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Competitive Reasoning By Suraj Sir

Coding- Decoding

Coding is a system of signals. This is a method of transmitting information in the form of codes or signals without it being known by a third person. The person who transmits the code or signal, is called the sender and the person who receives it, is called the receiver. Transmitted codes or signals are decoded on the other side by the receiver—this is known as decoding.

Alphabet Code – Decode

Alphabetical order position	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
Alphabets	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
Reverse order	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

Alphabet Coding Set 01
Type 01 - Alphabet To Alphabet

Q1 In a certain code language "**BROWN**" is written as "**CSPXO**" . How is "**PART**" written in that code ?
 a) OBQU   b) QBSU   c) OZQS   d) RBTU   e) None of These

Q2 In a certain code language "**NOIDA**" is written as "**STNIF**" . How is "**MEERUT**" written in that code ?
 a) QIIVYX   b) RJJWZV   c) RJJWZY   d) RIIVYX   e) None of These

Q3 'PICTURE' is written as 'QHDSVQF'. How would 'BROWSER' be written in that same code language?
   a) CQVVTDS   b) CQPVTDS   c) CQPUTDS   d) CQVPPDS   e)   None of the above

Q4 In a certain code language "**BREAKDOWN**" is written as "**NWODKAERB**" .

   How is "**TRIANGLES**" written in that code ?
 a) AIRTGNEL   b) SELGWTRIA   c) AIRTSEL   d) SELGNAIRT   e) None of These

Q5 In a certain code language "**CROWD**" is written as "**DQPVE**" . How is "**BLEND**" written in that code ?
 a) CMFOE   b) CKFMF   c) AKDMC   d) AMDOC   e) None of These

Q6 In a certain code language "**DESIGN**" is written as "**FCUGIL**" . How is "**REPORT**" written in that code ?
 a) TCRMPR   b) TCRMTR   c) TCTMPR   d) TCTNTR   e) None of These

Q7 In a certain code language "**IMAGINE**" is written as "**ENIGAMI**" .

 How is "**FLOWERS**" written in that code ?
 a)RESWFOL   b) SREWOLF   c) SREWOLE   d) WOLFSRE   e) None of These

Q8 In a certain code language "**BELOW**" is written as "**FCKVN**" . How is "**GIVEN**" written in that code ?
 a) JHVVMD   b) HJUMD   c) JHMUD   d) JHUMD   e) None of These

Q9 In a certain code language "**ANEEL**" is written as "**NAEEL**" . How is "**NEERU**" written in that code ?
 a)ENREU   b) ENERU   c) EENRU   d) EERNU   e) None of These

Q10 In a certain code language "**DROWN**" is written as "**MXNSC**" . How is "**BREAK**" written in that code ?
 a) BSNS   b) RGPQ   c) MNLO   d) JBDSA   e) None of These

Q11 In a certain code language "**MASTER**" is written as "**RETSAM**" .

How is "**FATHER**" written in that code ?
a) RATEHF   b) RHETAF   c) REHTAF   d) HERTAF   e) None of These

Alphabet Coding Set-02

1. **If in a certain language, MADRAS is written as NBESBT, how is BOMBAY coded in that code?**
   1. CPNCBX   2. CPNCBZ   3. CPOCBZ   4. CQOCBZ   5. None of these

2. **In a certain language TRIPPLE is written as SQHOOKD, how is DISPOSE written in that code?**
   1. CHRONRD   2. DSOESPI   3. ESJTPTF   4. ESOPSID   5. None of these

3. **If in a code language, COULD is written as BNTKC and MARGIN is written as LZQFHM, how will MOULDING be written in that code?**
   1. CHMFINTK   2. LNKTCHMF   3. LNTKCHMF 4. NITKHCMF 5. None of these

4. **In a certain code, MONKEY is written as XDJMNL, how is TIGER written in that code?**
   1. QDFHS   2. SDFHS   3. SHFDQ   4. UJHFS   5. None of these

