

## CODING-DECODING

# 2

## CHAPTER

The term **Coding-Decoding** primarily relates with message sent in secret form which can not be understood by others easily. **Coding**, therefore, means rule or method used to hide the actual meaning of a word or group of words and decoding means the method of making out the actual message that is disguised in coding.

### Category I

In this category of questions, a word is coded by simply changing the order of letters of the word.

#### ❖ EXAMPLES ❖

**Ex.1** In a code language if TRAINS is coded as RTIASN, how PISTOL will be coded in the same language ?

- (A) SITLOP                      (B) IPSTLO  
(C) SIPTLO                      (D) IPTSLO

**Sol.** If we compare the basic word {TRAINS} with the coded word {RTIASN}, we would see that the letters used in the word are same as in the basic word but their order of placement has been changed. Letter T at first position of basic word has been placed at second position in the coded word & letter R at second position has been placed in the first position.

It means that in this question, letters of the basic word have been interchanged i.e., first letter with second, third with the fourth and so on. And thus we get the coded word. In this code language word, PISTOL will be coded as IPTSLO. Hence, option (D) is our answer.

### Category II

In this category of questions, letters of a word are substituted for either a new letter or a numeric. And the same substitution helps to find out the coding of the word in questions.

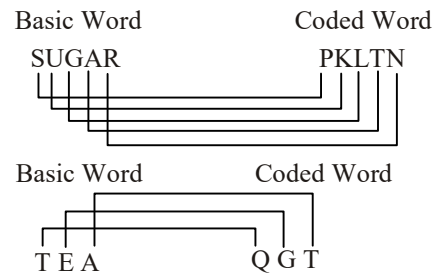
This substitution of letters may either be direct or in a jumbled up fashion.

### (A) Direct Substitution

**Ex.2** In a code language if SUGAR is coded as PKLTN and TEA is coded as QGT, how would you code GREAT in the same code language ?

- (A) ENGTP                      (B) LNGTK  
(C) LNGTQ                      (D) LNGQT

**Sol.**



Here we see that S is substituted for P, U for K, G for L, A for T & R for N. And in the word TEA, T is substituted for Q, E for G and A for T. Now we find that coding for letter A in SUGAR is T and coding for letter A in TEA is also T. This implies that substitution of letter in coded word takes place in the same order as in basic word. In simple words, in the word SUGAR letter S in the basic word has been substituted for a new letter and coded at first place in the coded word, U at the second place, G at the third place and so on.

**When letters of a word are substituted for the new letters and are placed in the coded word at the same position as in the basic word then this method of substitution is called direct substitution.**

Therefore, code for GREAT will be LNGTQ. Hence, option (C) will be our answer.

**Ex.3** In a code language if TEARS is coded as VWXYZ and MAN is coded as 123 then how would you code RESENTMENT in that language ?

- (A) YWZW3V1W3Y  
(B) YWZ3WV1W3Y  
(C) YWZW3V1WY3  
(D) YWZW3V1W3V

**Sol.** This questions is of direct substitution method. Letters of the basic words are substituted as under.

Basic Word : T E A R S  
                 ↓ ↓ ↓ ↓ ↓  
Coded Word : V W X Y Z

Basic Word : M A N  
                 ↓ ↓ ↓  
Coded Word : 1 2 3

Therefore, the coding for the word RESENTMENT will be YWZW3V1W3V. Hence, option (D) is our answer.

**Ex.4** If TEARS is coded as VWXYZ, then how would you code BEAS in that language ?

- (A) YWXZ                      (B) VWXZ  
(C) MWXZ                      (D) WVZY

**Sol.**

Basic Word : T E A R S  
                 ↓ ↓ ↓ ↓ ↓  
Coded Word : V W X Y Z

Using the same coding pattern for BEAS, we get W for E, X for A & Z for S but code for B can not be determined as it is absent in the basic word. Now we shall take the help of options. In option (A) we get W, X, Z for E, A & S respectively which is correct but coding for B can not be Y as it is the code for R. Likewise in option (B). V can not be coded for B as it is the code for T. In option (C) we see that code for B is M which seems to be correct as it has not been used as a code for any of the letters in basic word. Hence, code for BEAS would be MWXZ. Therefore option (C) is our answer.

## (B) Substitution in mixed up fashion

Rule applied in this type of questions follows the same pattern as used in type (A) – **Direct substitution** but with slight modification. Here also in this type each letter of basic word is substituted for a new letter but it may not necessarily be placed in the same position in coded word as it occupies in the basic word. In simple words, it implies that coded letter at first position in basic word does not necessarily occupy the first position in the coded word. It can be placed at any place in the coded word.

**Ex.5** In a code language, if BEAT is coded as 5642 and SWEET is coded as 66912, how would you code TEASE ?

- (A) 96162                      (B) 56264  
(C) 96625                      (D) 55296

**Sol.**

Basic Word                      Coded Word  
BEAT                              5 6 4 2

Basic Word                      Coded Word  
SWEET                            6 6 9 1 2

Coding pattern used in the above question substitution for the letters has not been used directly. Code for E seems to be 6 in BEAT whereas it carries code 9 and 1 in the word SWEET which apparently appears to be incorrect because in substitution method same letter carries same code even if it appears in different word.

Now in word SWEET letter E appears twice and in its coding numeric 6 appears twice. Thus it is confirmed that code for E is 6. It may be concluded from the coding pattern used here that letters of the words BEAT and SWEET have been substituted for numeric in jumbled up form. Word BEAT and SWEET share common letters E and T and their coding share common numeric 6 and 2. Therefore, E is coded as 6 and T is coded as 2. It means that the code for TEASE will definitely have 6 6 & 2 for E, E and T. Code for A and S has yet to be found out.

