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Expected Coding Decoding Questions for IBPS Clerk Mains Exam

Direction1-5: Study the following information carefully and answer the given question:

A word and number arrangement device when given an input line of words, rearranges them following a particular pattern in each step. The following is an illustration of input and rearrangement.

Statements	Step 1	Step 2	Step 3	Step 4
see more be main	ees remo be inma	33t s4n4 c2 4on4	%%1 2&& 1& &2&	%%% &&& %& &&&
cold particular when and	ldco arparticul enwh nda	med4 10sq10su10d10m 4oxi oe3	3& &6&&& &3 2%	%& &&&&& &% &%
bat hat input words	atb ath utinp dswor	3uc 3ui 5u5oq etx5s	%2 %2 %3% 4%	%& %& %%% &%

1. What is the step 2 of the given following statement?
Statement- blue gone white
a. 44cm o4h4 u5xi5
b. 3ui 5u5oq etx5s
c. s4n4 c2 4on4
d. 4oxi oe3 etx5s
e. None of these

2) What is the 3rd word of the 3rd step of the following statement from right?

Statement: - injury even dog girl
a. 2%&
b. 3&&
c. &2&
d. &2%
e. None of these

3) What is the 3rd word step 4 of the given following statement?
Statement: - particular when and
a. &%

b. &&

c. %%

d. %&

e. None of these

4) What is 2nd word of the 1st step of the following statement?

Statement: - game win month

a. inw

b. nwi

c. win

d. either a or b

e. None of these

5) What is 3rd word of the 2nd step of the following statement?

Statement: - hat input words

a. sw5r

b. 5u5oq

c. etx5s

d. either a or b

e. None of these

Direction6-10: Study the following information carefully and answer the given question:

A word and number arrangement device when given an input line of words, rearranges them following a particular pattern in each step. The following is an illustration of input and rearrangement.

Statements	Step 1	Step 2	Step 3	Step 4
White gone bad	Wht gn bd	w8t g14 b4	2@ 1@ 1@	@@ #@ #@
Red turns blue	Rd trns bl	r4 t18ns b12	1@ 3@ 1@	#@ #@ #@
Black eyes true	Blck ys tr	b12ck y19 t18	3@ 1# 1@	#@ ## #@

6. What is the step 1 of the given following statement?

Statement- brown pram gone

a. Brwn prm gn

b. bron prm gon

c. orwn parm gen

d. Brwn pram gne

e. None of these

7) What is the 2nd word of the 4th step of the following statement?

Statement: - white elephant blue

a. @@

b. #@

c. ##

d. #@

e. None of these

8) What is the 3rd word of the step 2 of the given following statement?

Statement: - notebook turns yellow

a. y12lw

b. yl12w

c. yll23

d. 25llw

e. None of these

9) What is 1st word of the 1st step of the following statement?

Statement: - raju wants car

a. rj

b. rau

c. rju

d. either a or b

e. None of these

10) What is 4th word of the 3rd step of the following statement?

Statement: - kids playing football daily

a. 2@

b. 4@

c. 4#

d. 2#

e. None of these

Direction 11-15: Study the following information carefully and answer the given question:

A word and number arrangement device when given an input line of words, rearranges them following a particular pattern in each step. The following is an illustration of input and rearrangement.

Statements	Step 1	Step 2	Step 3	Step 4
Eat healthy food	Fbs gfbksgx eppc	F21 gfbks31 ep19	1& 5& 2&	&& &7 $&
Play strong daily	Okbx rsqpmf cbjkx	Ok26 rsqp19 cbj35	2$ 4& 3&	$& $& &&
Love each other	Kpuf fbbg psgfq	Kp27 gb9 psg23	2& 2& 3&	$& $& &&

11. What is the step 3 of the given following statement?

Statement- square are circle

a. 4& 1& 4&

b. 4$ 1& 4&

c. 4$ 1& 4$

d. 4& 1$ 4&

e. None of these

12) What is the 1st word of the 1st step of the following statement?

