

CHAPTER – 3

CODING AND DECODING

Before looking at the different types of questions and some of the codes that can be used with the help of examples, let us first understand what we mean by *coding* and *decoding*. When we say *coding*, a particular code or pattern is used to express a word in English language as a different word or in a different form. The coded word itself does not make any sense unless we know the pattern or code that has been followed. *Decoding* refers to the process of arriving at the equivalent English word from the code word given.

In the questions, a particular code is given and on the basis of this given code, we have to find out how another word (in English language) can be coded. The correct code for the given word has to be selected from the answer choices on the basis of the code given in the question.

Worked out examples:

1. In a certain code language, if the word 'PARTNER' is coded as OZQSDQ, then what is the code for the word 'SEGMENT' in that language?
 (A) TFHNFOU (B) RDFLDMS
 (C) RDELDMS (D) RDFEDNS
 (E) RGEFDNT

Sol. Word : P A R T N E R
 Logic : -1 -1 -1 -1 -1 -1 -1
 Code : O Z Q S M D Q

Similarly the code for SEGMENT is
 Word : S E G M E N T
 Logic : -1 -1 -1 -1 -1 -1 -1
 Code : R D F L D M S Choice (B)

2. In a certain code language, if the word 'RECTANGLE' is coded as TGEVCPING, then how is the word 'RHOMBUS' coded in that language?
 (A) TJOQDWV (B) TJQNDWU
 (C) TJQODWU (D) TJQOEWU
 (E) TKLOPRS

Sol. Word : R E C T A N G L E
 Logic : +2 +2 +2 +2 +2 +2 +2 +2
 Code : T G E V C P I N G

Similarly, the code for RHOMBUS is
 Word : R H O M B U S
 Logic : +2 +2 +2 +2 +2 +2 +2
 Code : T J Q O D W U Choice (C)

3. In a certain code language, if the word 'SPHERE' is coded as EREHPS, then how is the word 'EXHIBITION' coded in that language?
 (A) NOTITBIHXE
 (B) NOITIDHXE
 (C) NOITIBIHWE
 (D) NOITIBIHXE
 (E) IHXEBINOIT

Sol. Word : S P H E R E
 Logic : The letters in the given word are reversed.
 Code : E R E H P S

Similarly, the code for EXHIBITION, is
 Word : E X H I B I T I O N
 Logic : The letters in the given word are reversed.
 Code : N O I T I B I H X E Choice (D)

4. In a certain code language, if the word 'REJECTION' is coded as SGMIHWPWW, then how is the word 'MECHANIC' coded in that language?
 (A) NGFLFTPK
 (B) NGPLFTPK
 (C) NGFKFTPK
 (D) NGPTPKIL
 (E) NGFKPKIL

Sol. Word : R E J E C T I O N
 Logic : +1 +2 +3 +4 +5 +6 +7 +8 +9
 Code : S G M I H Z P W W

Similarly, the code for MECHANIC is
 Word : M E C H A N I C
 Logic : +1 +2 +3 +4 +5 +6 +7 +8
 Code : N G F L F T P K Choice (A)

5. In a certain code language, if the word 'PLAYER' is coded as AELPRY, then how is the word 'MANAGER' coded in that language?
 (A) AEAGMNR (B) AAGEMNR
 (C) AAEGMNR (D) AAEGNMR
 (E) AAGEMRN

Sol. Word : P L A Y E R
 Logic : The letters in the word are arranged in the increasing order of their value as in the alphabet.
 Code : A E L P R Y

Similarly, the code for MANAGER is AAEGMNR.
 Choice (C)

6. In a certain code language, if the number 1 is assigned to all the letters in odd numbered places in the alphabet and the remaining letters are assigned the number 2, then what is the code for the word 'INDIAN'?
 (A) 121212 (B) 111222 (C) 112212
 (D) 121221 (E) 122112

Sol. The code for the word INDIAN is 122112.
 Choice (E)

7. In a certain code language, if CRICKET is coded as 3923564, ROCKET is coded as 913564 and KETTLE is coded as 564406, then how is LITTLE coded in that language?
 (A) 244060 (B) 024406
 (C) 020446 (D) 200446
 (E) 246400

Sol. As we observe that the letters and their corresponding codes are given in order i.e., the code for C is 3, R is 9, I is 2 and so on. Hence, the code for LITTLE is 024406.
 Choice (B)

Directions for questions 8 to 11: In a certain code language, the codes for some words are as follow.

