Coding and Decoding

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Placement for All.. All for Placement

This Video Completely covers the problems on" Coding Decoding & Alphabetical Series" which is more than sufficient for all kind of placement Exams eg: TCS/WIPRO/AMCAT/ELITMUS/CoCubes and all other placement Exams.

Coding Decoding & Alphabetical Series & Analogy
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Coding Decoding and Alphabetical series

There are 26 alphabets in English.

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13

Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

E = 5(position)

J = 10

O = 15

T = 20

Y = 25   N = 14 (14th November) T = 20 (T -20 match)

Coding Decoding and Alphabetical series

Q1) From the given alternatives, select the world which can not be formed using the letter of given word.

GOVERNMENT

1. GOT 2. OVER 3. NEED 4. NORM

GOVERNMENT

Coding Decoding and Alphabetical series

Q2 In a certain code "FRIED" is written as "EQHDC". How is "RUSTY" written in that code language?

1. PAXYZ 2. QTRSX 3. PARSX 4. NQVSZ

Coding Décoding and Alphabetical series

Q3. In a certain code language, CALCUTTA is written as ACCLTUAT, then how will you write KARNATAK in the language?

a. AKRNTAAK b. AKNRTAKA c. AKNRATAK d. NATKAKAR

Solution:

Coding Decoding and Alphabetical series

Q4.

In a certain code, MONKEY is written as XDJMNL. How is TIGER written in that code?

A) SHFDQ   B) HFDSQ

C) RSAFD   D) QDFHS

Solution:

Coding Decoding and Alphabetical series

Q5. In a certain code language COMPUTER is written as RFUVQNPC. How will MEDICINE be written in that code language?

A) MFEDJJOE   B) EOJDEJFM

C) MFEJDJOED)   EOJDJEFM

Solution:

.

COMPUTER
RFUVQNPC

MEDICINE
EOJDJEFM

E+1= F
O+1 = P
M+1= N
T+1=U

G +1= F
N+1= O
D+1= E
I +1= J

Coding Decoding and alphabetical series

Q6. If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH?

A) 246173   B) 214673

C) 214763   D) 216473

ROSE
6 8 2 1

CHAIR
73456

SEARCH
2 1 4 6 7 3

PREACH
9 6 1 4 7 3

Coding Decoding and Alphabetical series

Q7. In a certain code, BLEND is written as ENHPG. How is WINNER written in the same language?

A. ZKQPHT   B.ZKQPHU   C.YKQPHT   D.ZKOPHT

+3 (BLEND
     ENHPG)

WINNER
ZKQPHT

A B C D E F G H I J K L M N O P Q R S
T U V W X Y Z

Coding Decoding and Alphabetical series

Q8 Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter cluster.

GATE : HXYX :: SINK : _____ ?

1. TGSE   2.TETD   3.TESD   4.TFSD

$$G \xrightarrow{+1} A \xrightarrow{-3} T \xrightarrow{+5} E \xrightarrow{-7}$$
$$H \quad X \quad Y \quad X$$

$$S \xrightarrow{+1} I \xrightarrow{-3} N \xrightarrow{+5} K \xrightarrow{-7}$$
$$T \quad F \quad S \quad D$$

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
(+5 ... +5)

Coding Decoding and Alphabetical series

Q9 If V=44 and FAT=54, then how will you code LATE?

1. 76   2.110   3.54   4.19

(76)

√ V = 44
$$21 \times 2 = 44$$

[hints:]

A, B, C, D, E, F, G, H, I, J, K, L, M,
1 2 3 4 5 6 7 8 9 10 11 12 13

Z, Y, X, W, V, U, T, S, R, Q, P, O, N
26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

FAT = 54
↓ ↓ ↓
$$6+1+20 = 27 \times 2 = 54$$

LATE
↓
$$(12+1+20+5) = 38 \times 2 = \boxed{76}$$

Coding Decoding and Alphabetical series

Q10. If FINGER is coded as 15232112239 and MARKET is coded as 14192916252, then how will MILTON be coded as

1. 22213235295   2.22122353295   3.2222213355   4.21223239525

[very good]

22213235295

A, B, C, D, E, F, G, H, I, J, K, L, M,
1 2 3 4 5 6 7 8 9 10 11 12 13

Z, Y, X, W, V, U, T, S, R, Q, P, O, N
26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