Now from word BEAT and SWEET again, we see that code for A in word BEAT should be either 5 or 4 (leaving 6 & 2 for E and T). Similarly, code for S should be either 9 or 1 (leaving 6 & 2 for E and T). We shall not take the help of options to answer the code for TEASE.

- (A) It cannot be the code for TEASE as code for A (5 or 4) is not available.  
 (B) It cannot be the code for TEASE as code for S (9 or 1) is not available.  
 (C) It may be the code for TEASE as besides 662 code for EE and T, we get 5 probable code for A and 9 probable code for S. Hence, option (C) is our answer.

### Category III

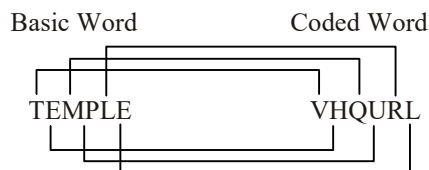
In this category, rule of coding is of entirely different type from what has been discussed so far in category I and II. In this type, word is coded, replacing each letter of the word by a new word from the alphabets (A ..... Z) on the basis of a particular method. It has been explained in the following examples.

#### ❖ EXAMPLES ❖

**Ex.6** If TEMPLE is coded as VHQURL, how would you code CHURCH ?

- (A) EKYWIO (B) EKUWIO  
 (C) EKYWIN (D) EKYWJO

**Sol.**



Code for T is V, for E it is H, for M it is Q. It may be noticed from here that letters of TEMPLE have been replaced by new letters from the alphabets.

There is a gap of one letter between T and V, gap of two letters between E and H, gap of three letters between M & Q and so on in the alphabets.

Therefore, coding for CHURCH is

C	H	U	R	C	H
+1	+2	+3	+4	+5	+6
E	K	Y	W	I	O

Hence (A) is our answer.

**Ex.7** If TEMPLE is coded as VHQNIA, how would you code CHURCH ?

- (A) EKYWI (B) EKYQZD  
 (C) EKYPZD (D) EKYQWD

**Sol.** Coding for TEMPLE is

T	E	M	P	L	E
+1	+2	+3	-1	-2	-3
V	H	Q	N	I	A

Here, the first half of the letters of the word TEMPLE have been replaced with new letters from the alphabets with a gap of 1, 2 & 3 letters respectively in forward direction, and second half of the letters of the word have been replaced by new letters from the alphabets with a gap of 1, 2 and 3 in backward direction. Hence, code for word CHURCH would be EKYPZD. Hence, (C) is our answer.

#### Directions : (Ex. 8 to 10)

The number in each question below is to be codified in the following code :

Digit	7	2	1	5	3	9	8	6	4
Letter	W	L	M	S	I	N	D	J	B

**Ex.8** 184632

- (A) MDJBSI (B) MDJBIL  
 (C) MDJBWL (D) MDBJIL

**Sol.** As given 1 is coded as M, 8 as D, 4 as B, 6 as J, 3 as I and 2 as L. So, 184632 is coded as MDBJIL.

**Ex.9** 879341

- (A) DWNIBS (B) DWNBIM  
 (C) DWNIBM (D) NDWBIM

**Sol.** As given 8 is coded as D, 7 as W, 9 as N, 3 as I, 4 as B and 1 as M. So, 879341 is coded as DWNIBM.

**Ex.10** 64928

- (A) JBNLD (B) JBLND  
 (C) BJNLD (D) DBNLS

**Sol.** As given, 6 is coded as J, 4 as B, 9 as N, 2 as L and 8 as D. So, 64928 is coded as JBNLD.

**Ex.11** In a certain code, 15789 is written as AXBTC, 2346 is written as MPDU. How is 23549 written in that code ?

- (A) MPXDT (B) MPADC  
 (C) MPXCD (D) MPXDC

**Sol.** The numbers are coded as shown :

1 5 7 8 9 2 3 4 6

A X B T C M P D U

i.e., 2 as M, 3 as P, 5 as X, 4 as D and 9 as C.  
So, 23549 is coded as MPXDC.

**Ex.12** In a certain code, 15789 is written as XTZAL and 2346 is written as NPSU. How is 23549 written in that code ?

- (A) NPTUL (B) PNTSL  
(C) NPTSL (D) NBTSL

**Sol.** The numbers are coded as shown :

1 5 7 8 9 2 3 4 6

X T Z A L N P S U

i.e., 2 as N, 3 as P, 5 as T, 4 as S and 9 as L. So, 23549 is coded as NPTSL.

**Ex.13** In a certain code, 33946 is coded as PPOAL and 1987 is coded as ROSE. How is 94678 coded in that code ?

- (A) ROSEP (B) OALES  
(C) POALE (D) OSEPL

**Sol.** The numbers are coded as shown :

3 9 4 6 1 8 7

P O A L R S E

i.e., 9 as O, 4 as A, 6 as L, 7 as E and 8 as S.  
So, 94678 is coded as OALES.

**Ex.14** If in a certain language, 943 is coded as BED and 12448 is coded as SWEET, how is 492311 coded in that language ?

- (A) EDSWBS (B) TSWBDD  
(C) DSWTEE (D) EBWDSS

**Sol.** The number are coded as shown :

9 4 3 1 2 8

B E D S W T

i.e., 4 as E, 9 as B, 2 as W, 3 as D and 1 as S,  
So, 492311 is coded as EBWDSS.

**Ex.15** If MOBILITY is coded as 46293927, then EXAMINATION is coded as

- (A) 45038401854 (B) 56149512965  
(C) 57159413955 (D) 67250623076

**Sol.** Let A = 1, B = 2, C = 3, ..., X = 24, Y = 25, Z = 26  
Then, M = 13 = 1 + 3 = 4; O = 15 = 1 + 5 = 6;

$$L = 12 = 1 + 2 = 3; T = 20 = 2 + 0 = 2;$$

$$Y = 25 = 2 + 5 = 7.$$

So, MOBILITY = 46293927.