NATION - agvnab
 REMOTE - rzgrbe
 STAIR - efgnv
 FORMAL - bensyz
 COMMON - zabzpb
 FOR - ebs

Based on the above coding pattern answer the following questions.

8. What is the code for 'SCREEN'?
 (A) fepcra (B) fpersa (C) fpreba
 (D) fperra (E) frpbrb
9. What is the code for 'RATION'?
 (A) ensvba (B) engvba (C) engrba
 (D) engvca (E) egnege
10. What is the code for 'CREATOR'?
 (A) prengbc (B) persbgc (C) perngbe
 (D) pebrycn (E) prberbe
11. What is the code for 'AMERICAN'?
 (A) nzrevpna (B) nzrespna (C) nzlespna
 (D) nzreqpna (E) nzlzrvsk

Solutions for questions 8 to 11:

The given words and their codes are as follow

- (1) NATION - agvnab
- (2) REMOTE - rzgrbi
- (3) STAIR - efgnv
- (4) FORMAL - bensyz
- (5) COMMON - zabzpb
- (6) FOR - ebs

In the 1st word the letter N is repeated and so is the code a. Hence, for N, the code is a. Similarly, from the 2nd word, the code for E is 'r'. In 1st and 6th words the letter o is common and so is the code b. Hence, the code for o is b. In the 5th word the letter m is repeated and so is the code z. Hence, the code for m is z. Similarly the codes for the remaining letters can be determined.

The letters and their respective codes are as follows.

Letter	A	C	E	F	I	L	M	N	O	R	S	T
Code letter	n	p	r	s	v	y	z	a	b	e	f	g

8. The code for 'SCREEN' is 'fperra'. Choice (D)
9. The code for 'RATION' is 'engvba'. Choice (B)
10. The code for 'CREATOR' is 'perngbe'. Choice (C)
11. The code for 'AMERICAN' is 'nzrevpna'. Choice (A)
12. In a certain code if white is called as black, black as yellow, yellow as blue, blue as red, red as green, green as purple, then what is the colour of blood in that language?
 (A) Red (B) Green (C) Yellow
 (D) Purple (E) Black

Sol. The colour of blood is red and in this code Red is called Green. Hence, blood is green in colour in that language. Choice (B)

Exercise – 3(a)

Directions for questions 1 to 45: Select the correct alternative from the given choices.