(F I N G E R)
(6 9 14 7 5 18)

[1 5 23 21 12 239]

F+I = 6+9 = 15   R = 18
I+N = 9+14 = 23   1+8 = 9
N+G = 14+7 = 21
G+E = 7+5 = 12
E+R = 5+18 = 23

(M I L T O N)
(13 9 12 20 15 14)

M+I = 13+9 = 22
I+L = 9+12 = 21
L+T = 12+20 = 32
T+O = 20+15 = 35
O+N = 15+14 = 29
N = 14 = 1+14 = 5

Coding Decoding and Alphabetical series

Q11. In a code language, LOGITECH is written as CFCEBAYD. How will INFORMATON be written as in that language?

1. EEBFIDBWFEE   2. EBEDIFBWFEE   3. EEBFIDWBEFE   4. EBEFDIWBEFE

V.9

$$L = 12 = 1+2 = 3 = C \checkmark \qquad 9-4 = 5$$
$$O = 15 = 1+5 = 6 = F \qquad T = 20 = 2+0 = 2$$
$$G = 7 = 7-4 = 3 = C \checkmark$$

```
L O G I T E C H   Q
↓ ↓ ↓ ↓ ↓ ↓     ↓
C F C E BA Y   D
```

A,	B,	C,]	D,	E,	F,	G,	H,	I,	J,	K,	L,	M,
1	2	3]	4	5	6	7	8	9]	10	11	12	13

```
I N F O R M A T I O N
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
E E B E I D W B E F E
```

Z,	Y,	X,	W,	V,	U,	T,	S,	R,	Q,	P,	O,	N
26,	25,	24,	23,	22,	21,	20,	19,	18,	17,	16,	15,	14

$$I = 9 = 9-4 = 5(E) \qquad F = 6-4 = 2(B) \qquad M = 13 = 1+3 = 4(D)$$
$$N = 14 = 1+4 = 5(E) \qquad R = 1+8 = 9(I) \qquad A-4 = W \qquad T = 2+0 = 2(B)$$

Coding Decoding and Alphabetical series

Q12. Which of the following terms follows the trend of the given list?

ABABABAB, CDABABAB, ADCBABAB, ABCDABAB, ABADCBAB

1. ABABADCB   2. ABABCDAB   3. ABABABAB   4. CDABABAB


```
AB AB AB AB        C D AB AB AB        A DC B AB AB
  ⇓
  CD

    AB CD AB AB      AB A DC B AB      ABABCDAB ✓
```

Coding Decoding and Alphabetical series

Q13. If Z = 52 and ACT = 48, then BAT will be equal to

A) 39   B) 41

C) 44   D) 46

Solution:

$$Z = 52 \quad (26 \times 2 = 52)$$
$$ACT = 48 \quad (1 \times 2 + 3 \times 2 + 20 \times 2)$$
$$= 2+6+40 = 48$$

$$BAT$$

```
B   A   T
↓   ↓   ↓
(2×2)+(1×2)+(20×2)
```
$$4+2+40 = 46$$

A,	B,	C,	D,	E,	F,	G,	H,	I,	J,	K,	L,	M,
1	2	3	4	5	6	7	8	9	10	11	12	13

Z,	Y,	X,	W,	V,	U,	T,	S,	R,	Q,	P,	O,	N
26,	25,	24,	23,	22,	21,	20,	19,	18,	17,	16,	15,	14

Coding Decoding and Alphabetical series

Q14 If 'A' is coded as 1, 'B' as 3, 'C' as 5 and so on, which of the following is the numerical value of the word 'FAZED' ?

(A) 81
(B) 79
(C) 77
(D) 80
(E) None of these

$$A = 1, \quad B = 3, C = 5, \cdots$$

FAZED

$$= \underline{11} + 1 + 51 + 9 + 7$$

$$= 28 + 51 = \boxed{79}$$

1	3	5	7	9	11	13	15	17	19	21	23	25
A,	B,	C,	D,	E,	F,	G,	H,	I,	J,	K,	L,	M,
1	2	3	4	5	6	7	8	9	10	11	12	13
Z,	Y,	X,	W,	V,	U,	T,	S,	R,	Q,	P,	O,	N
26,	25,	24,	23,	22,	21,	20,	19,	18,	17,	16,	15,	14
51	49	47	45	43	41	39	37	35	33	31	29	27

Coding Decoding and Alphabetical series

Q15. In a code language, PERMUTATION is written as IBKFRMXMFLG. How will PUBLICSECTOR be written as in that language?

