $4 + 7 = 6 + 5 = 11$

$5 + 9 = 9 + 5 = 14$



Similarly,



23. (a); $5 \times 5 + 2 = 27$

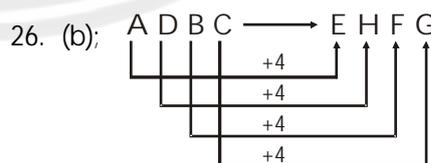
Similarly, $9 \times 9 + 2 = 83$

24. (c); $6 \times 2 - 1 = 11$

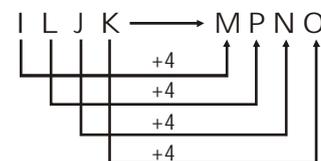
Similarly, $11 \times 2 - 1 = 21$

25. (c); $A + B + E \Rightarrow 1 + 2 + 5 = 8$

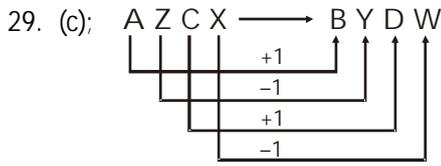
Similarly, $K + L + O \Rightarrow 11 + 12 + 15 = 38$



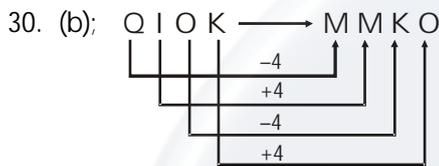
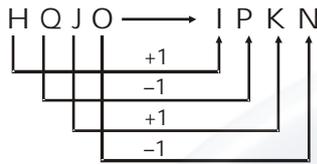
Similarly,



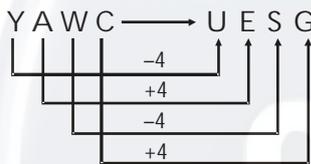
27. (c); Here animal-behaviour relationship has been shown. Fox is characterised by its cunningness. Similarly, rabbit is considered as timid.
 28. (a); Flexible is antonym of Rigid. Similarly, Confidence is antonym of Diffidence.



Similarly,



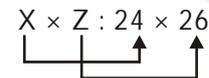
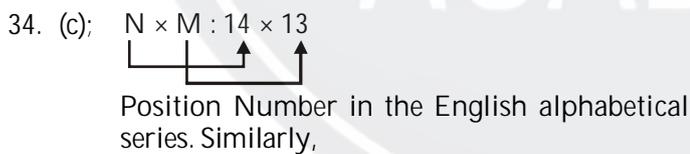
Similarly,



31. (a); $\frac{ABC}{F} : \frac{BCD}{I} :: \frac{CDE}{L} : \frac{DEF}{O} \Rightarrow$
 $\frac{1+2+3}{6} : \frac{2+3+4}{9} :: \frac{3+4+5}{12} : \frac{4+5+6}{15}$

32. (d); $(1)^3 = 1 : (2)^3 = 8$
 $(3)^3 = 27 : (4)^3 = 64$

33. (b); $1 + 5 = 6$
 $8 + 5 = 13$



35. (a); $2 : 12 :: 8 : 18$

36. (b); Secretive : open :: snide : Forthright

37. (d); $(9)^2 = 81 - 1 = 80$
 $(100)^2 = 10000 - 1 = 9999$

38. (a); As 'C' is the third letter in English alphabet, 'B' second letter and 'D' fourth letter similarly
 $D \rightarrow 4 \quad E \rightarrow 5 \quad F \rightarrow 6$

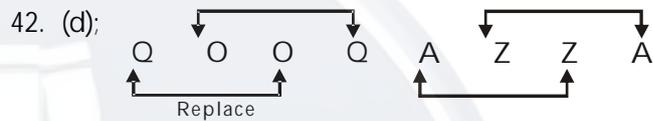
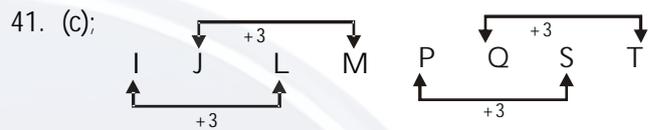
39. (b); $(9)^2 = 81 \times 2 = 162$
 $(8)^2 = 64 \times 2 = 128$

40. (a); In option (a) first part of Question the first two digits are doubled and IInd Part of question the first two digit are thriced.

As :- $12 \times 2 = 24 \rightarrow 1224$
 $18 \times 3 = 54 \rightarrow 1854$

Similarly:-

$21 \times 2 = 42 \rightarrow 2142$
 $16 \times 3 = 48 \rightarrow 1648$



43. (a); In English alphabet order C and X are both 3rd place from right and left, 'E' and 'V' are both 5th place from right and left.
 Similarity : - MU \rightarrow NF

44. (d); $T \xrightarrow{-5} O \quad O \xrightarrow{-5} J$
 $R \xrightarrow{-5} M \quad P \xrightarrow{-5} K$
 $U \xrightarrow{-5} P \quad M \xrightarrow{-5} H$
 $S \xrightarrow{-5} N \quad N \xrightarrow{-5} I$

45. (a); Opposite letters

46. (d); $I \xrightarrow{-1} H \quad S \xrightarrow{-1} R$
 $R \xrightarrow{-1} Q \quad R \xrightarrow{-1} Q$
 $T \xrightarrow{-1} S \quad Q \xrightarrow{-1} P$
 $H \xrightarrow{-1} G \quad P \xrightarrow{-1} O$

47. (d); $A \xrightarrow{+1} B \quad E \xrightarrow{+1} F$
 $K \xrightarrow{+2} M \quad O \xrightarrow{+2} Q$
 $U \xrightarrow{+1} V \quad Y \xrightarrow{+1} Z$

48. (b); All except 'option b' are synonyms but 'option b' is Antonyms.

49. (a); As mother is related to child similarly 'tree' is related to 'plant'

50. (b); As 'captain' provides leadership to his team in the same way 'leader' provides leadership to his followers.

