

BANK EXAMS

REASONING

CODING – DECODING

Coding – Decoding test is related to secret message or words to be decoded in the given data. They are coded according to a definite pattern or rule which should be identified first. Then the same rule could be applied to decode another coded word or message.

Types of Coding – Decoding:

Letter Coding: Letters of the given words moves certain steps either forward or backward as in English alphabet. Sometimes asked to find out the rules from a set of letters and apply those rules in another set of words or letters for coding or decoding.

Coding by Analogy: In this type of coding the sequence is available in the question itself. Shifting of letters, letters represented by digits, letters represented by symbols etc.,

Coding by Substitution: In this type some particular objects are assigned code names. Then a question is asked to answer in a code language.

e.g.: If Apple is called Orange, Orange is called Peach, Peach is called Potato, Potato is called Banana, Banana is called Papaya and Papaya is called Guava. Which of the following grows underground?

- 1) Potato 2) Guava 3) Apple 4) Banana
5) None of these

Ans: 4 (Potato is called Banana and Potato grows Underground)

- ★ Coding by shifting words.
- ★ Coding based on conditions
- ★ Structure based coding. etc.,

MODEL QUESTIONS

1. In a certain code HEALING is written as BFIKHOJ. How is BEDTIME written in that code?
1) EFCSJNF 2) EFCSFNJ 3) EFCUFNS 4) CFESFNJ
5) None of these
2. In a certain code FIRE is written as #%@\$ and DEAL is written as ©\$★↑. How is FAIL written in that code language?
1) #★%↑ 2) #\$\$↑ 3) # ★@\$ 4) #★©↑
5) None of these
3. In a certain code language, 'come again' is written as 'ho na', 'come over here' is written as 'pa na ta', and 'over and above' is written as 'ki ta ja'. How is 'here' written in that code language?
1) pa 2) na 3) ta 4) ja
5) None of these
4. In a certain code '59346' is written as '\$AD%F' and '8173' is written as 'HB#D'. How is '9865' written in that code?
1) HAF\$ 2) AFH\$ 3) ADF\$ 4) BHF\$
5) None of these
5. In a certain code LONG is written as 5123 and GEAR is written as 3748. How is LANE written in that code language?
1) 5427 2) 5247 3) 5847 4) 5237
5) None of these

6. In a certain code BREAKDOWN is written as BFSCJMVNC. How is ORGANISED written in that code language?
1) PSHBMCDRH
2) BHSPMCDRH
3) BHSPOCDRH
4) BHSPNHRDC
5) None of these
7. In a certain code language 'pik da pa' means 'where are you', 'da na ja' means 'you may come' and 'na ka sa' means 'he may go'. Which of the following means 'come' in that code language?
1) da
2) ja
3) na
4) Cannot be determined
5) None of these
8. In a certain code ROSE is written as #43\$ and FIRST is written as 5★#37. How is STORE written in that code?
1) 473\$#
2) 473#
3) 374#
4) 347#
5) None of these
9. In a certain code JUST is written as #@%\$ and LATE is written as ©↑\$★. How is TASTE written in that code?
1) ★↑%\$★
2) \$↑%\$★
3) \$↑%★\$
4) \$%↑%★
5) None of these
10. In a certain code SOUTHERN is written as UVPTMQDG. How is MARIGOLD written in that code?
1) JSBCNFKS
2) JSBNHPME
3) JSBNCKNF
4) NBSKCJNF
5) None of these
11. In a certain code GEAR is written as '5934' and RIPE is written as '4869'. How is PAGE written in that code?
1) 6359
2) 6539
3) 4359
4) 6459
5) None of these
12. In a certain code KITE is written as %2\$# and STUD is written as @\$57. How is DESK written in that code?
1) 8% ©#
2) ©8%#
3) #7%@
4) 7#@%
5) None of these
13. In a certain code language 'how many are there' is written as 'ka na ta da' and 'many are welcome here' is written as 'na pi ni ka'. How is 'how' written in that code language?
1) ta
2) da
3) ta or da
4) Data inadequate
5) None
14. In a certain code BUILDER is written as JVCKSFE. How is SEALING written in that code language?
1) BTFKHOJ
2) JOHKBFT
3) TFBKHOJ
4) BFTKJOH
5) None of these
15. In a certain code WAVE is written as '5%3★' and WINS is written as '59@©'. How is SANE written in that code?
1) ©9@★
2) ★%©@
3) ©@%★
4) ©%@★
5) None of these

KEY

1-2; 2-1; 3-1; 4-5; 5-1; 6-2; 7-2; 8-3; 9-2; 10-3; 11-1; 12-4; 13-3; 14-5; 15-4.

EXPLANATIONS

1-2; |HEA| |L| |ING|
 ↓ ↓ ↓
 |AEH| |L| |GNI|
 +1 ↓ -1 ↓ +1 ↓
 |BFI| |K| |HOJ|

Similarly..

|BED| |T| |IME|
 ↓ ↓ ↓
 |DEB| |T| |EMI|
 +1 ↓ -1 ↓ +1 ↓
 |EFC| |S| |FNJ|

2-1; |F| |I| |R| |E| |D| |A| |L|
 # % @ \$ © ★ ↑

3-1; come again = ho na (i)
 come over here = pa na ta(ii)
 over and above = ki ta ja (iii)
 From (i) and (ii), come = na (iv)
 From (ii) and (iii) over = ta(v)
 Using (iv) and (v) in (ii), we get here = pa.

4-5; |5| |9| |3| |4| |6| |8| |1| |7|
 \$ |A| |D| |%| |F| |H| |B| |#|

Therefore, 9865 = AHF\$

5-1; |L| |O| |N| |G| |E| |A| |R|
 5 |1| |2| |3| |7| |4| |8|

Therefore, LANE = 5427

6-2; |BREA| |K| |DOWN|
 ↓ ↓ ↓
 |AERB| |K| |NWOD|
 +1 ↓ -1 ↓ -1 ↓
 |BFSC| |J| |MVNC|

Similarly..

|ORGA| |N| |ISED|
 ↓ ↓ ↓
 |AGRO| |N| |DESI|
 +1 ↓ -1 ↓ -1 ↓
 |BHSP| |M| |CDRH|

7-2; pik da pa = where are you (i)
 da na ja = you may come (ii)
 na ka sa = he may go (iii)
 From (i) and (ii), da = you(iv)
 From (ii) and (iii), na = may (v)
 Using (iv) and (v) in (ii), we get ja = come