1. ICUFEVLBVNLK 2.ICUFEVLBVMLJ 3.IRUEFVLBVMLK 4.IRVEFVLBVMLK

$$(-7, -3, -7, -3)$$

$$-7, -7, -7, -7, -3, -3, -3$$

$$-7 \begin{pmatrix} P E R M U T A T I O N \\ I B K F R M X M F L G \end{pmatrix}$$

A,	B,	C,	D,	E,	F,	G,	H,	I,	J,	K,	L,	M,
1	2	3	4	5	6	7	8	9	10	11	12	13
Z,	Y,	X,	W,	V,	U,	T,	S,	R,	Q,	P,	O,	N
26,	25,	24,	23,	22,	21,	20,	19,	18,	17,	16,	15,	14

$$\text{PUBLIC SECTOR}$$

$$-7 (-3, -7, -7, -3, -0)$$

$$\text{I R U E R}$$

Coding Decoding and Alphabetical series

Q16. Three of the following four letters-clusters are alike in a certain way and one is different. Pick the odd one out?

1. GSVE 2.LOPK 3.CXGT 4.MNQJ

1. GSVE X X

2. LOPK ✓

A,	B,	C,	D,	E,	F,	G,	H,	I,	J,	K,	L,	M,
1	2	3	4	5	6	7	8	9	10	11	12	13
Z,	Y,	X,	W,	V,	U,	T,	S,	R,	Q,	P,	O,	N
26,	25,	24,	23,	22,	21,	20,	19,	18,	17,	16,	15,	14

3. CXGT ✓

4. MNQJ

Coding Decoding and Alphabetical series

Q17. If MASTER is coded as 26138402536 and GOVIND is coded as 142254481288, then how will BACKSPACE be coded as?

1. 4162238321625   2. 5172339317125   3. 4172393337125   4. 5172933373215

$E = 5^2 = 25$
$R = 18 \times 2 = 36$

$M = 13 \times 2 = 26$ ✓
$A = 1^2 = 1$
$S = 19 \times 2 = 38$
$T = 20 \times 2 = 40$

MASTER
26 1 38 40 25 36

A	B	C	D	E	F	G	H	I	J	K	L	M,
1	2	3	4	5	6	7	8	9	10	11	12	13
Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

4 1 6 22 38 32 1625

BACK SPACE

$B = 2 \times 2 = 4$
$A = 1^2 = 1$
$C = 3 \times 2 = 6$

$K = 11 \times 2 = 22$
$S = 19 \times 2 = 38$
$P = 16 \times 2 = 32$
$A = 1^2 = 1$
$C = 6$
$E = 25$

Coding Decoding and alphabetical series

Q18. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter cluster.

LENOVO : EKISSQ :: FINGER : _____

1. YOIJBT   2. YOIKBT   3. YNIKBT   4. YOIKCT

L E N O V O
-7, +6, -5, +1, -3, +2
E K I S S Q

A	B	C	D	E	F	G	H	I	J	K	L	M,
1	2	3	4	5	6	7	8	9	10	11	12	13
Z	Y	X	W	V	U	T	S	R	Q	P	O	N,
26	25	24	23	22	21	20	19	18	17	16	15	14

F I N G E R
-7, +6, -5, +1, -3, +2
Y O I K B T

Coding Decoding and alphabetical series

Q19. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter cluster.

BANK: WXLJ :: IDOL : _____

1. DAKM   2. ADMK   3. DAMJ   4. DAMK

B A N K
-5, -3, -2, -1
W X L J

A	B	C	D	E	F	G	H	I	J	K	L	M,
1	2	3	4	5	6	7	8	9	10	11	12	13
Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

I D O L
-5, -3, -2, -1
D A M K

Coding Decoding and alphabetical series

Q20 In a certain code language,

(A) 'pit na som' means 'bring me water'

(B) 'na jo tod' means 'water is life'

(C) 'tub od pit' means 'give me toy'

(D) 'jo lin kot' means 'life and death'

Which of the following represents 'is' in that language ?