Similarly, EXAMINATION = 56149512965.

**Ex.16** If MASTER is coded as  $\overline{411259}$ , then POWDER will be coded as

- (A)  $\overline{765439}$  (B)  $\overline{765459}$   
(C)  $\overline{765459}$  (D)  $\overline{765549}$

**Sol.** Let A = 1, B = 2, C = 3, ..., Z = 26.

$$\text{Now, } M = 13 = \overline{4}$$

(remainder obtained after dividing by 9);

$$S = 19 = 1$$

(remainder obtained after dividing by 9 twice);

$$T = 20 = 2$$

(remainder obtained after dividing by 9 twice);

$$R = 18 = \overline{9}$$

(remainder obtained after dividing by 9).

$$\text{So, MASTER} = \overline{411259}.$$

$$\text{Similarly, POWDER} = \overline{765459}.$$

**Ex.17** In a certain code, 15789 is written as EGKPT and 2346 is written in ALUR. How is 23549 written in that code ?

- (A) ALEUT (B) ALGTU  
(C) ALGUT (D) ALGRT

**Sol.** In the given codes, the numbers are coded as shown :

1 5 7 8 9 2 3 4 6

E G K P T A L U R

i.e., 2 as A, 3 as L, 5 as G, 4 as U and 9 as T.  
so, 23549 is coded as ALGUT.

**Ex.18** In a certain code, a number 13479 is written as AQFJL and 5268 is written as DMPN. How is 396824 written in that code ?

- (A) QLPNKJ (B) QLPNMF  
(C) QLPMNF (D) QLPNDF

**Sol.** In the given codes, the numbers are coded as shown :

1 3 4 7 9 5 2 6 8

A Q F J L D M P N

i.e., 3 as Q, 9 as L, 6 as P, 8 as N, 2 as M and 4 as F. So, 396824 is coded as QLPNMF.

## EXERCISE

### Directions :

In each of the following questions below, find out the correct answer from the given alternatives.

- Q.1** In a certain code, INSTITUTION is written as NOITUTITSNI. How is PERFECTION written in that code ?  
 (A) NOICTEFREP (B) NOITCEFERP  
 (C) NOITCEFRPE (D) NOITCEFREP
- Q.2** In a certain code, GIGANTIC is written as GIGTANCI. How is MIRACLES written in that code ?  
 (A) MIRLCAES (B) MIRLACSE  
 (C) RIMCALSE (D) RIMLCAES
- Q.3** In a certain code, GOODNESS is coded as HNPCODTR. How is GREATNESS coded in that code ?  
 (A) HQFZUODTR (B) HQFZUMFRT  
 (C) HQFZSMFRT (D) FSDBSODTR
- Q.4** In a certain code, EXPLAINING is written as PXEALNIGNI. How is PRODUCED written in that code ?  
 (A) ORPBUDEC (B) ROPUDECD  
 (C) ORPUDEC D (D) None of these
- Q.5** In a certain code, RIPPLE is written as 613382 and LIFE is written as 8192. How is PILLER written in that code ?  
 (A) 318826 (B) 318286  
 (C) 618826 (D) 328816
- Q.6** If PAINTER is written in a code language as NCGPRGP, then REASON would be written as-  
 (A) PCYQMN (B) PGYQMN  
 (C) PGYUMP (D) PGYUPM
- Q.7** In a certain code SOCIAL is written as TQFMFR, then how you will code DIMPLE ?  
 (A) EKPTQK (B) EKPQPJ  
 (C) EKPSPJ (D) EKPSOH
- Q.8** If CARPET is coded as TCEAPR, then the code for NATIONAL would be -  
 (A) NLATNOIA (B) LANOITAN  
 (C) LNAANTOI (D) LNOINTAA
- Q.9** If PORTER is written as QNSSFQ, then BRIGHT would be coded as -  
 (A) CQJFIS (B) CNJHIS  
 (C) CQJFGS (D) CNJHIU
- Q.10** If FESTIVAL is coded as MBWJUTFG, then OPIUM would be coded as -  
 (A) NOHTL (B) NTHNO  
 (C) NVJQP (D) MUIPO
- Q.11** If LINGER is 123456 and FORCE is 56789, then FIERCE is -  
 (A) 345667 (B) 456678  
 (C) 345677 (D) 556789
- Q.12** If CLOTHES is EXHAUST and THRICE is STABLE, then SHIRT is -  
 (A) BLUSH (B) STAUL  
 (C) THULE (D) BLASH
- Q.13** If PICTURE is coded as tuvwxxyz, then PATCH would be coded as -  
 (A) wtzyv (B) twxyz  
 (C) tqwvm (D) mtuvw
- Q.14** In a code language is POSE is coded as OQNPR TDF, then TYPE will be coded as -  
 (A) SUXZOQFD (B) SUXZQOFD  
 (C) SUXZOQDF (D) SUXZQODE
- Q.15** 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
- Q.16** In a certain code, PRODUCTS is written as NPMBSARQ. How is COMPREHENSION written in that code ?  
 (A) AMKNPCFCLOMLQ  
 (B) AMKNPCFCLQGML  
 (C) AMKNPCFCLQGNL  
 (D) AMKNPCFCKOML
- Q.17** In a certain code, BOY is written as \$\* • and HOUR is written @\*£0. How is RUBY written in that code ?  
 (A) 0 £ \$ • (B) 0 \$ £ •  
 (C) • \$ £ 0 (D) • £ \$ 0

**Q.18** In a certain code language, QUEUE is written as Q 22, and CHURCH is written as 1UR1. Which of the following would be most appropriate code for BANANA in that language ?

