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INTELLIGENCE (Reasoning)

CODING-DECODING

The **Coding-Decoding** relates with the system to send message in a secret form to maintain the secrecy of actual meaning of the world or group of world or message. The system of words, symbols, numbers, signs which are being used for sending message secretly is called **Coding** and conversion of the secret coded message in actual meaning is known as **Decoding**.

Alphabets are in ascending/descending orders

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
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
26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

Example 1. If D is coded for 4, G is coded for 7, and O is coded for 5, than what is code for GOOD?

Solution :

Given Word	G	O	O	D	GOOD
Code for each word	7	5	5	4	7554

Example 2. If the code of BAND 1354 and code for PAST is 2378. Find the code of **PANT**.

Solution :

Given					B	A	N	D		P	A	S	T
					1	3	5	4		2	3	7	8

Code of **PANT**			P	A	N	T
			2	3	5	8

Example : If in a certain language **LOGIC** is coded as **BHFNK**, how is **CIG** coded in that language?

Given	L	O	G	I	C		Solution	C	I	G
	B	H	F	N	K			K	N	F

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Example 2: If **ASK** is coded as **BTL** and **LATE** is coded as **MBUF**. Find the code of **GIRL**.

Given		A	S	K
		B	T	L

L	A	T	E
M	B	U	F

Given letter is coded with next letter such as A=B, S=T, K=L, L=M, A=B, T=U, E=F

So, G=H, I=J, R=S, L=M

Code of **GIRL**		G	I	R	L
		H	J	S	M

EXERCISE FOR PRACTICE

1.   If **A** is coded as 1, **B** is coded as 2, **C** is coded as 3, **D** is coded as 4, **E i**s coded as 5, then how is **BDC** coded ?

 (a)   543   (b)   243   (c)   354   (d)   234

2.   If in a secret language **ORGEN** is coded as **63021**, How is **GANRO** coded in that language?

(a)   03216   (b)   02136   (c)   06312   (d)   01236

3.   If in a secret language **FOX** is coded as **GP**Y, How is **DOG** coded in that language.?

(a)   PHE   (b)   HPE   (c)   EPH   (d)   NPH

4.   If in a secret language **GUN** is coded as **HVO**, then the coded form **IBU** is for which word ?

(a)   JCV   (b)   HTA   (c)   TAH   (d)   HAT

5.   If in a secret language **TRACK** is coded as **BATM**P, How is **KACRT** coded in that language?

 (a)   PMTAB   (b)   PTAMB   (c)   PMBAT   (d)   PTMAB

6.   If **A** is coded as 2, **B** is coded as 4, **C** is coded as 6, **D** is coded as 8, **E** is coded as 10, then how is CAD coded ?

(a)   628   (b)   682   (c)   268   (d)   826

7.   If, **ABC** is coded as **BCD**, then **LKG** will be coded as:

(a)   MLH   (b)   GKL   (c)   KJF   (d)   JKL

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8. If **A** is coded as 5, **B** is coded as 2, **C** is coded as 3, **D** is coded as 7, **E** is coded as 5, then how is CAB coded ?

(a) 523   (b) 253   (c) 352   (d) 523

9. In a code **JULY** is coded as **NXNZ**, then what will be code for word **MARK**?

(a) QDLT   (b) LDTL   (c) QDTL   (d) RDTL

10. If, **TABLE** is coded as **YEENF**, then what will be code for word **CHAIR** ?

(a) HLDKS   (b) HKDLS   (c) SLDKH   (d) HLKSD

11. In certain language **TARGET** is coded as **TEGRA**T. Then **MANOJ** is coded in that language.

(a) JOANM   (b) JONAM   (c) OJMAN   (d) OANJM

12. If, **PATNA** is coded as **43253**. What is the code of **PATAN**?

(a) 43235   (b) 42353   (c) 25334   (d) 53233

13. In a code **FIRE** s coded as **DGPC**. How is **SHOT** will be coded?

(a) MFQR   (b) RSQF   (c) QMFR   (d) QMRF

14. If in a certain code **GAMA** is coded as **8252.** How **ARM** is will be coded?

(a) 2195   (b) 2105   (c) 2205   (d) 2025

15. If, **ARMY** coded as **1947**. How **LOVE** will be coded?

(a) 3645   (b) 2645   (c) 2545   (d) 3654

16. In certain language **FOX** is coded as **GPY**. How **DOG** is coded in that language?

(a) PHE   (b) HPE   (c) FHP   (d) EPH

17. If, LONGE coded as **MNPQT**. How **EGNOL** will be coded?

(a) PNMQR   (b) NTQPM   (c) TQPNM   (d) TQPMN

18. In a certain code **MATCH** is coded as **58791**. How is **TACHM** coded in that code?

(a) 78915   (b) 79815   (c) 98715   (d) 71598

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19.   In a certain code **TARGT** coded as **MOPGT**. How is **RATGT** is coded?