A) jo   B) na

C) tod   D) lin

water : na ✓

life : JO ✓

Code of is = tod

Coding Decoding and alphabetical series

Q21. How many such pairs of letters are there in the word **TERMINATE** each of which has as many letters between them in the word as in the English alphabet ??

(a) None   (b)One   (c)Two   (d)Three   (e) More than three   [Placement]

Solution:

EI ✓

RT ✓

T E R M I N A T E

← End

T U V W X Y Z

begining

Coding Decoding and alphabetical series

Q22 How many pairs of letters are there in the word " CASTRAPHONE" which have as many letters between them in the word as in the alphabet?

A) 3   B) 4

C) 5   D) 6

begining

End

E-1 (EH)

N-2 (NONT, NT)

0-1 (OT)

P-1 (PR)

C A S T R A P H O N E

C - 0
A - 0
S - 1
T - 0
R - 0
A - 0
P - 0
H - 0
0 - 0
N - 0

Total No of pairs = ST, EH, NO, NT, OT, PR

Coding Decoding and alphabetical series

Q23. If 'blue' means 'green', 'green' means 'yellow', 'yellow' means 'orange', 'orange' means 'black', 'black' means 'white', white' means 'red', 'red' means 'pink', 'pink' means 'brown', 'brown' means 'grey', then what is the color of human blood?

a. Black   b. Red   c. White   d. Orange   e. None of these

colour Of human blood = (Red)

Coding Decoding and alphabetical series

Q24. If 'grey' means 'yellow'; 'yellow' means 'white'; 'white' means 'blue'; 'blue' means 'red'; 'red' means 'black'; and 'black' means 'violet'; then what is the colour of clear sky?

1) red
2) white
3) violet
4) black
5) yellow

Clear sky ⇒ (Blue)

(white) ✓

(Red) ✗

Coding Decoding and alphabetical series

Q25. If 'P' denotes '×'; 'R' denotes '÷' 'M' denotes '−' and 'W' denotes '+', then—

20 R 5 W 12 M 3 P 4 = ?

P — ×
R — ÷
M — −
W — +

BODMAS

20 R 5 W 12 M 3 P 4

$20 \div 5 + 12 - 3 \times 4$

$4 + 12 - 12$

$16 - 12 = 4$

Coding Decoding and alphabetical series,

Q26-30. Read the following character sequence carefully and then answer the question given below it.

G > Z J L 2 ! D - M # 8 C % B < K 1 & A W / P E + Q @ 7 F 6

Q26. How many such symbols are there in the above sequence, each of which is immediately followed by a perfect cube of a number?

(a) None
(b) One
(c) Two
(d) Four
(e) None of these

@ > <

Preceded ← (×) → Followed
(Left)   (Right)

Symbol Cube
① # 8

Q26-30.Read the following character sequence carefully and then answer the question given below it.

→ L   ↓   ← R

G > Z J L 2 ! D - M # 8 C % B < K 1 & A W / P E + Q @ 7 F 6

Q27. Which of the following element is _fifth_ to the left of sixteenth element from the left?

(a) %

(b) C

(c) M

(d) #

(e) None of these

√ Trick   left - left } same → sub
      Right - Right

Left - Left
16 - 5 = 11th   3rd / left   Left - Right] diff = add

Q28. If all the numbers are dropped in the given series, then which element will be at sixth position from right end?

(a) M

(b) A

(c) B

(d) /

(e) None of these (P)

Q29. If the first fifteen elements in the above sequence are written _in reverse order_, then which of the following element will be twenty-first from the right end?

(a) 2

(b) !

(c) P

(d) L

(e) None of these

21St

B ·/. C 8 # M - D ! ② L J Z > G < K 1 & A W / P E +
         Q @ 7 F 6

Save your

Coding Decoding and alphabetical series

Q26-30.Read the following character sequence carefully and then answer the question given below it.