- (A) B5A5 (B) 5N5A  
(C) B55A (D) BA5A5A

**Q.19** In certain code, BOXER is written as AQWGQ. How VISIT is written in that code ?

- (A) UKRKU (B) UKRKS  
(C) WKRKU (D) WKRKS

**Directions (20-24) :**

The word 'FEATURE' has been coded in five different ways. Same codes have been used for the word 'STRAIGHT' but not in the same order. Match identical parts.

	FEATURE	STRAIGHT
<b>Q.20</b>	GFBUVSF	(A) TVUENMOB
<b>Q.21</b>	EFZUTSDX	(B) THGIARTS
<b>Q.22</b>	EFTARUE	(C) TUSBHIU
<b>Q.23</b>	GGDXZXL	(D) TSARGITH
<b>Q.24</b>	ERUTAEF	(E) RUQBHHGU

**Directions (25-28) :**

In the following questions some capital alphabets are written in a row, below them their coding have been given. Now in questions a particular word has been coded in a particular manner using codes as given below the capital letters. You have to understand the pattern of coding and have to answer the question asked subsequently.

A	B	C	D	E	F	G	H	I	J	K	L	M
u	a	2	v	b	w	3	t	4	x	s	y	5
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
z	6	c	d	8	7	e	r	h	9	i	p	q

**Q.25** If DEER is to vw8 and TOSS is to e6e, then DOTT is to -

- (A) v6r (B) bce (C) bcr (D) vr6

**Q.26** If MAIDEN is to yux2b6, then FIBRES is to-

- (A) b428w8 (B) b4288w  
(C) b42dbe (D) b42bde

**Q.27** If MAY is to yzqaiq, then TIE is to -

- (A) 7rtxwv (B) 7rtxvw  
(C) 7rtxbw (D) 7rtxwb

**Q.28** If LONDON is to 5c62z5, then EUROPE is to-

- (A) wh7cdw (B) wh7z6v  
(C) br76cb (D) wh76cb

**Q.29** If DASH is to 2 a 84, then SMASH is to -

- (A) 7 5 u 7 t (B) e y a 8 4  
(C) 8 z q e 3 (D) 8 z q e 4

**Q.30** If BAFFLE is to aat4cx, then DANGER is to-

- (A) vacx49 (B) vacxh9  
(C) vacxhi (D) vacxhr

**Q.31** If FASHION is to z64t7uw, then POSITION is to-

- (A) z64e476c (B) z64e47c6  
(C) c674e46z (D) c674e4z6

**Q.32** If MAIDEN is to uzv4zb, then DANGER is to-

- (A) vuz3b8 (B) 8b3zuv  
(C) uv3z8b (D) uv3zb8

**Directions (33-42) :**

In each of the following questions, a word has been coded and its code is written against it to the left of the sign ball. The word to the right of it has been coded on the same principle and the code is given as one of the four alternatives under it. To find the answer you have to consult the matching of the small letters against the capital letters as given below and arrive at the principle involved in the coding. The coding in each question has not necessarily been done on the same pattern. Find the correct alternative in each case and mark your answer on the answer sheet.

A	B	C	D	E	F	G	H	I	J	K	L	M
n	l	d	j	x	k	y	i	b	f	a	t	z
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
w	v	q	r	o	m	c	p	h	s	g	u	e

**Q.33** HEART : bklmp :: NERVOUS : ?

- (A) wlntnid (B) yiqovbn  
(C) wxohvpm (D) vkmsqhc

**Q.34** SERMON : mjmzww :: FATHER : ?

- (A) ylpbkm (B) xemyjr  
(C) kepijm (D) knxico

**Q.35** SOCIAL : vmbdtn :: OPERATOR : ?

- (A) wvjremwr (B) qrkmlbqm  
(C) vxqonevo (D) qvxcnov

**Q.36** RETURN : okchov :: EQUATION : ?

- (A) xoplcfvv (B) krhnpbqw  
(C) xrpncbv (D) kohlpfqv

- Q.37** SILENT : laswvb :: COMB : ?  
(A) ewam (B) cuyk (C) dvzl (D) lwtn
- Q.38** NERVOUS : xypiwnq :: AGHAST : ?  
(A) nyinmc (B) zkyzom  
(C) liblep (D) ozjond
- Q.39** MASTER : wlcpxm :: SELDOM : ?  
(A) ckzxqw (B) mxtjvz  
(C) ckzxwq (D) nyvkwa
- Q.40** CLAIM : dtbnz :: BORDER : ?  
(A) loxjv (B) ljoxxo  
(C) lvoxxo (D) vljoxj
- Q.41** CEMENT : jkwxzm :: MATURE : ?  
(A) wlpwrj (B) wlpwmk  
(C) temwrj (D) zncpox
- Q.42** QUICK : soccb :: BREED : ?  
(A) kpwyi (B) mnywk  
(C) loxxj (D) mpyyk

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**Directions (43-75) :**

In each of the following questions, find the correct answer from the given alternatives.