Statement: - learn again

a. Kfbqm

b. Kfbrm

c. Kfbqn

d. Kebqm

e. None of these

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13) What is the 2nd word of the step 2 of the given following statement?
Statement: - gone high
a. Fp19
b. gj13
c. gj12
d. gk13
e. None of these

14) What is 2nd word of the 4th step of the following statement?
Statement: - Only drive
a. &$

b. $$
c. &&
d. either a or b
e. None of these

15) What is 1st word of the 2nd step of the following statement?
Statement: - party hard
a. Obq43
b. Ocq43
c. Obr43
d. Ocr43
e. None of these

Directions 16-20: Study the following information carefully and answer the questions given below.
In a certain language,
'CLIPS REFINE APPRECIATE MASSAGE' is coded as '13#FI 8##S 16I 4###EC'
'EFFORTS RECRUITMENT MIND SOULFUL' is coded as '7##L 2###I 9IN 14#O'
'STUDIO LOTION RETRIBUTE REQUIRED' is coded as '4UD 13###I 14##UI 2#TI'
'MODULE MOVEMENT ANCIENT MATTER' is coded as '19I 5#TT 7##EM 8DU'

16) What is the code for 'MOISTURISER'?
a. 13#U
b. 5###U
c. 8##U
d. 5###TU
e. None of these

17) 'ROTATING' is coded as?
a. 9#AT
b. 9##T
c. 11#AT
d. 11##AT
e. None of these

18) Which of the following word is coded as '1##M'?
a. SUPERMARKET

b. STUPIDITY
c. SUMMARY
d. FAILURE
e. None of these

19) MOVEMENT is coded as?
a. 19I
b. 5#TT
c. 7##EM
d. 8DU
e. None of these

20) EFFORTS is coded as?
a. 7##L
b. 2###I
c. 9IN
d. 14#O
e. None of these

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Directions 21-25: Study the following information carefully and answer the questions given below.

In a certain language,

"Some parts are tough" is coded as "O#5, O&8, A%19, R@5",

"Search all the persons" is coded as "E#8, H&5, E%19, L@12",

"Some truths are personal" is coded as "R@5, O#5, R&19, E%12",

"Always prepare the sandwich" is coded as "H&5, A#8, L@19, R%5,"

21) What is the code for "TALENT"?
a. A&20
b. S&4
c. A@4
d. S@20
e. None of these

22) Which of the following statements is true?
a. KEPT THERE is coded as K%12, H&6
b. PALACE is coded as A%5
c. SKEPTICAL is coded as K#5
d. HAPPY ALRIGHT is A@12, A@20
e. None of these

23) What is the code of the sentence "ALONE PRAYER STRUGGLE"?
a. R%18, E%19, T@5

b. L@5, P%18, S#5
c. L@5, R%18, T#5
d. T#5, R@18, L@5
e. None of these

24) What is code for "personal"?
a. R@5
b. O#5
c. R&19
d. E%12
e. None of these

25) Which letter is coded as the code for R&19?
a. Some
b. truths
c. are
d. personal

Direction 26-30: Study the information carefully answers the questions given below.

In a coded language D, E, F, +, ^, ~ are represented by 6, 12, 10, 4, 7 and 2 respectively. When any two symbols used together then one of them represent hour hand and another represent minute hand in a clock.

For e.g

D ~ is represents 6:10 AM in clock.

^ F is represents 7:50 AM in clock.

Note - Consider all time at AM unless stated.

26) Sanjay starts walking at + F and goes to park and come back to home at D^. How much time Sanjay took in this period?
a. 112 min
b. 113 min
c. 115 min
d. 110 min
e. 105 min

27) Renu start listening song at F + and listens until E ^. How much time she thinks she spend in listening songs?
a. 2 hour 15 minutes
b. 2 hour 18 minutes
c. 3 hour 14 minutes
d. 3 hour 17 minutes
e. None of these

28) A Fashion show is scheduled at ^ F the Manager is required to reach at least 90 mins early so that it looks all the arrangements and schedule everything at the show. At what time should he reach?
a. F^

b. D+
c. +D
d. ~E
e. Data inadequate

29) A washing machine takes 100 minutes to be Wash and Dry clothes completely at what time should Sneha start the machine so that it is wash and Dry clothes at the time when she wants the cloth to wear and she wants the cloth to wear at +D?
a. D~
b. ^+
c. F+
d. DE
e. ~F

30) If the Program start at ~^ but dancer reaches 120 minutes late. At what time does she reach?
a. ^~
b. +F
c. +^
d. D+
e. E~

Directions 31-35: Answer the following questions based on the information given below:
In a code language,
"Centre solution jump migrate" is coded as "12&15, 7$4, 13%10, 14@17"
"Public tackle sincere here" is coded as "18@21, 14$17, 3#0, __(1)__"
"Silence not corner hopeful" is coded as "12$15, 16&19, 18&21, 20&23"
"Run mobile __(2)__ situation" is coded as "18#21, 20$23, 2&5, 14%17"

31) Which among the following code comes in place of (1)?
a. 3%6

b. 2%5
c. 6@9
d. 5$8

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e. 4$7

32) Which among the following word comes in place of (2)?

a. since
b. timely
c. horticulture
d. garden
e. covers.