1. In a certain code language, if the word PANCREAS is coded as SAERCNAP, then how is the word STADIUM coded in that language?
(A) MUDIATS (B) MUDIAST (C) MUIDATS
(D) MIUDATS (E) ATSDMUI
2. In a certain code language, if the word CIRCUMSTANCE is coded as CRUSACICMTNE, then how is the word HAPPINESS coded in that language?
(A) HPEISAPNS (B) HPISEAPNS
(C) HPIESPANS (D) HPIESAPNS
(E) APNSSEIPH
3. In a certain code language, if the word HYPERBOLA is coded as YPROHEBLA, then how is the word SENTIMENT coded in that language?
(A) ENEISTMNT (B) ENIESMTNT
(C) ENIESTMNT (D) ENIESTNTM
(E) EIESNTMNT
4. In a certain code language, if the word REGISTRATION is coded as TSIGERNOITAR, then how is the word ACCURATE coded in that language?
(A) UCCAETAR (B) UACCETAR
(C) UCACETAR (D) UCCATEAR
(E) UCAAECTR
5. In a certain code language, if the word SANDWICH is coded as ADSHCIWN, then how is the word GEOMETRY coded in that language?
(A) EGMRTYEO (B) EMGRYTEO
(C) EMGRYETO (D) EMGYRETO
(E) EMGYRTEO
6. In a certain code language, if the word DECORATE is coded as EDOCARET, then how is the word HYGROMETER coded in that language?
(A) YHRMGOTERE (B) YHRGMTOERE
(C) YHRGMOTERE (D) YHRGMOTREE
(E) YHGRMOTREE
7. In a certain code language, if the word CUSTOMER is coded as RCEUMSOT, then how is the word IMMACULATE coded in that language?
(A) EITMMALAUC (B) EITMAMLAUC
(C) ETEMAMALUC (D) EITMMALUAC
(E) EMATCLMIU
8. In a certain code language, if the word LIBERAL is coded as MJCFBSBM, then how is the word REDUCTION coded in that language?
(A) EDCTBSHNM (B) SFEVDUJPO
(C) SFEVCTJPO (D) SFDUCTJPO
(E) SFDEVDJPO
9. In a certain code language, if the word STRUCTURE is coded as TVUYHZBZN, then how is the word REMEDY coded in that language?
(A) SGPIJE (B) SGPEJD (C) SGPIHE
(D) SGPIIE (E) GPGISE
10. In a certain code language, if the word MAJESTY is coded as NZKDTSZ, then which word is coded as HKJLQRF in that language?
(A) GLORIFY (B) GLISTEN (C) GLOWING
(D) GLIMPSE (E) GLITTER
11. In a certain code language if the word IMPORT is coded as KPUVCG, then what is coded as MISCHIEF?
(A) KFNWVWNM (B) OLXYJSVVY
(C) OLXIRVWY (D) KFNWVWNM
(E) KLMPRSVN
12. In a certain code language, if the word MINUTE is coded as NMWKSO, then what is the code for the word REIGN?
(A) SIPVM (B) SLRVM (C) SIRTN
(D) SLRWM (E) SIRWM
13. In a certain code language if the word MIRAGE is coded as ZRBJNJ, then how is the word INTRUDE coded in that language?
(A) RBPHNJL (B) RDPIPAJ (C) RBNJPHJ
(D) RBJLPHJ (E) RBDHLJN
14. In a certain code language, if the word GROUND is coded as HPRQXS, then what is coded as NOURISH?
(A) OMXNNMO (B) MQRVDYA (C) MQRTFXA
(D) OMVNMNO (E) MQVNMPR
15. In a certain code language if the word SPLENDOR is coded as UFNJPHQJ, then how is the word DISASTER coded in that language?
(A) FRUBUNGJ (B) HRUDNPJL
(C) FRUBNPLH (D) HRDLJNLJ
(E) FRDBNPLH
16. In a certain code language, if the word SEARCH is coded as IDSBFT, then how is the word FURNISH coded in that language?
(A) ITKNSVG (B) ITJORWG (C) ITJOSVG
(D) ITHNRVG (E) ITLOSWG
17. In a certain code language, if the word CERTIFY is coded as BURGIVX, then how is the word ADJACENT coded in that language?
(A) ZWQZXVMG (B) GMVXZQWZ
(C) RMVWYJWH (D) GMXVWRVZ
(E) RMKLPRNG
18. In a certain code language if the word SYMPHONY is coded as HBNKSLMB, then how is the word PICKLE coded in that language?
(A) KRXSNR (B) KRWPLV (C) KIXPOV
(D) KIXPLV (E) KRXPOV
19. In a certain code language, if the word MYSTERY is coded as ZLFGREL, then how is the word PURSUE coded in that language?
(A) KFIHVV (B) CHFEIR (C) CHEFHR
(D) CHEGIR (E) CHIRVS
20. In a certain code language, if the word BARRICADE is coded as AABCDEIRR, then how is the word INDIVIDUAL coded in that language?
(A) ADDIILNUV (B) ADDIINLUV
(C) AIIUDDLNV (D) ADDINIILUV
(E) NIULIDVDA
21. In a certain code language, if the word MATERIALS is coded as DSZLSTMBJ, then how is the word REASONING coded in that language?
(A) RZDQPHOJO (B) PFBTPOJOH
(C) HOJOPQDZR (D) RZDQPOJOH
(E) None of these