G > Z J L 2 ! D - M # 8 C % B < K 1 & A W / P E + Q @ 7 F 6

Q30. How many such numbers are there in the above sequence, each of which is immediately followed by a symbol and immediately preceded by a number?
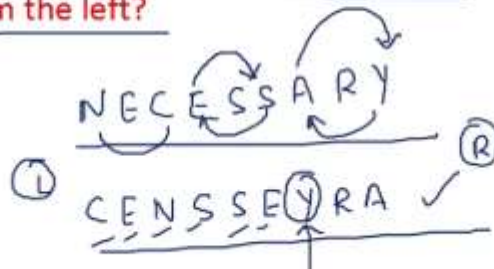
(a) None

(b) One

(c) Two

(d) Four

(e) None of these

Number   Number   Symbol

Left   Right

2

Coding Decoding and alphabetical series

Q31. If the first and third letters in the word NECESSARY were interchanged, also the fourth and the sixth letters, and the seventh and the ninth letters, which of the following would be the seventh letter from the left?

a.A
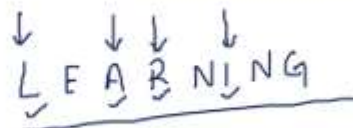
b.Y

c.R

d.E

e.S

NECESSARY

CENSSEYRA

Coding Decoding and alphabetical series

Q32. If it is possible to make only one meaningful word with the first, the third, the fourth and the sixth letters of the word LEARNING, using each only once, which of the following will be the third letter of that word? If more than one such word can be formed, give 'Y' as the answer and if no such word can be formed, give 'Z' as the answer.

(a) I (b) R (c) A (d) Y (e) Z

Solution:

LEARNING

LARI

① RAIL

② LIAR

Coding Decoding and alphabetical series

Directions (33-37): Answer these questions referring to the letter sequence given below:

I X Y A N O F M P B L Q R D S T W C K G U V E J Z H

→K → R   ←R   ←L

Q33. If the letters of the above given series are written in reverse order, which letter will be the third to the left of eighteenth letter from your right?
(a) O (b) U (c) V (d) N (e) None of these

Trick   left | Right ⇒ (add) $3 + 18 = 21$ (Right)

H Z J E V × (waqte)

Coding Decoding and alphabetical series

Directions (33-37): Answer these questions referring to the letter sequence given below:

I X Y A N O F M P B L Q R D S T W C K G U V E J Z H

Q34. What will come in place of question mark (?) in the following series?
XAO FPL QDT __?__ WKU
(a) LJM (b) LJE (c) WKG (d) WKU (e) None of these

X A O   F P L   Q D T   (WKU)

Coding Decoding and alphabetical series

Directions (33-37): Answer these questions referring to the letter sequence given below:

I X Y A N O F M P B L Q R D S T W C K G U V E J Z H

→L   ↑   ←R

Q35. Which of the following is the sixth to the right of the thirteenth letter from your right?
(a) K (b) F (c) M (d) G (e) None of these

Same = Sub

13-6 $(13 - 6) = 7^{th}$ Right

Coding Decoding and alphabetical series

Directions (33-37): Answer these questions referring to the letter sequence given below:

E B R A F H M E I D O U K U W M Z A P K Q A E T

↑   ↑

Q36. How many such vowels are there in the above arrangement, each of which is immediately preceded by a consonant and immediately followed by a vowel?
(a) None (b) One (c) Two (d) Three (e) More than three

1. MEI
2. DOU
3. QAE

C   V   V
followed
Right ✓

C
preceded
left ✓

Coding Decoding and alphabetical series

Directions (33-37): Answer these questions referring to the letter sequence given below:

E B R A F H M E I D O U K U W M Z A P K Q A E T

Q37. How many such consonants are there in the above arrangement each of which is immediately preceded by a vowel?

(a) None (b) Seven (c) Six (d) Eight (e) None of these

Seven

V C

1. E B
2. A F
3. I D
4. U K
5. U W
6. A P
7. E T

Coding Decoding and alphabetical series

Directions (38-40): The following questions are based on the five three letter words given below.

FAN HOP GET CUB MID ✓

(Note: The words formed after performing the given operations may or may not be meaningful English words.)

Q38. If the positions of the first and second letters of all the words are interchanged, how many words will form meaningful English words?

(a) None (b) Three (c) One (d) Two (e) More than three

FAN   HOP   GET   CUB   MID
AFN   OHP   EGT   UCB   IMD

Coding Decoding and alphabetical series

Q39. If all the letters in each of the words are arranged alphabetically (within the word), how many words will remain unchanged?

(a) Two (b) Three (c) One (d) None (e) More than three

→   FAN   HOP   GET   CUB   MID
    AFN   HOP   EGT   BCU   DIM

Directions (38-40): The following questions are based on the five three letter words given below.

FAN HOP GET CUB MID

(Note: The words formed after performing the given operations may or may not be meaningful English words.)