5. **If FRAGRANCE is written as SBHSBODFG, how can IMPOSING be written?**
   1. NQPTJHOJ   2. NQPTJOHI   3. NQTPJOHJ   4. NQPTJOHJ 5. None of these

6. **In a certain code, COMPUTER is written as RFUVQNPC, how is MEDICINE written in the same code?**
   1. EOJDJEFM   2. EOJDEJFM   3. MFEJDJOE   4. MFEDJJOE 5. None of these

7. **If in a certain code, GAMBLE is written as FBLCKF, how FLOWER is coded in that code?**
   1. GKPVFQ   2. EMNXDS   3. GMPVDS   4. HNQYGT   5. EKNVDQ

8. **If in a certain code, NATURE is coded as MASUQE, how is FAMINE coded in that code?**
   1. FBMJND   2. FZMHND   3. GANIOE   4. EALIME   5. FZNJME

9. **If in a certain code, TEACHER is written as VGCEJGT , how would DULLARD be written in that code?**
   1. FWMNCTF   2. FWNNBTE   3. FWNNCSF 4. FWNNCTF   5. None of these

10. **If in a certain code, FASHION is coded as FOIHSAN, how is PROBLEM is written in that code?**

   1. ROBLEMP   2. PELBORM   3. PRBOELM 4. RPBOELM 5. PELBROM

11. **If in a certain code, KINDLE is coded as ELDNIK, how is EXOTIC coded in that language?**

   1. EXOTLC 2. CXOTIE   3. COXITE   4. CITOXE   5. EOXITC

12. **If VICTORY is coded as YLFWRUB, how can SUCCESS be coded?**

   1. VXEEIVV 2. VXFFHVV 3. VYEEHVV 4. VYEFIVV 5. None of these

13. **If in a certain code, TOGETHER is coded as RQEGRJCT, how is PAROLE coded in that language?**

   1. NCPQJG 2. NCQPJG 3. RCPQJK   4. RTCQNG   5. None of these

14. **If BOMBAY is coded as MYMYMY, how can TAMIL NADU be coded?**

   1. TIATIATIA 2. MNUMNUMNU 3. IATIATIAT 4. ALDALDALD 5. None of these

Answer
01. 2 (CPNCBZ)   02. 1 (CHRONRD)   03. 3 (LNTKCHMF)
04. 1 (QDFHS)   05. 4 (NQPTJOHJ)   06. 1 (EOJDJEFM)
07. 2 (EMNXDS)   08. 4 (EALIME)   09. 4 (FWNNCTF)
10. 2 (PELBORM)   11. 4 (CITOXE)   12. 2 (VXFFHVV)
13. 1 (NCPQJG)   14. 2 (MNUMNUMNU)

Alphabet Coding Set 03

1. **LAUGH is written as NCWIJ, How SMILE is written in that code?**

   1) FGTHJ 2) UOKNG 3) UOKNI 4) UOKNG 5) UOKMG

2. **ANYWHERE is written in certain code CLAUJCTC ,How COMPUTER is written in that code?**

   1) FNOWRTGP 2) EMONWRGT 3) EMONWRGT 4) FMONERGT 5) EMONWRGP

3. **In a certain language BANKING is coded as BNIKNAG. How is PROBLEM coded in that code?**

   1) PELBORM 2) PRLEBOM 3) MELBORP   4) MROBLEP   5) None

4. **In a certain language BOOKS is coded as DDDVL. How is NOTES coded in that code?**

   1) BDMKL 2) BDNKH 3) BDNJM   4) BDNJL   5) None

5. **DECORATE is written in certain code as ABZLOXQB, How is REASONING coded in that code ?**

   1) OBXPLKFKD 2) OBXPLJFJKD 3) OBXPLKFKE   4) None

6. **PARROT is written in certain code as SBQSPU, How SECOND is written in that code?**

   1) DFTEOP 2) DFTPOE 3) TFPEOP 4) TFTPOE 5) None

7. **RADIUS is written in certain language SUIRAD ,How CIRCLE is written in that code?**

