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Coding & Decoding (New Pattern) for IBPS PO 2017

50 Must-solve Questions (With Solutions)



Message from Bank Naukri: This pdf contains 50 questions on Coding & Decoding (New pattern), a very important section for IBPS PO 2017. All the questions are carefully hand-picked by experts and designed to help the aspirant gain a thorough understanding of the topic. You can find detailed solutions after every set of questions.

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Set 1

In a certain code language,

'gamon tame sample plan' is written as '@E4 &N4 %N5 #E6'

'tried solution plant great' is written as '#N8 @D5 %T5 &T5'

'sick point good turn' is written as '#K4 %D4 @N4 &T5'

'garden sister phone team' is written as '&E5 #R6 %N6 @M4'

1. Which of the following is code for 'translate'?

- A. @E8
- B. @E9
- C. #E8
- D. #T8
- E. #T9

2. Which of the following is code for 'plan'?

- A. %N5
- B. @E4
- C. &N4
- D. #E6
- E. None of these

3. In the given code language, what does the code '%D4' mean?

- A. point
- B. turn
- C. sick
- D. good
- E. None of these

4. What could be the code for 'magnet'?

- A. @M6
- B. @T6
- C. #M6
- D. #T6
- E. Cannot be determined

5. What does the code "#R6" mean?

- A. Garner
- B. Sister
- C. Martyr
- D. Seller
- E. Cannot be determined

Solution

The number in each code is the number of letters in a word. The alphabet is the last letter of the word. The symbol is unique, and is based on the starting letter of the word. For eg, the code for 'tame' is '@E4' - @ for all words starting with t, E because it is the ending letter and 4 is the total number of letters.

1. B
2. C
3. D
4. E
5. B

Set 2

In a certain code language

"login gamesup and scroll" is written as "&3d @6l *5n %7p"

"scroll for sbi exam" is written as "@6l @3i \$3r #4m"

"study exam related notes" is written as "#4m @5y !7d =5s"

"read notes get job" is written as "+3b !4d =5s %3t"

6. Which of the following code is for 'gamesup'?

- A. @6l
- B. &3d
- C. %7p
- D. *5n
- E. None of these

7. According to the above information, code '!7d' is used for?

- A. study
- B. exam
- C. related
- D. notes
- E. read

8. What will be the code for "exam gamesup sbi job"?

- A. +3b #4m %7p =5s
- B. %3t @6l @5y !7d
- C. %7p +3b #4m @3i
- D. !4d \$3r @6l &3d
- E. None of these

9. According to the coding, what will be the code for 'banking'?

- A. @7g
- B. &7h
- C. \$7t
- D. one of these
- E. can't say

10. What will be the code for 'probationary'?

- A. \$12y
- B. %11n
- C. ^12y
- D. *13t
- E. #12p

Solution

The number in each code is the number of letters in a word. The alphabet is the last letter of the word. The symbol is unique, and is based on the starting letter of the word. For eg, the code for 'login' is '*5n' - * for all words starting with l, n because it is the ending letter and 5 is the total number of letters.

- 6. C
- 7. C
- 8. C
- 9. E
- 10. C

Set 3

In a certain code language

"login gardens and check" is coded as "\$4e %4g #2n @6d"

"roads article study there" is coded as "@6i #4u \$4e %4a"

"comment about your doubt" is coded as "\$4u @4o %6m #4u"

"get clear exams enjoy" is coded as "@4e #4a \$4j %2e"

11. What is the code for 'exams'?

- A. @4e
- B. #4a
- C. \$4j
- D. %2e
- E. None of these

12. What is the code for 'study'?

- A. \$4e
- B. #4u
- C. %4a
- D. @6i
- E. None of these

13. What is the code for 'about'?

- A. %6m
- B. \$4u
- C. @4o
- D. #4u
- E. None of these

14. If we code "study gardens clear exams" as per the above coding method, what will be the code?

- A. \$6u %4d #4a @4e
- B. %4u #4e @6d \$4a
- C. @4e \$6d #6e %4a
- D. #6d @4u @4e %4m
- E. None of these

15. What is the code for 'comment'?

- A. %6m
- B. \$4u
- C. @4o
- D. #4u
- E. None of these

Solution

The digit in the code is (number of letters in the word - 1). The alphabet in code is the middle alphabet in the word. The symbol is unique - 1st word is coded with symbol %, 2nd word with @, 3rd word with # and 4th word with \$.

