Coding – Decoding

Practice Exercise

1. If code of 'LEFT' is 'MFGU', then find the code of 'NABP'. (a) OBDE (b) OBCQ

(a) ODDL	
(c) CBOQ	(d) BABQ
(a) None of these	

- (e) None of these
- 2. If COOL is coded as DQRP, then write the code for HOT. (a) JQW (b) IQW

(c) IQX	(d) IPW
(e) None of these	

- If 'TLMN' is coded as 'RJKL', then 'QDPG' is coded as:
 (a) OBNE
 (b) ENBE
 (c) ONEB
 (d) BENE
 - (e) None of these
- 4. If the code for 'TRAIN' is 'NIART', then the code for 'BRAIN' is:

(a) NIABR	(b) INRAB
(c) NIARB	(d) NIRAB
(e) None of these	

5. If 'Pen' is called 'Book', 'Book' is called 'Sweet' and 'Sweet' is called 'Bed' then what do we read?

(a) Pen	(b) Sweet
(c) Bed	(d) Book
(e) None of these	

6. If 'RTOP' is coded as 'SUPQ', then find the code of 'RATP'. (a) TARQ (b) ARTQ

	(0)1111 Q
(c) SBUQ	(d) UBSQ
(e) None of these	

7. In a certain language 'MPC' is coded as 'LOB'. Find the code for 'TLL' in that language.

(a) TMM	(b) MMT
(c) SKK	(d) MTM
(e) None of these	

- 8. In a certain code, MENTION is written as LNEITNO, How is PATTERN written in that code?
 - (a) ATAETNR(b) OTAETNR(c) OTAESRN(d) TASTENR(e) None of these
- 9. In a certain code language 'A' is coded as 5, 'B' is coded as '6', 'C' is coded as '7' and so on, then find the code of CDDCEA'.
 (a) 798875 (b) 59788
 (c) 897857 (d) 788795
- (e) None of these10. If the code for 'E' is '22', then the code for
 - 'H' is:
 (a) 18
 (b) 17
 (c) 19
 (d) 23
 (e) None of these
- 11. In a certain code language 'Cow' is called 'Lion', lion' is called 'Rat', 'Rat' is called 'Tiger', then which of the following animals is the king of forest?
 - (a) Lion(b) Rat(c) Cow(d) Tiger(e) None of these
- 12. If 'HB' is coded as '82' in a certain code language, then find the code for 'AF'.
 - (a) 15 (b) 18 (c) 12 (d) 16 (e) None of these
- 13. If 'P' is coded as 'U', then how will 'N' be coded?
 - (a) S (b) R (c) Q (d) P (e) None of these
- 14. Find the code for 'FLMTE' if code for 'DGPTN' is 'EFQSO'. (a) KGNSF
 - (b) KNGSF
 - (c) GKNSF
 - (d) NKGSF
 - (e) None of these

- 15. language, 3' is coded as If in a certain 'P'. '4' is coded as 'Y', '5' is coded as 'X', '6' is coded as 'W' and '7' is coded as 'V', then find the code for '753364'.
 - (a) VXPPWY
 - (b) VXPPYW
 - (c) VPXPYW
 - (d) VXPYWP
 - (e) None of these
- 16. In a certain code, PAPER is written as SCTCW. How is MOTHER written in that code?

(a) PQXKJV	(b) OGWRVL
(c) POXJGT	(d) PQXJJT
(e) None of these	

If 'TEMPER' is coded as 'REPMET' in a 17. certain coding language, then find the code for 'ROUND' that language.

	557	
(a) DNROU	(b) DNOUR	

- (c) DNUOR (d) DUNOR
- (e) None of these
- 18. If the code for 'AJH' is '19', then how will 'CHI' be coded? (1) 00 () 05

(a) 25	(b) 20
(c) 24	(d) 23
(e) None of these	

If 'AZ' is coded as '25' in a certain code 19. language, then find the code for 'HW'.

(a) 1	(b) 4
(c) 3	(d) 15

- (e) None of these
- 20. Find the code of 'CDEFT' if the code for 'LMNOD' is 'MOOQE'.

(a) DFFHU	(b) HFFDU
(c) UFHFD	(d) DHFDU

(e) None of these

Answer – Key

1. (B)	2. (B)	3. (A)	4. (C)	5. (B)
6. (C)	7. (C)	8. (B)	9. (D)	10. (C)
11. (B)	12. (D)	13. (A)	14. (D)	15. (A)
16. (D)	17. (C)	18. (B)	19. (D)	20. (A)

Explanation for Selected Questions

1. Explanation

Option (b) is correct because letters are moved one letter forward. $\begin{array}{cccccc} L & E & F & T \\ 12 & 5 & 6 & 20 \\ +1 & +1 & +1 & +1 \\ & 13 & 6 & 7 & 21 \\ M & F & G & U \end{array}$

Code for 'LEFT':

N A B P 14 1 2 16 Similarly, the code for **'NABP'** is: +1|+1|+1|+1|15 23 17 O B C Q

Rest of the options is incorrect because of the

2. Explanation

Option (b) is correct. In COOL, first letter is increased by 1, second by 2, third by 3 and fourth by 4. So HOT will be coded as

$$H \xrightarrow{+1} I; O \xrightarrow{+2} Q; T \xrightarrow{+3} W$$

So, HOT will be written as IQ.W in that code.

3. Explanation

Option (a) is correct because letters are moved two places backward.

Let us see:

Code for 'TLMN':
$$\begin{bmatrix} T & L & M & N \\ 20 & 12 & 13 & 14 \\ -2 & -2 & -2 & -2 \\ 18 & 10 & 11 & 12 \\ R & J & K & L \end{bmatrix}$$

Similarly, the code for **'QDPG'** is: -2 - 2 - 2

Clearly, code for 'QDPG' is 'OBNE'.