33) Which among the following is correctly matched?

a. Picnic – 3&0
b. Hungama – 17%14
c. Lover – 22&25
d. Pointer – 10&13
e. Quite – 9&12

34) Which of the following is the code for "hopeful"?

a. 12$15
b. 16&19
c. 18&21
d. 20&23
e. None of these

35) Which of the following is the code for "migrate"?

a. 12&15
b. 7$4
c. 13%10
d. 14@17
e. None of these

36-40) Direction: In each of the question given below, a group of digits/letter is given followed by four combinations of symbols numbered (1), (2), (3) and (4). You have to find out which of the four combinations correctly represents the group of digits/letters based on the symbol codes and the conditions given below. If none of the four combinations represents the group of digits correctly, give (5) i.e., none of these as the answer.

Digit	3	8	9	7	4	6	1	2	5
Symbol	#	%	@	$	*	€	©	µ	£

Conditions for coding the group elements:

(i) If the first digit is even and the last digit is divisible by 3, then both are to be coded as X.

(ii) If the first, as well as the last digit, is odd, then both are to be coded by the code of the first digit.

(iii) If the first digit is odd and the last digit is even number, then the code of the first and last digit is to be interchanged.

(iv) If even number is followed by perfect square, then the code of the perfect square is same as the code of that even number. (1 is counted as perfect square)

Note: If two conditions follows at the same time, apply condition in consecutive order i,e condition iv is followed after applying condition I or ii or iii

36) What is the code for "29548"?
a. @ % µ * $
b. µ µ £ * %.
c. * © € $ #
d. $ @ % µ *
e. None of these

37) What is the code for "18537"?
a. © € $ # $
b. € $ # * %
c. © € $ # *
d. © % £ # ©
e. None of these

38) What is the code for "41359"?
a. X © # £ @
b. * © µ € %
c. ©© # £ X

d. * # % € X
e. None of these

39) What is the code for "61348"?
a. $ * % € $
b. € € # * %.
c. @ µ € © %
d. $ * # % €
e. None of these

40) What is the code for "74523"?
a. $*£ µ $.
b. %*£ µ $.
c. $*£ % $.
d. $*£ %%
e. None of these

41-45) Directions: In a certain number system there are only two notations to represent numbers: A and B. 0 is represented by A and 1 by B. The subsequent numbers are represented in the following manner:

2 is represented as BA,
3 is represented as BB,
4 is represented as BAA,
5 is represented as BAB and so on.
Based on this coded language, answer the following questions.

41) Which of the following is the sum of AABBAA and ABABAB?
a. BAAAAB
b. BAABAB
c. BAAABB
d. BBAAAB
e. None of them

42) What is the resultant if BAAAAA is divided by BAAA?

a. BA
b. BAA
c. BB
d. BBA
e. BBB

43) Which of the following is the average of BBBB and BBBBB?
a. 22
b. 18
c. 25

d. 23

e. None of these

44) What is the cube of 20% of BBBB?

a. BBBAB

b. BBBBA

c. BBBAA

d. BBABB

e. None of them.

45) Which of the following is a multiple of BABB?

a. BBABA

b. BBBAA

c. BABAB

d. BBBBA

e. BABBA

46-50) Directions: Answer the following questions based on the information given below:

In a code language,

"PREACH ENLARGE BOARD TOUCHING" is coded as "O5*H, R3$E, R4%I, G4&F"

"OFFICE THICK KINGDOM SAVER" is coded as "E3$S, C4$L, O5&N, F3%F"

"HOSTILE DONE STITCH PAID" is coded as "L4&F, O2#F, A2#E, T5%I"

"EMOTION APART PASTE SULPHAT" is coded as "A5&U, T3$F, O3&O, R3$U"

46) What would be the word for 'N4&U'?

a. PROMINENT

b. EMINENT

c. UBUNTU

d. PRESENT

e. None of these.