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- Q.43** If SCIENCE is coded as UFMJTM, GENE will be coded as :  
(A) HGQI (B) IHRJ  
(C) IHRI (D) IHSJ
- Q.44** If NEW ZEALAND is coded as @ Q + ? Q \* # \* @ X, then DEALWON may be coded as :  
(A) XQ\*#+ ? @ (B) XQ\* ? + B@  
(C) XQ \* # + B @ (D) XQ\* # + B + @
- Q.45** If MEDICO is coded as PBGFLL, DOCTOR will be coded as :  
(A) GLFQRO (B) GLFQLR  
(C) GLFQLS (D) GRFWLQ
- Q.46** If SYSTEM is coded as 131625, TERMS may be coded as :  
(A) 62251 (B) 62451  
(C) 64251 (D) 62415
- Q.47** If SUGAR is coded as RPKLU, GURUS may be coded as :  
(A) KPUPR (B) RPVPR  
(C) LKRKP (D) PKVKR
- Q.48** If SYSTEM is written as SYSMET, and NEARER as AENRER, FRACTION will be coded as :  
(A) ARFITOON (B) CARFNOIT  
(C) ARFITCNO (D) NOITCARF
- Q.49** If BEST is written as VYMN, DTCP may be written as :  
(A) WNVJ (B) XNWJ  
(C) XMWJ (D) XNWL
- Q.50** If BRASS is coded as 63516, SIR will be coded as :  
(A) 631 (B) 315  
(C) 536 (D) 617
- Q.51** If BEAT is written as GIDV, SOUP may be written as :  
(A) YSXR (B) ZSYS  
(C) XSYSR (D) XSXR
- Q.52** If BROWN is coded as ZPMUL, VIOLET will be coded as :  
(A) TGMJCR (B) SGMJCQ  
(C) TGMJCQ (D) TGWCQ
- Q.53** If MADRAS is coded as TBSEBN, NEW DELHI will be coded as :  
(A) JNKFEXFO (B) JIMFFUFO  
(C) JIMFEXFO (D) JIMFEXEP
- Q.54** If MADRAS is coded as NZEQBR, CALCUTTA will be coded as :  
(A) OZMBVSUB (B) DZMBVSUZ  
(C) DZMBUUZ (D) BBKBTUSB
- Q.55** If OLYMPICS is coded as PMZNOHBR, and JUMP is coded as KVLO, COMPUTER will be coded as :  
(A) DPNQVUFS (B) DPNQTSFQ  
(C) DPNQTSQ (D) BNLOTSQ
- Q.56** Using the above procedure for coding, AUGUST will be coded as :  
(A) BVHTRU (B) BVHVTU  
(C) BVHVRS (D) BVHTRS
- Q.57** If ZUBIN is coded as ATCHO, MEHTA will be coded as :  
(A) NDIUB (B) NDISB  
(C) NDGSB (D) NDHSI

- Q.58** If HINDU is coded as 61257, and MAN is coded as 924, INDIRA will be coded as :  
 (A) 454626 (B) 594921  
 (C) 452787 (D) 884572
- Q.59** If NOCIE is written as \$ @ # ? %, and SCENT is written as # % \* ^ @, then COIN will be coded as:  
 (A) #?\$@ (B) #?@%  
 (C) @^?\$ (D) None of these
- Q.60** If EQOKYO stands for DOLLAR, and QQXMBP stands for POUNDS, the code for MARK will be-  
 (A) NCUO (B) NCUJ  
 (C) NCQI (D) NCPH
- Q.61** If AMERICA is coded as RAIMCEA, BRITAIN is coded as TBARIIN, INDIA will be coded as :  
 (A) DINIA (B) DIINA  
 (C) DINAI (D) IIDNA
- Q.62** If AMRITSAR is coded as MAIRSTRA, CALCUTTA will be coded as :  
 (A) ACLCTUAT (B) LACTUCAT  
 (C) ACCLTUAT (D) ACCLUTAT
- Q.63** If in a code language REMOTE is coded as ROTEME, which word would be coded as PNIICC?  
 (A) PNIICC (B) PICCIN  
 (C) PINCIC (D) PICNIC
- Q.64** If in certain code language, UTENSIL is coded as WVGPUKN, which word would be coded as DMSFXG ?  
 (A) BKQEVE (B) BKQDWE  
 (C) BKQDWF (D) BKQDVE
- Q.65** If FLARE is coded as 21, 15, 2, 9, 22, how would BREIF be coded in the same language?  
 (A) 25, 9, 22, 21, 18 (B) 5, 37, 11, 19, 13  
 (C) 13, 19, 11, 37, 5 (D) 25, 9, 22, 18, 11
- Q.66** If in a code language CIRCLE is coded as XRIOXV, how would you code SQUARE in the same language ?  
 (A) HJFZIV (B) HJFZIX  
 (C) HJFZLX (D) HJFZVI
- Q.67** If POLITICS is coded as OPILITSC, how will ARTICLES be coded in that language ?  
 (A) RAITLCES (B) RAITLCSE  
 (C) ARITLCSE (D) RAITLECS
- Q.68** If FASHION is coded as NFOAISH, how will TRITIES be coded in that language ?  
 (A) STERITI (B) STERIIT  
 (C) STERTII (D) STREIIT
- Q.69** If CRICKETER is coded as DQJBLDUDS, PLAYER will be coded as -  
 (A) QMBZFS (B) OMZZDS  
 (C) QKBXFQ (D) QKBZDS
- Q.70** If REACHING TOMORROW is coded as HOJIDBFS XPSSPNPU, UIHJMG EFZBMFE means :  
 (A) TRAINS DELAYED  
 (B) FLIGHT DELAYED  
 (C) CANCEL JOURNEY  
 (D) FLIGHT CANCEL
- Q.71** If in a certain code MICHAEL is coded as JGBHBGO, in this code AMERICA will be written as :  
 (A) XKDRJEC (B) XKDRKED  
 (C) XKDRJED (D) XKERJED
- Q.72** If ACNE is coded as 3, 7, 29, 11, BOIL will be coded as :  
 (A) 5, 31, 21, 25 (B) 5, 31, 19, 25  
 (C) 5, 29, 19, 25 (D) 5, 29, 19, 27
- Q.73** If FULFNHW is the code for CRICKET, then EULGH is the code for which word ?  
 (A) PRIDE (B) BRIDE  
 (C) BLADE (D) BLINS
- Q.74** If ELCSUM is the code for MUSCLE, which word has the code LATIPAC ?  
 (A) CONFESS (B) CONDUCE  
 (C) CAPITAL (D) CAPRICE
- Q.75** FRIEND is coded as HUMJTK, how is CANDLE written in that code ?  
 (A) EDRIRL (B) DCQHQQ  
 (C) ESJFME (D) FYOBOC

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**Directions (76-81) :**

The following questions are based on the pattern as used for previous questions. Understand the coding pattern and answer the questions.