   1) ELCRIC   2) CLERIC 3) ELCCIR 4) CLECIR 5) None

8. **TENDER is written in certain language NETRED ,How PLAYER is written in that code?**

   1) AEPRLY   2) ALPYER   3) PLAREY 4) APLRYE 5) None

9. **AIRTEL is written in certain language LETRIA ,How GOOGLE is written in that code?**

   1) ELOGGO   2) ELGOOG   3) EOLGOG 4) GOELGO 5) None

10. **CAREFUL is written in certain language QBBFKVE ,How is PROCESS written in that code?**

   1) NSODTRD   2) OSNDDTR   3) NSODRTD 4) ONSDTDR 5) None

Answer

01. 2) UOKNG	02. 5) EMONWRGP	03. 1) PELBORM
04. 4) BDNJL	05. 1) OBXPLKFKD	06. 2) DFTPOE
07. 3) ELCCIR	08. 1) AEPRLY	09. 2) ELGOOG
10. 3) NSODRTD		

Alphabet Coding Set 04

1. **How many such pairs of letter in the word CREDIBLE which has many letter between them in the English alphabet**
   1)None   2)One   3)Two   4)Three   5)More than three

2. **How many such pairs of letter in the word FLASHLIGHT each of which is far away from the beginning of the word as it is from the English alphabet ?**
   1)None 2)One 3)Two 4)Three 5)More than three

3. **If the letters in the word BREAK rearranged as they appear in the English alphabet then the position of how many letter will remain unchanged after the rearrangement ?**
   1)None,   2)One   3)Two   4)Three   5)More than three

4. **How many such pairs of letter in the word ENVIRONMENT each of which has many letters between them in the word as in the English alphabet ?**
   1)None   2)One   3)Two   4)Three   5)More than three

5. **How many such pairs of letter in the word BONDING each of which has many letters between them in the word as in the English alphabet ?**
   1)None   2)One   3)Two   4)Three   5)More than three

6. **If in the word DISTURBANCE ,first letter is interchanged with the last letter ,second letter is interchanged with the tenth letter and so on, which would come after T in the newly formed word ?**
   1)S   2)D   3)U   4)N   5)I

7. **If the letter in the word TRANSFORM are rearranged in the alphabetical order ,Which one will be in the middle of the rearranged word?**
   1)R   2)O   3)S   4)M   5)None of these

8. **How many such pairs of letter are there in the word CONFUSING each of which has as many letter between them in the word as in the English alphabet ?**
   1)None   2)One   3)Two   4)Three   5)More than three

9. **How many such pairs of letter in the word CLEARING each of which has 1 letters between them in the word also in the alphabet ?**
   1)None   2)One   3)Two   4)Three   5)More than three

10. **How many such pairs of letter in the word CHILDREN each of which has 2 letters between them in the word also in the alphabet ?**

1)None   2)One   3)Two   4)Three   5)More than three

Answer

01. 5) More than three	02. 1) None	03. 2) One
04. 5) More than three	05. 4) Three	06. 1) S
07. 2) O	08. 5) More than three	
09. 3) Two	10. 1) None	

Alphabet Coding Set 05

1. **If the following series is written in the reverse order, which will be fourth to the right of the seventh letter from the left ?**
   D J O N L C H F V A S R Q X G Y I
   1)O   2)I   3)V   4)H   5)None of these

2. **If each of the odd position in the letter CAREFULLY is increased by 1 and each of the even position letter are decreased by 1 then which will be the new word ?**
   1)EZSDHTNKY 2)EZSDHTNKY   3)DZSDGTMKZ   4)DYTFGTNKY 5)None of these

3. **How many such letter are there in the word MATHEMATICS each of which is far away from the beginning of the number as when the letter are arranged in descending order ?**
   1)One   2)Two   3)Three   4)More than three   5)None of these

4. **What should come next in the following number series ?**
   AABABCABCDABCDEABCDEFABCDE
   1)F   2)D   3)G   4)H   5)None of these

5. **What should come next in the following letter series ?**

   AN   CQ   ET ?