- 11. B
- 12. B
- 13. C
- 14. B
- 15. A

Set 4

In a certain code,

“RING MONEY BAN JAR” is written as ‘24#G, 7%Y, 16\$N, 12@R’

“JAM ROUND BAT MONDAY” is written as ‘17@M, 28#D, 10\$T, 8%Y’

“MOUNTAIN BEAR RANDOM JUMP” is written as ‘21%N, 13\$R, 20#M, 15@P’

“RADIO JOKE BANGLE MUD” is written as ‘17#O, 26@E, 28\$E, 26%D’

16. What is the code for BAN?

- A. 7%Y
- B. 17@M
- C. 21%N
- D. 10\$T
- E. None of these

17. What is the code for RING?

- A. 24#G
- B. 17@M
- C. 21%N
- D. 12@R
- E. None of these

18. In this code language, what would be the code for MAGNUS?

- A. 20#M
- B. 17@S
- C. 14%S
- D. 10\$T
- E. None of these

19. In this code language, what would be the code for MAN?

- A. 7%Y
- B. 17@M
- C. 21%N
- D. 13%N
- E. None of these

20. In this code language, what would be the code for JACKET?

- A. 7%Y
- B. 17@M
- C. 21%N
- D. 10\$T
- E. None of these

Solution

The alphabet in the code is the ending alphabet of the word. Now, you can see that the number in the code is large compared to previous questions. Therefore, we can safely conclude that the number in code is not the number of digits in the word. It is (No. of letters in word + Reverse place value of last alphabet). For eg, 24#G is the code for RING. Place value of G is 7th. Reverse place value is 20th. So, number = 20 + 4 (as there are 4 letters in RING). The symbol in code is same for words starting with same letter.

- 16. E
- 17. A
- 18. C
- 19. D
- 20. E

Alphabet	Ascending Order	Descending Order
A	1	26
B	2	25
C	3	24
D	4	23
E	5	22
F	6	21
G	7	20
H	8	19
I	9	18
J	10	17
K	11	16
L	12	15
M	13	14
N	14	13
O	15	12
P	16	11
Q	17	10
R	18	9
S	19	8
T	20	7
U	21	6
V	22	5
W	23	4
X	24	3
Y	25	2
Z	26	1

Set 5

In a certain code language,

'CAT DONKEY FAN EARTH' is written as "*1@7, !1&9, ~1@1, #0%3"

'COW DULL FOREST ELBOW' is written as "*2@0, #1%8, !0^8, ~1&4"

'CAN DOORS FOUR ELEVEN' is written as "~1^4, !1%4, *1@1, #0&8"

'FAMILY CAR EAGER EGG' is written as "#0@4, *1@5, ~1&9, #1%3"

21. What is the code for CAT?

- A. *1@7
- B. !1&9
- C. ~1@1
- D. 10\$T
- E. None of these

22. What is the code for FOUR?

- A. *1@7
- B. "~1^4
- C. ~1@1
- D. 10\$T
- E. None of these

23. What is the code for EGG?

- A. *1@7
- B. #0@4
- C. ~1@1
- D. #1%3
- E. None of these

24. What is the code for EAGER?

- A. *1@7
- B. #0@4
- C. ~1@1
- D. #1%3
- E. None of these

25. What is the code for CAN?

- A. *1@7
- B. !1&9
- C. ~1@1
- D. *1@1
- E. None of these

Solution

First Position – symbol denotes first letter Eg. (F - ~, C - *, D - !, E - #)

Third Position – symbol denotes total number of words Eg. (6 letter word – &)

Second & Fourth position = Alphabet order of last letter – Number of letters. For eg, for the word FAMILY, $(25 - 6) = 19$; So, Second position – 1; Fourth position – 9. Code is ~1&9.