---

Column I	Column II
(1) FAMOUS	(A) jcqhxp
(2) SATIRE	(B) hqdbyn
(3) FRIGHT	(C) ybcnke
(4) TANGLE	(D) zewhnd
(5) ROVING	(E) epbmyw
(6) HUNTER	(F) wdnbxk

**Q.76** What is the code used for the letter M ?  
(A) q (B) x (C) j (D) e

**Q.77** What is the code used for the letter E ?  
(A) d (B) n (C) b (D) k

**Q.78** What is the code used for the letter F ?  
(A) w (B) p (C) d (D) c

**Q.79** What is the code used for the letter A ?  
(A) h (B) q (C) b (D) n

**Q.80** What is the code used for the letter N ?  
(A) e (B) p (C) m (D) w

**Q.81** What is the code used for the letter U ?  
(A) d (B) n (C) b (D) x

---

**Directions (82-86) :**

In the following questions, two columns I and II have been given. In column I few words are given and in column II their codes have been given using a particular rule. The order of the smaller letter have been placed in jumbled up form. You have to decode the language and choose the alternative which is equal to letter asked in the question.

---

Column I	Column II
(1) DESIGN	(A) uklbjz
(2) INFORM	(B) cbxkqy
(3) MOTHER	(C) ygzwx
(4) RIGHTS	(D) bjucgw
(5) TAILOR	(E) wcpybv
(6) GARDEN	(F) vzejlk

**Q.82** What is the code for letter N ?  
(A) u (B) k (C) c (D) g

**Q.83** What is the code for letter F ?  
(A) l (B) b (C) q (D) g

- Q.84** What is the code for letter O ?  
(A) y (B) k (C) v (D) c
- Q.85** What is the code for letter S ?  
(A) z (B) w (C) u (D) x
- Q.86** What is the code for letter G ?  
(A) l (B) p (C) b (D) j

---

**Directions (87-96) :**

In column I, some words are given. In column II, their codes are given but they are not arranged in the same order in which they are in column I. Study the letters in both columns and find out the code to the letter given in each of the following questions.

---

Column I	Column II
(1) BID	(A) nnrw
(2) BAT	(B) emps
(3) BAD	(C) lwz
(4) CHEAP	(D) aejmnq
(5) HILL	(E) kms
(6) PORK	(F) emrvx
(7) QUOTE	(G) ehqr
(8) ROSE	(H) iotx
(9) VEX	(I) aceenoww
(10) WAVE	(J) elu
(11) NAMELY	(K) befms
(12) FAMILIAR	(L) moty
(13) HAZY	(M) elz
(14) VAGUE	(N) dfmtu

**Q.87** B  
(A) l (B) u (C) e (D) z

**Q.88** C  
(A) e (B) z (C) v (D) p

**Q.89** D  
(A) e (B) z (C) u (D) b

**Q.90** F  
(A) r (B) f (C) w (D) c

**Q.91** G  
(A) a (B) c (C) b (D) j

**Q.92** H  
(A) t (B) r (C) l (D) s

**Q.93** A  
(A) r (B) t (C) s (D) e

- Q.94** K  
(A) h (B) j (C) i (D) k
- Q.95** M  
(A) b (B) a (C) c (D) d
- Q.96** Z  
(A) h (B) g (C) f (D) l

**Directions (97-104) :**

In column I, some words are given. In column II, their codes are given but they are not arranged in same order in which they are in column I. Study the letters in both column and find out the code to the letter given in each of the following questions.

- |  | <b>Column I</b> | <b>Column II</b> |
|--|-----------------|------------------|
|  | (1) SOUND       | (A) abi          |
|  | (2) ADDRESS     | (B) cjm v        |
|  | (3) CRUX        | (C) ikmop        |
|  | (4) NET         | (D) ijktv        |
|  | (5) CRONY       | (E) jkgotv       |
|  | (6) CROWDY      | (F) blooppv      |
- Q.97** What is the code for the letter A ?  
(A) b (B) l (C) v (D) g
- Q.98** What is the code for the letter C ?  
(A) j (B) k (C) l (D) t
- Q.99** What is the code for the letter D ?  
(A) k (B) l (C) m (D) o
- Q.100** What is the code for the letter N ?  
(A) a (B) c (C) q (D) I
- Q.101** What is the code for the letter O ?  
(A) i (B) j (C) k (D) p
- Q.102** What is the code for the letter R ?  
(A) o (B) p (C) v (D) l
- Q.103** What is the code for the letter S ?  
(A) k (B) p (C) v (D) e
- Q.104** What is the code for the letter T ?  
(A) a (B) b (C) e (D) k

**Directions (105-109) :**

According to a code language, words in column I are written in capital letters. And in column II their codes are given. The codes in column II are jumbled up. Decode the language and choose the correct code for word given in each question.

- |  | <b>Column I</b>  | <b>Column II</b> |
|--|------------------|------------------|
|  | (1) DELIBERATION | (A) aemrq s      |
|  | (2) CONSIDERATE  | (B) ccehlmo      |
|  | (3) GHOSTLIKE    | (C) efhmoqqrx    |
|  | (4) WORLDLY      | (D) edgmqr sxx   |
|  | (5) KNOWLEDGE    | (E) adefmopqqsz  |
|  | (6) ROCKET       | (F) cefkmopqqsz  |
- Q.105** KNIGHT  
(A) ghrxyz (B) fhmpqr  
(C) gprsxz (D) fgrsxz
- Q.106** BLOAT  
(A) ckmps (B) cmpqs  
(C) ikpqz (D) hmpqz
- Q.107** NOTICE  
(A) efhpqs (B) fg hpqr  
(C) afmqsz (D) acdeqs
- Q.108** SOLACE  
(A) acdmpq (B) demopq  
(C) acemoq (D) aedpqr
- Q.109** WORDY  
(A) adeop (B) efhlm  
(C) ehlmo (D) fhlmq

**Directions (110-119) :**

According to a code language, words in column I are written in capital letters. And in column II their codes are given. The codes in column II are jumbled up. Decode the language and choose the correct code for word given in each question.