4. Explanation

Option (c) is correct because coding is done in reverse order. When 'TRAIN' is written in reverse order it becomes 'NIART' and similarly, when 'BRAIN' is written in reverse order, it will become 'NIARB'.

Rest of the options is incorrect because of the correctness of option (C).

5. Explanation

Option (b) is correct because this is a well-known fact that **'Book'** is a thing to **'Read'** but here, **'Book'** has been called **'Sweet'**. Therefore, in this case, we will definitely read **'Sweet'**.

6. Explanation

Option (c) is correct because letters of **'RTOP'** are moved one step forward as shown below:

Code for 'RTOP':

$$\begin{array}{c}
R & T & O & P \\
18 & 20 & 15 & 16 \\
+1 +1 +1 +1 +1 \\
19 & 21 & 16 & 17 \\
S & U & P & Q
\end{array}$$

By following the same pattern, the code for **'RATP'** will be **'SBUQ'** as shown below:

7. Explanation

Option (c) is correct because the letters of the word **'MPC'** are moved one step backward as shown below:

Code for 'MPC':
$$\begin{array}{c} M & P & C \\ 13 & 16 & 3 \\ \hline -1 & -1 & -1 \\ 12 & 15 & 2 \\ L & O & E \end{array}$$

By following the same rule, the code for **'TLL'** will be **'SKK'** as shown below:

8. Explanation

In the given word, we can analyse that, M is decreased by 1, i.e., M-1=L, and other words are interchanged,

 $EN \longrightarrow NE$

 $TI \longrightarrow IT$

 $ON \longrightarrow NO$

Now, by coding PATTERN in the same code, we get

 $P \xrightarrow{-1} O$; AT \longrightarrow TA; TE \longrightarrow ET; RN \longrightarrow NR So, PATTERN will be written as OTAETNR.

9. Explanation

According to the question, following are the given codes:



Thus, the code for **'CDDCEA'** will be **'788795'.** So, option (D) is the correct choice.

10. Explanation

Option (c) is correct because coding has been done here according to the positions of letters in backward alphabetical order. **'E'** is at '22'nd position and similarly, **'H'** is at **'19' th** position if we arrange alphabets in backward order, i.e., from Z = 1 to A = 26.

11. Explanation

Option (b) is correct because it is a well-known fact that 'Lion' is the 'King' of forest. But here, 'Lion' is called 'Rat'. Therefore, in this case 'Rat' will be the 'King' of forest.

12. Explanation

Option (d) is correct because here, coding has been done according to the positions of letters in forward alphabetical order. The positions of **'H'** and **'B'** are **'8'** and **'2'**, respectively and similarly, positions of **'A'** and **'F'** in the table are **'1'** and **'6'**, respectively.

13. Explanation

Option (a) is correct because the letter ' \mathbf{P} ' is moved five steps forward. In the same manner, the code for ' \mathbf{N} ' is ' \mathbf{S} '.

14. Explanation

Option (c) is correct because letters of the word **'DGPTN'** are moved one step forward and one step backward alternately as shown below:

Code for 'DGPTN':

$$\begin{array}{c}
D & G & P & T & N \\
4 & 7 & 16 & 20 & 14 \\
+1 & -1 & +1 & -1 & +1 \\
5 & 6 & 17 & 19 & 15 \\
E & F & Q & S & Q
\end{array}$$

By, following the similar pattern, the code for **'TLMTE'** is **'GKNSF'** as shown below:

$$\begin{array}{ccccccc} F & L & M & T & E \\ 6 & 12 & 13 & 20 & 5 \\ +1 & -1 & +1 & -1 & +1 \\ 7 & 11 & 14 & 19 & 6 \\ G & K & N & S & F \end{array}$$

15. Explanation

According to the given condition, following are the codes for different digits.

$$\begin{vmatrix} 3 & | & 5 & | & 6 & | & 7 \\ | & P & | & X & W & V \end{vmatrix}$$

Code for '**753364'**:
$$\begin{vmatrix} 7 & 5 & | & 3 & | & 6 & | & 4 \\ | & V & X & P & P & W & Y \end{vmatrix}$$

16. Explanation

Since it is given that in a certain code PAPER is written as SCTGW. So, the letters at the odd positions are moved three, four and five steps forward, while the letters at the even positions are each moved two steps forward. Thus, in this coded language MOTHER is written as PQXJJT. Thus, option (D) is correct.

I	р 	A	P	E	R 	N	Λ	0	T	Н	E I	R I
	+3	+2	+4	+2	+5		+3	+2	+4	+2	+5	+2
101	5	↓ c	↓ Ť	↓ G	↓ ₩	F		à	↓ x	ł	↓ G	↓ T

17. Explanation

Option (c) is correct because coding is done by writing the letters of words in reverse order.

18. **Explanation**

Option (b) is correct because code is the addition of positions of letters in forward alphabetical order.

Code for 'AJH':



By following the same rule, the code for 'CHI' will be obtained as shown below:



So, the code for 'CHI' is '20'.

19. Explanation

Option (d) is correct because code is the difference of positions of letters in backward alphabetical order.



By following the same rule, the code for 'HW' will be obtained as shown below:



20. Explanation

Option (a) is correct because letters of the word LMNOD are moved one step and two steps forward alternately as shown below:

C 3

6 D

D E F T 4 5 6 20

F

+1 +2 +1 +2 +1 +2 +1 4 6 6 8 2Code for 'LMNOD':

By following the similar pattern, the code for 'CDEFT' is 'DFFHIT' as shown below:

C 3	D 4	E 5	F 6	T 20
+1 +	2 +	1 +	2+1	ļ
4	é	ě	8	21
D	F	F	н	U