47) What is the code for "CLEARED EXAM"?

a. E4&E X2#N

b. E4&D A2%N

c. G5&E X3#N

d. E4&F X4#O

e. None on these

48) What is the code for 'AUGUST'?

a. S3%U

b. U6$R

c. U3%U

d. S5&U

e. None of these.

49) What is the code for "KINGDOM"?

a. E3$S

b. C4$L

c. O5&N

d. F3%F

e. None of these

50) What is the code for "COLD CITY"?

a. I3#Z O3#E

b. I3@Z O3@E

c. O3&Z I3&E

d. O3#Z I3@E

e. None of these

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Answers with Detailed Explanation

Solution (1-5)
1. A
2. C
3. A
4. A
5. C

Solution 1

The pattern followed here is,

In step 1 →

Last two alphabets of every word are placed in front.

Example: see, "ee" will come in front of the word and all will become "ees".

Step 2 →

Consonants are replaced by the next letter of English alphabetical series.

Vowels are replaced by the number of letters present in that word.

Example: more, m → n, r → s, e→ 4, o→ 4

More- s4n4

Step 3 →

In place of alphabets, number of alphabets present in that word are taken.

In place of odd number → %

In place of even number → &

Example: s4n4

4→ &, n, s→ 2, 4→ &

Step 4: 2&&

Symbols are kept same, but numbers are replaced.

Odd number → %

Even number → &

Sentence: blue gone white

Applying conditions:

Statements	Step 1	Step 2	Step 3	Step 4
blue gone white	Uebl nego tewhi	44cm o4h4 u5xi5	&&2 2&& 3%%	&&& &&& %%%

Hence in second step blue gone white is coded as 44cm o4h4 u5xi5

Solution 2

Applying conditions:

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Statements	Step 1	Step 2	Step 3	Step 4
Injury even dog girl	Ryinju ehev ogd rlgi	S66ok6 4o4w 3he smh4	3&&& &2& %2 3&	%&&& &&& %& %&

Hence &2& is correct answer

Solution 3

Applying conditions:

Statements	Step 1	Step 2	Step 3	Step 4
particular when and	arparticul enwh nda	10sq10su10d10m 4oxi oe3	&6&&& &3 2%	&&&&& &% &%

Hence &% is correct answer

Solution 4

Applying conditions:

Statements	Step 1	Step 2	Step 3	Step 4
game win month	mega inw thmon	n4h4 3ox uin5o	2@@ #2 4#	@@@ @@ @#

Hence inw is correct answer

Solution 5

Applying conditions:

Statements	Step 1	Step 2	Step 3	Step 4
bat hat input	ath utinp dswor	3ui 5u5oq etx5s	%2 %3% 4%	%& %%% &%

Hence etx5s is correct answer

Solution 6-10

6. A
7. A
8. A
9. A
10. A

The pattern followed here is,

In step 1 →

Vowels are eliminated from the word and only consonants are written.

Example: White, will become wht as I and e are vowels and they are eliminated

Step 2 →

The second letter of the changed is changed to numerical position

Example: wht, h numerical position is 8 so "wht" is coded as "w8t" and rest letters will be kept same

Step 3 →

In place of alphabets, number of alphabets present in that word is taken.

In place of odd number → #

In place of even number → @

Example: w8t

8→ @, w, t→ 2,

W8t→2@

Step 4: 2@

Symbols are kept same, but numbers are replaced.

Odd number → #

Even number → @

Sentence: brown pram gone

Applying conditions:

Statements	Step 1	Step 2	Step 3	Step 4
brown pram gone	Brwn prm gn	B18wn p18m g14	3@ 2@ 1@	#@ @@ #@

Hence in first step brown pram gone is coded as Brwn prm gn

Solution 7

Applying conditions:

Statements	Step 1	Step 2	Step 3	Step 4
white elephant blue	Wht lphnt bl	W8t l16hnt b12	2@ 4@ 1@	@@ @@ #@

Hence @@ is correct answer

Solution 8

Applying conditions:

Statements	Step 1	Step 2	Step 3	Step 4
notebook turns yellow	Ntbk trns yllw	N20bk t18ns y12lw	3@ 3@ 3@	#@ #@ #@

Hence y12lw is correct answer

Solution 9

Applying conditions:

Statements	Step 1	Step 2	Step 3	Step 4
raju wants car	Rj wnts cr	R10 w14ts c18	1@ 3@ @	#@ #@ #@

Hence Rj is correct answer

Solution 10

Applying conditions:

Statements	Step 1	Step 2	Step 3	Step 4
kids playing football daily	Kds plyng ftbll dly	K4s p12yng f20bll d12y	2@ 4@ 4@ 2@	@@ @@ @@ @@

Hence 2@ is correct answer

Solution 11-15

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

The pattern followed here is,

In step 1 →

Vowels will be +1

Consonants will be -1

Example: healthy, will become gfbksgx

Step 2 →

The last two letters of the word are changed to sum of their numerical position

Example: gfbksgx, "g and x" numerical position is 7 and 24 so 7+24=31 so gfbksgx is coded as "gfbks31" and rest letters will be kept same

Step 3 →

In place of alphabets, number of alphabets present in that word is taken.

In place of odd number → &

In place of even number → $

Example: gfbks31

31→ &,

g, f, b, k, s→ 5,

gfbks31→ 5&

Step 4: 5&

Symbols are kept same, but numbers are replaced.

Odd number → &

Even number → $

Sentence: square are circle

Applying conditions:

Statements	Step 1	Step 2	Step 3	Step 4
square are circle	Rpvbqf bqf bjqbkf	Rpvb23 b23 bjqb17	4& 1& 4&	$& && $&

Hence in 3rd step square are circle is coded as 4& 1& 4&

Solution 12

Applying conditions:

Statements	Step 1	Step 2	Step 3	Step 4
learn again	Kfbqm bfbjm	Kfb30 bfb23	3$ 3&	&$ &&

Hence Kfbqm is correct answer

Solution 13

Applying conditions:

Statements	Step 1	Step 2	Step 3	Step 4
gone high	Fpmf gjfg	Fp19 gj13	2& 2&	$& $&

Hence gj13 is correct answer

Solution 14

Applying conditions:

Statements	Step 1	Step 2	Step 3	Step 4
Only drive	Pmkx cqjuf	Pm35 cqj27	2& 3&	$& &&

Hence && is correct answer

Solution 15

Applying conditions:

Statements	Step 1	Step 2	Step 3	Step 4
party hard	Obqsx gbqc	Obq43 gb20	3& 2$	&& $$

Hence Obq43 is correct answer

Solution 16-20

    16.   B
    17.   C
    18.   A
    19.   C
    20.   D

The coding language used to code the given sentences should be decoded in three steps.

Step I: The first element of the code is the difference in the alphabetic positions of first and the last alphabets of the word.

Step II: The second element of the code is the symbol on the basis of the number of pairs of same letters in the words.

For 1 pair = #

For 2 pairs = ##

For 3 pairs = ###

Step III: The third element of the code is the middle alphabet/alphabets of the word.

For example,

APPRECIATE is coded as '4###EC'

Difference of A and E = 5 – 1= 4

Three pairs (AA, EE, PP) = ###

EC are the middle alphabets.

Solution 21-25

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

From the above statements, we can see that each statement contains words whose first alphabets are A, P, T and S. Also, each code contains symbols among @, %, &, #. So, we conclude that the word which starts from A has '@' symbol, P has '%' symbol, T has '&' symbol and S has '#' symbol. Second alphabet of the word from the left is written as first, then symbol and then the position of last alphabet of the words.

For example, first letter of the word 'SEARCH' is S, so we would use # symbol. Second letter of the word is E. Position of the last letter i.e. H, in the word according to alphabetical series is 8. So, 'SEARCH' is coded as 'E#8'.

Solution 26-30

    26.E
    27.A
    28.B
    29.E
    30.C

Symbol / Letter	D	E	F	+	^	~
Code	6	12	10	4	7	2

Sanjay starts walking at + F means 4:50 AM.

He reached back home at D ^ means 6:35 AM.

Hence, Time taken by Sanjay in this period is 6:35 - 4:50 = 105 minutes.

Solution 27

Symbol / Letter	D	E	F	+	^	~
Code	6	12	10	4	7	2

Renu starts listening song at F + means 10:20 AM

She listens until it is E ^ means 12:35 PM

Hence, Renu spends time in listening songs is 12:35 PM - 10:20 AM = 2 hours 15 minutes.

Solution 28

Symbol / Letter	D	E	F	+	^	~
Code	6	12	10	4	7	2

Scheduled time of fashion show ^ F means 7:50 AM

90 mins early means 6:20 AM i.e. D+.

Hence, the manger should reach at D+.