(a)   TGTPO   (b)   TGTOP   (c)   TOPGM   (d)   POTGM

20.   In a certain code, **TOUR** is coded as **1234**, **CLEAR** is coded as **56784** and **SPARE** is coded as 90847 then how is **SCULPTURE** coded in that code?

(a)   395601347 (b)   953601347 (c)   935601347 (d)   963501347

21.   If **SOCIAL** is written as **TQFMFR** then **DIMPLE** is coded as :

(a)   EKPTKQ   (b)   ETPKQK   (c)   EKPTQK   (d)   EPTKQK

22.   If, **Water** is known as **Road**, **Road** as **Cloud**, **Cloud** as **Sky**, **Sky** as **Sea** and **Sea** is known as **Path**, where would **airplanes** fly?

(a)   WATER   (b)   ROAD   (c)   CLOUD   (d)   SEA

23.   In a code **JUNE** is written as **NCPF**, then what will be the code of **STAY**?

(a)   WCZW   (b)   WWZC   (c)   WWCZ   (d)   MYPE

24.   If **BAD** is coded as **7**. The code of **HIS** is **36** then what will be the code of **LAW**?

(a)   36   (b)   33   (c)   34   (d)   37

25.   In a certain code **LONGE** is coded as **MNPQT**. How is **EGNOL** coded in that code?

(a)   TPQNM   (b)   TQPNM   (c)   TNPQM   (d)   NPQTM

26.   If a certain code, **UMESH** is coded as **FNVHS**. How is **SHEM** coded in such code?

(a)   SHVN   (b)   HSVN   (c)   VNHS   (d)   NCHS

27.   In a certain code **NATION** is coded as **MNHSZM**. How is **MARCH** be coded in that code?

(a)   GBSZL   (b)   GBQZL   (c)   GBOZN   (d)   LZQBZ

28.   In certain language **NUMBER** is coded as **UNBMRE**. How is **GHOST** coded in that language.

(a)   HGSOT   (b)   GHPTS   (c)   HGOTS   (d)   TOGSH

29.   If, **SAYING** is coded as **6** then **CALCULATOR** will be coded as:

(a)   5   (b)   10   (c)   16   (d)   15

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30.   If **AaB** is coded as **628** then **aBA** will be coded as:

(a)   862   (b)   628   (c)   284   (d)   286

31.   In a certain language **1234** is coded as **ABCD** then **5678** will be coded as:

(a)   EFGH   (b)   DFGI   (c)   FEGH   (d)   GHFE

32.   In a certain code **POLICE** is coded as **ONKHBD**, then how is **INSPECTO**R coded in that language?

(a)   MHRODBSNQ   (b)   HMRODBSNQ   (c)   HROMRDBSQN

33.   If, **LADY** is coded as **MBEZ**. How is **GIRL** written in that code?

(a)   HJSM   (b)   JHSM   (c)   JSHM   (d)   HSMJ

34.   If, **DOCTOR** is coded as **36**, then *PATIENT* will be coded as:

(a)   20   (b)   40   (c)   30   (d)   12

35.   If, **COLD** stands for **GOLD**, then **COAL** will stand for:

(a)   GOAL   (b)   BOAL   (c)   LOAB   (d)   OABL

36.   In a certain code **MYSTIFY** is coded as **NZTUJGZ.** How is **PHYSICS** coded in that language?

(a)   RIXTJBT   (b)   SZSJBT   (c)   QIZTJDT   (d)   QIZJTDT

37.   If, **BOXER** know as **AQWGQ**. How **VISIT** is coded?

(a)   UKRKU   (b)   UKRKS   (c)   KRKUW   (d)   WKRKS

38.   In a certain language **OUT** is **152120**, then what is the code for **IN**:

(a)   914   (b)   149   (c)   212215   (d)   1593

39.   If, **HAPPY** is coded as **51223**. How is **SHEM** then the code for **PAHPY**:

(a)   21352   (b)   21235   (c)   32152   (d)   21523

40.   In a certain language **GAME** is coded as **SDQDBS**. How is **SOURCE** coded in that language ?

(a)   YLHH   (b)   HYLH   (c)   YHLH   (d)   HHYL

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ANSWER KEY

Q No	Ans	Q No	Ans	Q No	Ans	Q No	Ans	Q No	Ans
1	(b)	2	(b)	3	(c)	4	(d)	5	(d)
6	(a)	7	(a)	8	(c)	9	(c)	10	(a)
11	(b)	12	(a)	13	(c)	14	(b)	15	(a)
16	(d)	17	(c)	18	(a)	19	(d)	20	(a)
21	(c)	22	(d)	23	(c)	24	(a)	25	(b)
26	(a)	27	(b)	28	(a)	29	(b)	30	(d)
31	(a)	32	(b)	33	(a)	34	(b)	35	(a)
36	(c)	37	(b)	38	(a)	39	(d)	40	(a)