   1)JZ   2)IZ   3)GW   4)KA   5)None of these

6. **How many such pairs of letter in the word EDUCATION each of which has as many letters between them in the English alphabet ?**

   1)One   2)Two   3)Three   4)More than three   5)None of these

7. **If T is denoted as A , R is denoted as B, E is denoted as Q, I is denoted as O, N is denoted as C and S is denoted as M then INTEREST is written as**

   1)OCAQBQMA   2)OSAPDOMA   3)OCSIBQNB   4)OBAUBUMA 5)None of these

8. **If each consonant in the word COMPUTER is replaced by previous letter and each vowels letter in the English alphabet is replaced by next letter in the English alphabet ,then the coded word is**

   1)BQLOVTFR   2)BPLOVSFQ   3)BPLOVSFR   4)ARLQVUFS   5)BPLOVTFR

9. **Which of the following will be the next letter in the following series ?**

   A B D G K ?

   1)Q   2)P   3)O   4)N   5)None of these

10.   **The position of how many alphabets will remain unchanged if each of the alphabets in the word KILOGRAM is arranged alphabetical order from left to right**

   1)One   2)Two   3)Three   4)More than three   5)None of these

Answer

01. 2) I   02. 3) DZSDGTMKZ   03. 5)None of these
04. 1) F   05. 3) GW   06. 4) More than three
07. 1) OCAQBQMA   08. 2) BPLOVSFQ
09. 2) P   10. 5) None of these

Blood Relation set – 01

1. **Introducing Veena , Kowri said "She is the only daughter of my father's only daughter".How is Kowri related to Veena?**
   1)Niece   2)Sister   3)Aunt   4)Mother   5)None of these

2. **Pointing toward a boy ,Arjun said , "He is the son of only son of my grandfather".How is the boy related to to Arjun?**
   1)Brother   2)Uncle   3)Cousin   4)Father   5)None of these

3. **A man is said to lady , "Your mother's husband's sister is my aunt". How is the lady related to to the man?**
   1)Mother   2)Sister   3)Daughter 4)Aunt   5)Grand daughter

4. **Pointing to Kamal,Sheeba said , " His mother's brother is the father of my son Akilesh". How is Kamal related to Sheeba?**
   1)Niece   2)Nephew   3)Aunt   4)Sister-in-law 5)None of these

5. **Pointing to a photograph ,Nithish said, "She is the mother of my sons's wife's daughter". How is Nithish related to lady?**
   1)Son   2)Uncle   3)Father   4)Father – in – law 5)None of these

6. **If Kiran says, "Rocky's mother is the only daughter of my mother", How is Kiran related to Rocky?**
   1)Brother   2)Father   3)Uncle   4)Grand father   5)None of these

7. **Pointing to a man, Dinesh said, " His only brother is the father of my daughter's father". How is the man related to Dinesh?**
   1)Father   2)Grand father   3)Uncle   4)Brother   5)None of these

8. **Aswin said , " This girl is the wife of the grandson of my mother". Who is Aswin to that girl?**
   1)Husband   2)Father   3)Brother   4)Uncle   5)Father-in-law

9. **Pointing to an old man,Jeeva said, " His son is my Son's uncle". How is the old man related to Jeeva ?**
   1)Father   2)Uncle   3)Brother   4)Grandfather   5)None of these

10. **A woman introduce a man as the son of the brother of her mother.How is the man related to the woman?**
    1)Son   2)Nephew   3)Uncle   4)Cousin   5)None of these

Answers

01. 4) Mother   02. 1) Brother   03. 2) Sister   04. 2) Nephew

05. 4) Father – in – law   06. 3) Uncle   07. 3) Uncle

08. 5) Father-in-law   09. 1) Father   10. 4) Cousin

Ranking System

1.In a group of 40 girls, when latha was shifted by 4 places towards her right, then she become 12th from the left end what was her earlier position from the right end of the row?
1) 34   2) 32   3) **33**   4) 35   5) None of These