22. In a certain code language, if the word PLATINUM is coded as AIUPLTNM, then how is the word ADVENTURE coded in that language?
 (A) AEEUDNRTV (B) ADEENRTUV
 (C) AEUEDNTVR (D) AEUEDVNTR
 (E) AEEUVTRND
23. In a certain code language, if the word ADVANTAGE is coded as EFWEPVEHI, then how is the word DUPLICATE coded in that language?
 (A) EAQMODEUF (B) FAQMODEUI
 (C) FAQMODEVI (D) FAQMJDEVI
 (E) EAQMODEVI
24. In a certain code language, if the word FANTASTIC is coded as SMZEBDJUT, then how is the word DIRECTION coded in that language?
 (A) EHQDDUJPO (B) DQHCDOPJU
 (C) DQHEUJPOD (D) DOPJUDQHE
 (E) None of these
25. In a certain code language, if MENTION = 49 and NEUROTIC = 64, then MARVELLOUS = ?
 (A) 81 (B) 88 (C) 64 (D) 121 (E) 100
26. In a certain code language, if CABINET = 70 and BEAUTY = 60, then PRODUCTION = ?
 (A) 90 (B) 100 (C) 110 (D) 120 (E) 132
27. In a certain code language, if IMPEND = 61 and DISH = 40, then FRUIT = ?
 (A) 86 (B) 68 (C) 74 (D) 76 (E) 98
28. In a certain code language, if BUG = 90 and ALMS = 180, then CADET = ?
 (A) 153 (B) 165 (C) 175
 (D) 148 (E) 185
29. In a certain code language, if INFER = 25 and JERSEY = 28, then CHOICE = ?
 (A) 34 (B) 39 (C) 41 (D) 47 (E) 49
30. In a certain code language, if FRAME = 48 and HURDLE = 74, then FIGMENT = ?
 (A) 74 (B) 89 (C) 91 (D) 87 (E) 81
31. In a certain code language, if Violet is called as Green, Green is called as Red, Red is called as Brown, Brown is called as Orange, Orange is called as Yellow, Yellow is called as Blue and Blue is called as Indigo, then what is the colour of human blood in that language?
 (A) Red (B) Blue (C) Green
 (D) Violet (E) Brown
32. In a certain code language, if Pen means Eraser, Eraser means Book, Book means Scale, Scale means Sharpener, Sharpener means Duster and Duster means Table, then what is the name of the object that is used to clean the black board in that language?
 (A) Duster (B) Sharpener (C) Scale
 (D) Table (E) Book
33. In a certain code, language Bread is called Butter, Butter is called Milk, Milk is called Shirt, Shirt is called Shoe, Shoe is called Bicycle, Bicycle is called Watch, Watch is called Aeroplane and Aeroplane is called Ship, then which of the following indicates time in that language?
 (A) Watch (B) Bicycle (C) Milk
 (D) Ship (E) Aeroplane
34. In a certain code language, the letters in the English alphabet are coded as follows, based on their place values. Each letter with a multiple of 2 as place value are given 1 as code, and the ones with a multiple of 3 as place value are given 2 as code, in case of a clash, 1 prevails and the rest of the letters are given 3 as code. Then what is the code for the word ALPHABET?
 (A) 31313113 (B) 31113131 (C) 13331313
 (D) 31131131 (E) 13113313
35. In a certain code language, if each letter in the English alphabet, with an odd numbered value is given a code of 2 and each of the remaining letters is coded as 1, then what is the code for the word SALVATION?
 (A) 211221121 (B) 211121212 (C) 221112122
 (D) 221121221 (E) 222111222
36. In a certain code language, if each letter in the English alphabet, which has prime number place value is coded as 1 and each of the remaining letters are coded as 2, then what is the code for the word LANGUAGE?
 (A) 12211221 (B) 11212121 (C) 22212211
 (D) 22212121 (E) 11221122
37. In a certain code language, if each vowel of the English alphabet is coded as 3 and each of the consonants is coded as 4, then what is the code for the word DICTIONARY?
 (A) 4344334344 (B) 4344334443
 (C) 4334334443 (D) 4344333444
 (E) 4344344333
38. In a certain code language, if the word MANAGEMENT is coded as DAEAGEDEEB, then how is the word TREASURE coded in that language?
 (A) BIFADHE (B) BIEAJCIE (C) BJEADICE
 (D) BJFAIJCE (E) None of these
39. In a certain code language, if APPLE is coded as 28726, LEAVE is coded as 76987 and LETTER is coded as 376347, then what is the code for the word TRAVELLER?
 (A) 348967764 (B) 349876764
 (C) 348796674 (D) 348976674
 (E) 348969879
40. If PAPER is coded as 18/5/16/1/16, then what is the code for DRUNK?
 (A) 11/21/14/18/4 (B) 4/18/21/14/11
 (C) 11/14/21/8/41 (D) 21/14/11/4/18
 (E) 11/14/21/18/4
41. If LUCK is coded as 12/63/11, then what is the code for LAND?
 (A) 12/14/4 (B) 1/214/4 (C) 12/182/4
 (D) 12/1/96 (E) 12/1/56
42. If DRAW is coded as 22/24 and STRONG is coded as 39/33/21, then what is the code for CARE?
 (A) 4/23 (B) 4/19/23 (C) 3/19/5
 (D) 3/23 (E) 3/90
43. If 8 is coded as $\sqrt{64}$, then what is the code 6?
 (A) $\ln 36$ (B) $\sqrt[3]{216}$ (C) $\sqrt{1296}$
 (D) $\ln 256$ (E) $\sqrt{216}$