- 21. A
- 22. B
- 23. B
- 24. D
- 25. D

Set 6

In a certain code language,

'Ajay like Batman movies' is written as '@Y4, \$E4, &N6, #S6'

'Vidya loves bowling sport' is written as '%T5, \$S5, &G7, *A5'

'ISRO launched Mars mission' is written as '\$D8, #N7, !O4, #S4'

'Visual basic language support' is written as '&C5, \$E8, %T7, *L6'

26. The code for the word 'Mars' is?

- A. @M4
- B. %E6
- C. #S4
- D. @R4
- E. None of these

27. The code '*A5' denotes which of the following word?

- A. Vidya
- B. loves
- C. Sport
- D. Bowling
- E. None of these

28. The code word of 'ISRO' is

- A. @R4
- B. !O4
- C. @M4
- D. #A3
- E. None of these

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29. '#' denotes which letter of the given words?

- A. S
- B. B
- C. A
- D. M
- E. I

30. According to the given code word, what will be the code for 'Vidya loves visual mars'?

- A. *4A &4E @5H %6S
- B. #S4 *L6 \$S5 *A5
- C. *4A &4E #5H %6S
- D. *4A &4E \$5H %6S
- E. None of these

Solution

1st element is symbol that represents first letter of the word.

Middle element is the last letter of the word.

Last element is the number of letters in the word.

- 26. C
- 27. A
- 28. B
- 29. D
- 30. B

Set 7

In a certain number system there are only two notations to represent numbers:

@ and &.

0 is represented by @ and 1 by &. The subsequent numbers are represented in the following manner:

2 is represented as &@,

3 is represented as &&,&

4 is represented as &@@,&

5 is represented as &@& and so on.

Based on this coded language, answer the following questions.

31. Find the odd one out from the below.

- A. @&&
- B. &@&
- C. &&@
- D. &&&
- E. None of these

32. What is "&@&@" % of "&@&@@@"?

- A. @@@
- B. &@
- C. &@@
- D. @&&
- E. &&&

33. If &@@ is related to &@ in a particular mathematical way, then which of the following pairs hold the same relation?

- A. &@&&, &@&
- B. &&@&, &&&
- C. &&@&&, &@&
- D. &&@@&, &@&
- E. None of these

34. Which among the following is the multiple of &@&?

- A. &@@@@&
- B. &@&@@
- C. &&@@@@
- D. @@@&
- E. None of these

35. Find the sum of even numbers from &&@ till &@&@.

- A. @@&&@
- B. @&@&@
- C. &&@@@@
- D. &&@&@
- E. None of these

Solution

All numbers are represented with 0s and 1s.

2 → 10 (that is, $0 \times 2^0 + 1 \times 2^1$)

3 → 11 (that is, $1 \times 2^0 + 1 \times 2^1$)

4 → 100 (that is, $0 \times 2^0 + 0 \times 2^1 + 1 \times 2^2$)

5 → 101 (that is, $1 \times 2^0 + 0 \times 2^1 + 1 \times 2^2$)

31. Based on the logic, checking options one by one,

A. @&& = 011 = 3

B. &@& = 101 = 5

C. &&@ = 110 = 6

D. &&& = 111 = 7

110 is the only even number, and hence answer is **Option C**

32. &@&@ = 1010 = 10

&@&@@@ = 101000 = 40.

10% of 40 = 4 = &@&. Answer is **Option C**.