Solution 29

Symbol / Letter	D	E	F	+	^	~
Code	6	12	10	4	7	2

She wants the cloth to wear at +D means 04:30 AM.

04:30 AM - 100 min = 2:50 AM i.e. ~F.

Hence, Sneha starts the washing machine at ~F.

Solution 30

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Symbol / Letter	D	E	F	+	^	~
Code	6	12	10	4	7	2

The Program starts at ~^ means 2:35 AM.
Dancer reaches 120 minutes late means; 2:35 + 120 = 04:35 AM i.e. +^.
Hence, worker reaches at +^.

Solution 31-35
31.B
32.D
33.C
34.B
35.B

In each code, then number before the symbol is the value of the 3rd letter (from the left end) of the word in the alphabetical series.

The symbol in the code is as per the vowel which is 2nd letter from the left end in each word:
a. For vowel "A", the symbol used is #
b. For vowel "E", the symbol used is @
c. For vowel "I", the symbol used is $
d. For vowel "O", the symbol used is &
e. For vowel "U", the symbol used is %

If the number representing the 3rd alphabet in alphabetical series from left end is an even number, then that even number is added by 3 and the obtained number is the number after the symbol.

If the number representing the 3rd alphabet in alphabetical series from left end is an odd number, then the difference of odd number and 3 and the obtained number is the number after the symbol.

Example:
'CENTRE'

3rd letter (from the left end) of the word is N, its value in alphabetical series is 14, so 14 is the number before the symbol.

2nd letter from the left end of the word is E, so the symbol used is @.

As the number representing 3rd alphabet from left end is 14 (an even number), so the number after the symbol is (14 + 3)=17.

Therefore, the code for 'CENTRE' is '14@17'.

Solution 36-40

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

Digit	3	8	9	7	4	6	1	2	5
Symbol	#	%	@	$	*	€	©	μ	£

Conditions for coding the group elements:

If even number is followed by perfect square, then the code of the perfect square is same as the code of that even number.

so the required code for 29548 is μ μ £ * %.

Solution 37

Digit	3	8	9	7	4	6	1	2	5
Symbol	#	%	@	$	*	€	©	μ	£

Conditions for coding the group elements:

(ii). If the first as well as the last digit is odd, then both are to be coded by the code of the first digit.

By using condition (ii), the code for 18537 is © % £ # ©.

Solution 38

Digit	3	8	9	7	4	6	1	2	5
Symbol	#	%	@	$	*	€	©	μ	£

Conditions for coding the group elements:

(i). If the first digit is even and the last digit is divisible by 3, then both are to be coded as X.

(iv) If even number is followed by perfect square, then the code of the perfect square is same as the code of that even number.

By using condition (i) and (iv), the code for 41359 is **©© # £ X**

Solution 39

Digit	3	8	9	7	4	6	1	2	5
Symbol	#	%	@	$	*	€	©	μ	£

Conditions for coding the group elements:

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(iv) If even number is followed by perfect square, then the code of the perfect square is same as the code of that even number.

Clearly, the code for 61348 will be € € # * %.

Solution 40

Digit	3	8	9	7	4	6	1	2	5
Symbol	#	%	@	$	*	€	©	µ	£

Conditions for coding the group elements:

(ii). If the first as well as the last digit is odd, then both are to be coded by the code of the first digit.

By using condition (ii), the code for 74523 is $*£ µ $.

Solution 41-45

    41.A

    42.B

    43.D

    44.D

    45.E

Logic:

So AABBAA → 001100

So, the equivalent decimal of 001100 is

$(0 \times 2^0) + (0 \times 2^1) + (1 \times 2^2) + (1 \times 2^3) + (0 \times 2^4) + (0 \times 2^5)$

= 0 + 0 + 4 + 8 + 0 + 0

= 12

And ABABAB → 010101

So, the equivalent of 010101 is

$(1 \times 2^0) + (0 \times 2^1) + (1 \times 2^2) + (0 \times 2^3) + (1 \times 2^4) + (0 \times 2^5)$

= 1 + 0 + 4 + 0 + 16 + 0

= 21.

The sum is 12 + 21 = 33

And the binary equivalent of 33 is

33 = 32 + 1 → 100001.

And by the notations, it is BAAAAB.

Hence, BAAAAB is the correct answer.