- |  | <b>Column I</b> | <b>Column II</b> |
|--|-----------------|------------------|
|  | (1) CHAIN       | (A) acmvq        |
|  | (2) FRAIL       | (B) pnqal        |
|  | (3) TEAM        | (C) wjqd         |
|  | (4) DESTINY     | (D) xwtjazc      |
|  | (5) TOIL        | (E) ajgl         |
|  | (6) VARY        | (F) qbzn         |
|  | (7) NAUGHTY     | (G) iqcfvzj      |
- Q.110** DAILY  
(A) aqzla (B) alzqi  
(C) lzqat (D) aqtzc
- Q.111** TEAR  
(A) nqjw (B) qwmc  
(C) jwqc (D) fjcw

- Q.112** REACH  
 (A) nnxqmm (B) nxwwt  
 (C) wxnmv (D) mqwvn
- Q.113** AIRY  
 (A) naqz (B) qamz  
 (C) amqv (D) tamq
- Q.114** SUSTAIN  
 (A) xqfjamc (B) fafjcqc  
 (C) xxqfjac (D) xqfjaac
- Q.115** ENVOY  
 (A) cwbgz (B) bgzww  
 (C) tcwbz (D) wbbgz
- Q.116** RACE  
 (A) mwqm (B) nqmw  
 (C) qnmv (D) wcmw
- Q.117** COIL  
 (A) lmgq (B) mgaj  
 (C) lmga (D) gjma
- Q.118** DISTRESS  
 (A) xxaxjnw (B) xxaxjmw  
 (C) xxxaajmw (D) xxaxjnwv
- Q.119** DELHI  
 (A) ltwva (B) ltwvm  
 (C) ltwvq (D) wtlvm

**Directions : (Q. 120 to 128)**

In a certain language, the numbers coded as follows :  
 How are the following figures coded in that code ?

4	3	9	2	1	6	7	8	5	2	0
A	W	P	Q	R	B	E	S	G	J	M

- Q.120** 421665  
 (A) AQRBBG (B) PQBRSE  
 (C) ASGRBE (D) QRPSSE
- Q.121** 67825  
 (A) BESGJ (B) BSEJG  
 (C) BESJG (D) BSEGJ
- Q.122** 55218  
 (A) GJGRS (B) GGJSR  
 (C) GGRJS (D) GGJRS
- Q.123** 91352  
 (A) PRWGJ (B) PRGWJ  
 (C) RPGWJ (D) RGPWJ
- Q.124** 720435  
 (A) EJMAWG (B) MAGJRW  
 (C) EJMAWG (D) MGARJW

- Q.125** 6650  
 (A) BBMG (B) BBGM  
 (C) BGMB (D) BMGB
- Q.126** 3215  
 (A) WJRG (B) WJGR  
 (C) JWRG (D) JWGR
- Q.127** 67852  
 (A) BSEJG (B) BESJG  
 (C) BSEGJ (D) BESGJ
- Q.128** 439216  
 (A) PQRWAB (B) AQRWPB  
 (C) APWQRB (D) AWPQRB

**Directions: (Q. 129 to 135)**

In a certain language, 36492 is written as SMILE and 058 is written as RUN. How are the following figures coded in that language ?

- Q.129** 33980  
 (A) SSLNR (B) SSLRN  
 (C) SLSNR (D) Can't be determined
- Q.130** 6458  
 (A) MUIN (B) MINU  
 (C) INUM (D) MIUN
- Q.131** 92486  
 (A) LEIMN (B) ELINR  
 (C) LEINM (D) EILNM
- Q.132** 54324  
 (A) SIUEI (B) UISEI  
 (C) USIIE (D) UISIE
- Q.133** 90089  
 (A) NLLRN (B) LRLNN  
 (C) LLRRN (D) LRRNL
- Q.134** 3425  
 (A) SEIU (B) SIUE  
 (C) SRUI (D) SIEU
- Q.135** 29463  
 (A) ELISM (B) ELIMS  
 (C) LIMSE (D) EILMS
- Q.136** 'START = WALK' and BUDPI = XZFMQ,  
 how will you code 'STUPID' ?  
 (A) BAZMOE (B) WAZMQF  
 (C) WAZMFQ (D) BAZMQF

**Q.137** If GREEN is coded as FSDFM, what will be the last letter of the word in the same code for BLUE ?

- (A) M (B) R  
(C) F (D) T

**Q.138** If FULFNHW is the code for CRICKET, then EULGH is the code for which word ?

- (A) PRIDE (B) BRIDE  
(C) BLADE (D) BLIND

**Q.139** How will you code ACCOMMODATE if S and V are coded as 8 and 5 respectively ?

- (A) 26-24-24-12-14-14-23-22-26  
(B) 26-24-24-12-14-14-23-26-22  
(C) 2-25-25-12-14-14-23-26-22  
(D) 26-24-12-14-14-23-21-26-22

**Q.140** If MACHINE is coded as 19-7-9-14-15-20-11, how will you code DANGER ?

- (A) 10-7-20-13-11-24 (B) 11-7-20-16-11-24  
(C) 13-7-20-9-11-25 (D) 13-7-20-10-11-25

**Q.141** If in code language, digits are used for the letters according to the following code.

D	I	N	E	S	H	K	U
8	2	5	1	7	4	9	3

What number will represent the word 'SHKNUDI' ?