33. Option D

34. Option B

35. Option C

Set 8

In a certain code language,

'Students needs more placements' is coded as 't5m t10o f4l t8r'

'Pakistan win the match' is coded as 'o3v i5l f3s o8o'

'Practice makes perfect man' is coded as 'u7o f8o o3l t5l'

36. What is the code for "toys makers" in the above code language?

A. r4t t6l

B. s4r l6t

C. t4s t6l

D. s4t t5l

E. None of these

37. What is the code for "property"?

A. x7o

B. z8o

C. w8o

D. z8m

E. None of these

38. Which of the following is the exact code for “place for give respect”?

- A. f5o r3s f4f u3r
- B. g3h h5m f4f v7q
- C. u7q f4f s3e f5o
- D. u7r f04e s3e f5o
- E. cannot be determined

39. Which of the following is code for “pleasure”?

- A. f8o
- B. o8m
- C. r7q
- D. f8q
- E. d80

40. In given code language, what does the code “u5q e6o f4f” stands for?

- A. right more played
- B. right game played
- C. maths easy subject
- D. very sense thing
- E. played game thing

Solution

Number – Number of letter count

1st letter – Last letter + 1

Last letter – First letter - 1

- 36. C
- 37. B
- 38. C
- 39. A
- 40. B

Set 9

In a certain code language,

'Picture worth thousand words' is coded as 'xi6 ue9 xt6 qf8'

'watched pot never boil' is coded as 'qu4 os6 xe8 ct6'

'Beggars can't be choosers' is coded as 'ct8 dt9 du5 cf3'

41. What is the code for "island"?

- A. jd6
- B. jf6
- C. he7
- D. je7
- E. None of these

42. What may be the code for "vigorous"?

- A. ut8
- B. ut9
- C. wt9
- D. wt8
- E. None of these

43. "Grass is always greener" will be coded as?

- A. hs8 jt3 ht6 bt7
- B. ht5 ht7 js3 bs8
- C. bt7 jt4 hs8 ht5
- D. bs7 ht6 hs8 jt3
- E. None of these

44. How is "beggars" coded in the language?

- A. ct8
- B. dt9
- C. cf3
- D. du5
- E. None of these

45. How "choosers choice" will be coded in the language?

- A. df6 dt8
- B. dt9 df7
- C. dt9 df8
- D. df9 dt7
- E. None of these

Solution

Ex: 'Picture' coded as 'qf8'

'q' – first letter + 1 (i.e. p+1=q)

'f' – last letter + 1 (i.e. e+1=f)

'8' Number of letters in the word Picture +1

41. D

42. C

43. A

44. A

45. B

Set 10

In a certain code language,

'do not roam across vidya' is written as '@M4, #S6, \$T3, &A5, %O2'

'not to dive taxes around' is written as '#D6, \$T3, *S5, *O2, %E4'

'ajay want mixed ice-cream' is written as '!T4, +D5, ?M8, #Y4'

'ankush thliya taxes intern' is written as '*A6, ?N6, #H6, *S5'

46. The exact code word of 'Ankush' is?

A. @H6

B. \$N6

C. #G5

D. #H6

E. Can't say

47. According to the given code word, what will be the code for 'vidya want to taxes intern'?

A. *S5, ?N6, *O2, &A5, !T4

B. *4A, &4E, !5H, %6S, \$N6

C. *4A, &4E, #5H, %6S, \$N6

D. %4A, &4E, !5H, %6S, \$N6

E. #4A, &4E, #5H, %6S, \$N6

48. The code for the word 'Ajay' is?

A. \$T4

B. %Y5

C. #A4

D. #Y4

E. None of these

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49. The code '*K8' denotes which of the following word?

- A. Tickbook
- B. Tesla
- C. Katherine
- D. Kanetool
- E. Prototype

50. The code word of 'taxes' is ?

- A. #E4
- B. *S5
- C. #S6
- D. #A3
- E. None of these

Solution

1st element is symbol that represents first letter of the word.

Middle element is the last letter of the word.

Last element is the number of letters in the word.

- 46. D
- 47. A
- 48. D
- 49. A
- 50. B

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