Solution 42
Logic:

BAAAAA → 100000

The decimal equivalent of 100000 is

$(0 \times 2^0) + (0 \times 2^1) + (0 \times 2^2) + (0 \times 2^3) + (0 \times 2^4) + (1 \times 2^5)$

= 0 + 0 + 0 + 0 + 0 + 32

= 32

And BAAA → 1000

The decimal equivalent of 1000 is

$(0 \times 2^0) + (0 \times 2^1) + (0 \times 2^2) + (1 \times 2^3)$

= 8

= 0 + 0 + 0 + 8

= 8

So, 32/8 = 4.

And the binary equivalent of 4 is 4 + 0 + 0 → 100 → BAA.

Hence, BAA is the correct answer

Solution 43

Logic:

BBBB → 1111 which is the binary equivalent of

$(1 \times 2^0) + (1 \times 2^1) + (1 \times 2^2) + (1 \times 2^3) =$

1 + 2 + 4 + 8 = 15.

BBBBB → 11111 which is the binary equivalent of

$(1 \times 2^0) + (1 \times 2^1) + (1 \times 2^2) + (1 \times 2^3) + (1 \times 2^4)$

1 + 2 + 4 + 8 + 16 = 31

15 + 31 = 46

46/2 = 23

Hence, 23 is the correct answer.

Solution 44

Logic:

BBBB → 1111 which is the binary equivalent of

$(1 \times 2^0) + (1 \times 2^1) + (1 \times 2^2) + (1 \times 2^3) =$

1 + 2 + 4 + 8 = 15.

20% of 15 is 3 and cube of 3 is 27.

Binary equivalent of 27 will be 16 + 8 + 2 + 1.

So, 11011 → BBABB.

Hence BBABB is the correct answer.

Solution 45

Logic:

BABB → 1011 is the binary equivalent of

$(1 \times 2^0) + (1 \times 2^1) + (0 \times 2^2) + (1 \times 2^3) = 11$

1) BBABA → 11010 is the binary equivalent of

$(0 \times 2^0) + (1 \times 2^1) + (0 \times 2^2) + (1 \times 2^3) + (1 \times 2^4) =$

$0 + 2 + 0 + 8 + 16 = 26$

26 is not a multiple of 11.

2) BBBAA → 11100 is the binary equivalent of

$(0 \times 2^0) + (0 \times 2^1) + (1 \times 2^2) + (1 \times 2^3) + (1 \times 2^4)$

$0 + 0 + 4 + 8 + 16 = 28$

26 is not a multiple of 11.

3) BABAB → 10101 is the binary equivalent of

$(1 \times 2^0) + (0 \times 2^1) + (1 \times 2^2) + (0 \times 2^3) + (1 \times 2^4)$

$1 + 0 + 4 + 0 + 16 = 21$

26 is not a multiple of 11.

4) BBBBA → 11110 is the binary equivalent of

$(0 \times 2^0) + (1 \times 2^1) + (1 \times 2^2) + (1 \times 2^3) + (1 \times 2^4)$

$0 + 2 + 4 + 8 + 16 = 30$

26 is not a multiple of 11.

5) BABBA → 10110 is the binary equivalent of

$(0 \times 2^0) + (1 \times 2^1) + (1 \times 2^2) + (0 \times 2^3) + (1 \times 2^4)$

$0 + 2 + 4 + 0 + 16 = 22$

Hence, 22 is a multiple of 11.

Hence, BABBA is the correct answer.

Solution 46-50

    46.B

    47.A

    48.C

    49.C

    50.A

The first letter in the code is as per following rules:

a. If the number of letters in the word is even, the 2nd letter from the left of the word is written.

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b. If the number of letters in the word is odd, the 2nd letter from the right of the word is written.

The digit in the code is the number of consonants in the word.

The symbol in the code is as per the number letters in the word:

a. If number of letters is 3, the symbol used is @.

b. If number of letters is 4, the symbol used is #.

c. If number of letters is 5, the symbol used is $.

d. If number of letters is 6, the symbol used is %.

e. If number of letters is 7, the symbol used is &.

f. If number of letters is 8, the symbol used is *.

The last letter in the code is the immediate succeeding letter (in alphabetical series) of the last letter of the word.

Example:

'PREACH'

As the number of letters in the word is 4, so the first letter in its code is 2nd letter of the word i.e. R

Number of consonants in the word is 4.

Number of letters in the word is 6, so the symbol used is %.

Last letter of the word is H, so the last letter in the code is immediate succeeding letter of H i.e. I.

Therefore, the code for 'PREACH' is 'R4%I'

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