- (A) 7453298 (B) 7493582  
(C) 7495238 (D) 7495382

**Q.142** If *eraser* is called *box*, *box* is called *pencil*, *pencil* is called *sharpener* and *sharpener* is called *bag*, what will a child write with ?

- (A) Eraser (B) Box  
(C) Pencil (D) Sharpener

**Q.143** If *man* is called *girl*, *girl* is called *woman*, *woman* is called *boy*, *boy* is called *butler* and *butler* is called *rogue*, who will serve in a restaurant ?

- (A) Butler (B) Girl (C) Man (D) Rouge

**Q.144** If CEJQ is coded as XVQJ, then BDIP will be coded as :

- (A) WURQ (B) YWRK  
(C) WUPI (D) YWPI

**Q.145** In a certain code language, '851' means 'good sweet fruit'; '783' means 'good red rose' and '341' means 'rose and fruit'. Which of the following digits stands for 'sweet' in that language ?

- (A) 8 (B) 5 (C) 1 (D) 3

**Q.146** If SEND-MONEY is coded as QCLB-KMLCW, what will be the first and last letters of the word in the same code for MOST-SECRET?

- (A) R, K (B) K, R  
(C) O, V (D) V, U

**Q.147** In a certain code language, '134' means 'good and tasty'; '478' means 'see good pictures' and '729' means 'pictures are faint'. Which of the following digits stands for 'see'?

- (A) 9 (B) 2 (C) 1 (D) 8

**Q.148** In a certain code language-

'123' means 'hot filtered coffee'

'356' means 'very hot day'

and '589' means 'day and night'.

Which of the following numeral symbols stands for 'very' ?

- (A) 9 (B) 5 (C) 8 (D) 6

**Q.149** If 'gnr tag zog qmp' stands for 'Seoul Olympic Organising Committee'; 'hyto gnr emf' stands for 'summer Olympic games' and 'esm sdr hyto' stands for 'modern games history', what would be the code for 'summer'?

- (A) hyto (B) gnr (C) emf (D) zog

**Q.150** If in a certain code language -

(1) 'hupa chip fu pa' stands for 'Ram is very intelligent'

(2) 'Chip hupa kupa tik' stands for 'Hari is very smart'.

(3) 'lik fu hupa' stands for 'Boy is intelligent'

(4) 'fu tik dop' stands for 'Smart and intelligent'

then which one of the following words is used for 'Hari'.

- (A) chip (B) hupa  
(C) fu (D) kupa

## ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ans.	D	B	B	D	A	C	A	C	A	C	B	D	C	C	B	B	A	C	B	C
Ques.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Ans.	E	D	A	B	A	C	B	B	C	A	A	C	C	C	D	A	B	D	A	C
Ques.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	A	B	B	C	A	B	A	B	B	D	D	A	C	B	C	D	B	C	A	C
Ques.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Ans.	B	C	D	D	D	A	B	B	C	B	C	B	B	C	A	C	A	D	A	D
Ques.	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Ans.	D	B	C	A	C	D	A	C	B	D	C	B	D	C	B	A	B	A	D	D
Ques.	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Ans.	C	C	B	A	D	A	C	A	C	C	A	D	A	C	A	B	C	A	A	A
Ques.	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
Ans.	C	D	A	C	B	A	D	D	A	D	C	B	D	D	B	B	C	B	B	A
Ques.	141	142	143	144	145	146	147	148	149	150										
Ans.	D	D	D	C	B	B	D	D	C	D										

## HINTS & SOLUTION

120. As given, 4 is coded as A, 2 as Q, 1 as R, 6 as B and 5 as G. So 421665 is coded as AQRBBG.
121. As given, 6 is coded as B, 7 as E, 8 as S, 2 as J and 5 as G. So, 67825 is coded as BESJG.
122. As given, 5 is coded as G, 2 as J, 1 as R and 8 as S. So, 55218 is coded as GGJRS.
123. As given, 9 is coded as P, 1 as R, 3 as W, 5 as G and 2 as J. Thus, 91352 is coded as PRWGJ.
124. As given, 7 is coded as E, 2 as J, 0 as M, 4 as A, 3 as W and 5 as G. So, 720435 is coded as EJMAWG.
125. As given, 6 is coded as B, 5 as G and 0 as M. So 6650 is coded as BBGM.
126. As given 3 is coded as W, 2 as J, 1 as R and 5 as G. So, 3215 is coded as WJRG.
127. As given, 6 is coded as B, 7 as E, 8 as S, 5 as G and 2 as J. So, 67852 is coded as BESGJ.
128. As given 4 is coded as A, 3 as W, 9 as P, 2 as Q, 1 as R and 6 as B. So, 439216 is coded as AWPQRB.

### Q.129 to 135 :

Clearly, the numbers in the given figures are coded as follows :

3 6 4 9 2 0 5 8  
S M I L E R U N

129. 3 is coded as S, 9 as L, 8 as N and 0 as R, So, 33980 is coded as SSLNR.
130. 6 is coded as M, 4 as I, 5 as U and 8 as N, So, 6458 is coded as MIUN.
131. 9 is coded as L, 2 as E, 4 as I, 8 as N and 6 as M. So, 92486 is coded as LEINM.
132. 5 is coded as U, 4 as I, 3 as S, and 2 as E. So, 54324 is coded as UISEI.
133. 9 is coded as L, 0 as R and 8 as N. So, 90089 is coded as LRRNL.
134. 3 is coded as S, 4 as I, 2 as E and 5 as U. So, 3425 is coded as SIEU.
135. 2 is coded as E, 9 as L, 4 as I, 6 as M and 3 as S. So 29463 is coded as ELIMS.
136. By summing up code for given words.
140. By placing the given digit value in place of letters.
147. By summing up the given data.
148. As hot = 3, and day = 5, so, 6 = very.
150. As hupa = is, fu = intelligent, chip = very, tik = smart  
∴ kupa = Hari