2.In a group of 40 boys, Raju is 12th from the left end and Raghu is 17th from the right end. If Dilip is placed exactly between them what is his right hand rank?
1) 22   2) **23**   3) 24   4) 25   5) None of These

3.In a row of students, Ravi is 10th to left of Ramesh, who is 30th from the left end. If Ramesh is exactly in the middle of ravi and Sandeep, then find.
(I) How many minimum numbers of students is possible in that row?
(1)39   (2)38   (3)**40**   (4)41   (5)Can't be determined
(II) What is the total strength?
(1)90   (2)80   (3)40   (4)70   (5)**Can't be determined**

4. Amit is 24th from the left end and 6th from the right of Sumit. Anuj is 33th from the right end.

Sumit is between Amit and Anuj.

(I) What will be the total strength?

(1) 45   (2) **44**   (3) 50   (4) 43   (5 None of These

(II) What is Anuj's position from the left end?

(1) 11   (2) 10   (3) **12**   (4) 13   (5) None of These

5. Kanmani ranked sixteenth from the top and twenty ninth from the bottom among those who passed an examination. Six boys did not participate in the competition and five failed in it. How many boys were there in the class?
(1) 35   (2) 45   (3) 50   (4) **55**   (5) None of These

6. Murugan is sixth from the left end and Prasanna is tenth from the right end in a row of boys. If there are eight boys between Murugan and Prasanna, how many boys are there in the row?

(1) 21   (2) 23   (3) **24**   (4) 25   (5 None of These

7. In a row of girls, Nithya and Suganya occupy the ninth place from the right end and tenth place from the left end, respectively. If they interchange their places, then Nithya and Suganya occupy seventeenth place from the right and eighteenth place from the left respectively. How many girls are there in the row?

(1) 22   (2) **26**   (3) 24   (4) 28   (5 None of These

8 .In a queue of children, Arun is fifth from the left and Suresh is sixth from the right. When they interchange their places among themselves, Arun becomes thirteenth from the left. Then, what will be Suresh's position from the right?

(1) 8th (2) **14th**   (3) 15th (4) 16th (5 None of These

9. Some boys are sitting in a row. P is sitting fourteenth from the left and Q is seventh from the right. If there are four boys between P and Q, how many boys are there in the row?

1) 19   2) 21   3) 23   4) **25**   5) None of These

10.Vimal is 7 ranks ahead of Sathish in a class of 39. If Sathish's rank is seventeenth from the last, what is Vimal's rank from the start?

1) 11   2) 13   3) **16**   4) 18   5) None of These

11.Malik is fourteenth from the right end in a row of 40 boys. What is his position from the left end?

1) 21   2) 24   3) 25   4) **27**   5) None of These

12.In a row of trees, one tree is fifth from either end of the row. How many trees are there in the row?

1)8   2) **9**   3) 10   4) 11   5) None of These

12. In a class of 35 students, Kamal is placed seventh from the bottom whereas Sunil is placed ninth from the top. Manoj is placed exactly in between the two. What is Kamal's position from Manoj?

1) 7   2) **9**   3) 10   4) 12   5) None of These

13.Students line up in a queue in which Ashok stands fifteenth from the left and Sakthi is seventh from the right. If they interchange their places, Sakthi would be fifteenth from the right. How many students are there in the queue?

1)11   2) 22   3) 28   4) **29**   5) None of These

14.Sugan ranks sixteenth from the top and forty ninth from the bottom in a class. How many students are there in the class?