Q40. If the first of all the words is changed to the next letter of the English alphabetical series, how many words will have more than one vowel? (Same or different vowel) (a) None (b) Three (c) Two (d) More (e) One

```
FAN    HOP   GET   CUB   MID
GAN   (IOP)  HET   DUB   NID
 ✗            ✗    ✗     ✗
```

Analogies:

Analogy Definition

Let us first try to define analogy: the word 'Analogy' means 'correspondence'. In analogy questions, a specific relationship is given & another similar relationship has to be identified from the given options.

Types of Analogies

In reasoning, generally we come across two types of analogies: Alphabet analogy and Numbers analogy.

Number Analogy covers two types of questions:

I. Choose a similar pair as the given pair in the question on the basis of the relation between the numbers pair given in the question.

II. Choose a number that is similar to a group of numbers on the basis of certain similar properties that they possess.

Analogies:

Example: Find a pair that is similar to the given pair of numbers:- 180:90

(a) 64 : 37 ✗ 2:1

(b) 2 : 1

(c) 23 : 10 ✗ 2:1

(d) 137 : 112 ✗ 2:1

```
180:90 ✓
 2:1
```

Alphabet Analogy: In this type of analogy, two groups of letters related to each other in same way, are given. The candidate is required to identify the relationship & choose a group of letters which is related in the same way to a 3rd group given in the question. These questions become easier to solve if you memorize the alphabetic positions of the letters in the alphabet. (eg: A=1, M=13, etc.)

Analogies:

Example: BCDE: PQRS :: WXYZ : ?

(a) EFGH

(b) KLMN

(c) QJSP

(d) TSUV

KLMN

A B C D E F G H I J K L M N O P Q R T U V W X Y Z.

Hints : shifted by 14 letters.

Analogies:

Q1. Flow : River :: Stagnant : ?   pool

A. Rain

B. Stream

C. Pool

D. Canal

Stagnant = Constant

Q2. Architect : Building :: Sculptor : ?   statue

A. Museum

B. Stone

C. Chisel

D. Statue

[Relate]

Analogies:

Q3. Adequate : Enough :: Veracity : ?

Antagonist   Synonyms   Synonyms

Animate

Little

Truth

None of these

Veracity
truth

$3 \times 3 \times 3 \times 3$

3^4

Q4. 3 : 81 :: 6 : ?

A 36

B 750

C 1096

D 1296

$3 : 81 :: 6 : \underline{\qquad}$

$3 : 3^4 :: 6 : 6^4$

$\dfrac{6 \times 6 \times 6 \times 6}{36 \times 36}$

1296

Analogies:

Q5 441 : 462 :: 841 : ?

A 800
B 830
C 870
D 890

$441 : 462 :: 841 : (870)$

$21^2 : 21^2 + 21 \quad 29^2 + 29$

$\sqrt{841} = 29$

$441 + 21 = 462$

$\begin{array}{r} 841 \\ 29 \\ \hline 870 \end{array}$

Table (1-20)
Square (1-35)
Cube (1-15)

Q6. 210 : 6 :: ? : 5

A 120
B 110
C 130
D 125

$210 : 6 :: (126) : 5$

$6^3 - 6 \qquad 5^3 - 5$

$216 - 6 = 210 \qquad 125 - 5$

Analogies:

Q7 Cup is to coffee as bowl is to

A. dish
B. soup
C. spoon
D. Food

coffee → cup

soup →

Q8. Embarrassed is to humiliated as frightened is to

A. Terrified
B. Agitated
C. Courageous
D. Reckless

अपमानित
insult

Terrified

Analogies: ✓

Q9. 35 : 53 :: 56 : ? (65)

A 50
B 60
C 65
D 70

Q10. 14 : 195 :: 21 : ?

A 420
B 440
C 460
D 480

$14 : 195 :: 21 : 440$

$14^2 - 1 \qquad 441 - 1$

$196 - 1$

195

Antonyms

Analogies:

Q11. Happiness: Sorrow::Comfort: ?

hardship

A. hardship
B. easy
C. difficult
D. erase

Q12. 5 : 130 :: ? : 1010

A 10
B 12
C 15
D 20

$5^3 + 5$

$125 + 5$

$= 130$

$10^3 + 10$

$1000 + 10$

1010