1)54   2) **64**   3) 65   4) 66   5) None of These

Answer

01 (3) **33**   02 (2) **23**   03 (3)**40**   04 (2) **44** , (3) **12**   05 (4) **55**   06 (3) **24**

07 (2) **26**   08 (2) **14th**   09 (4) **25**   10 (3) **16**   11 (4) **27**

12 (2) **9**   13 (4) **29**   14 (2) **64**   15 (4) **32**

Direction Sense Test

1. Nishu starting from a fixed point goes 15 km towards North and then after turning to his right he goes 15 km. Then he goes 10, 15 and 15 metres after turning to his left each time. How far is he from his starting point?
(A) 5 metres (B) 10 metres (C) 20 metres (D) 15 metres (E) Can not be determined

2. Anjali goes 12 km towards North from a fixed point and then she goes 8 km towards South from there. In the end she goes 3 km towards east. How far and in what direction is she from her starting point?
(A) 7 km East (B) 5 km West (C) 7 km West (D) 5 km North-East (E) None of these

3. Ritu goes 30 km towards North from a fixed point, then after turning to her right she goes 15 km. After this she goes 30 km after turning to her right. How far and in what direction is she from her starting point?
(A) 45 km, East (B) 15 km, East (C) 45 km, West (D) 45 Km, North (E) None of these

4. Neha goes 5 km towards east from a fixed point N and then 35 km after turning to her left. Again she goes 10 km after turning to her right. After this she goes 35km after turning to her right. How far is she from N ?
(A) 40 m (B) At N (C) 10 m (D) 15 m   (E) None of these

5. Hemant walked 40 metres facing towards North. From there he walked 50 metres after turning to his left. After this he walked 40 metres after turning to his left. How far and in what direction is he now from his starting point?
(A) 40 m, North (B) 50 m, West (C) 10 m, East (D) 10 m, West(E) None of these

6. Rohit goes 7 km towards South-East from his house, then he goes 14 km turning to West. After this he goes 7 km towards North West and in the end he goes 9 km towards East. How far is he from his house?
(A) 14 km   (B) 7 km   (C) 2 km (D) 5 km   (E) None of these

7. Manisha stops after going 10 km towards west from her office. Then she goes 8 km turning to her left. After this she goes 4 km turning to her left. How

(A) 18 km   (B) 8 km   (C) 16 km   (D) 14 km   (E) None of these

8. Manju is at a fixed point, from where she goes 20 metres towards West. From there she goes 10 metres towards Notrh. Then she goes 35 metres towards East and after this she goes 5 metres towards South and in the end she goes 15 metres towards West. How far is she from the fixed point?
(A) 5 km   B) 0 km   (C) 10 km   (D) Can not be determined   (E) None of these

9. Ramesh walks 15m towards South from a fixed point. From there he goes 12 m towards North and then 4 m towards West. How far and in what direction is he from the fixed point?
(A) 3 m, South   (B) 7 m, South-West   (C) 5 m, South-West   (D) 5 m, South-East

(E) None of these

10. Sam walked 10 m towards West from his house. Then he walked 5 m turning to his left. After this he walked 10 m turning to his left and in the end he walked 10 m turning to his left. In what direction is he now from his starting point?

(A) South   (B) North   (C) East   (D) West   (E) None of these

11. Abhishek walks 100 m from his house towards North. From there he goes 100 m towards West. Here is the house of Shyam. From there they both goes to the market which is in the South-West direction from Shyam's house. If the market is in the West of Raman's house, then how far is the market from Raman's house?

(A) 100 m   (B) 150 m   (C) 300 m   (D) 400 m   (E) None of these

12. Sahil goes 5 km towards North from a fixed point. Then he goes 3 km after turning to his right. After this he goes 5 km turning to his right. In the end he goes 4 km after turning to his left. How far and in what direction is he now from the fixed point?
(A) 4 km, West   (B) 7 km, East   (C) 9 km, East   (D) 7 km, West (E) None of these

Answer					
1. **(B)**	2. **(D)**	3. **(B)**	4. **(D)**	5. **(B)**	6. **(D)**
7. **(E)**	8. **(A)**	9. **(C)**	10. **(B)**	11. **(E)**	12. **(B)**