44. If BAD is coded as 25 -2 1017, then what is the code for DEAF?

- (A) 1017 3118 -2 7769
(B) 1017 618 -2 7769
(C) 1017 3118 -2 1289
(D) 1017 618 -2 1289
(E) 1017 3118 -2 4103

45. If PLAN is coded as 240 128 -15 180, then what is the code for FORM?

- (A) 20 209 306 156
(B) 20 225 330 182
(C) 30 210 308 156
(D) 30 210 306 153
(E) 20 209 308 153

Directions for questions 46 to 50: To answer these questions study the following letter codes for the digits/symbols.

Letter	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Digit/symbol	9	*	{	7	£	@	6	☆	\$	5	+	×	©	4	÷	₹	3	%

Letter	S	T	U	V	W	X	Y	Z
Digit/symbol	#	=	π	2	α	1	}	β

46. In a certain way if NUMBERS is coded as * £ © 4 % # π then what is the code for BRACELET?

- (A) 9 * { £ £ × % = (B) { 9 % * = £ × £
(C) % * { 9 £ × = £ (D) = £ × £ { 9 % *
(E) % = × { £ ☆ £ 9

47. In a certain way if GOAT is coded as = x β 6, then what is the code for 'HORSE'?

- (A) π* £ @ % (B) £ # % ÷ ☆ (C) × # \$ 2 ☆
(D) # × \$ ☆ 2 (E) 2 ☆ \$ # ×

48. In a certain way is 'SYMBOL' is coded as = 1 4 9 ₹ + then which is coded as 5 × * @ @ %

- (A) JBEFFR (B) IMAGES (C) PAPERS

- (D) NOTICE (E) APPLES

49. In a certain way if 'LOCKER' is coded as '@ 5 } ☆ { 3' then what is the code for 'MATRIX'?

- (A) 6 2 ₹ ÷ 6 α (B) 6 £ ₹ = 6 }
(C) 6 2 ₹ ÷ α 6 (D) @ 2 ₹ 4 \$ }
(E) None of these

50. In a certain way if 'GLANCE' is coded as '☆ © £ ₹ 7 \$' then what is the code for 'PLANTS'?

- (A) 3 @ # { * © (B) π 7 3 9 β +
(C) 3 © # ₹ * = (D) © £ 3 ₹ = 2
(E) 3 © £ ₹ 2 =

Exercise - 3(b)

Directions for questions 1 to 5: These questions are based on the following data.

In a certain code language, if the word ROUTINE is coded as JMPRRLJ and the word FIDELITY is coded as LGHCXGNW, then how will you code the following words in that language?

- PREVAIL
(A) FPLRDGX (B) FPJTBGX (C) FTJBNKX
(D) FPJVBIX (E) FTJVBIX
- LANGUAGE
(A) XYBDPXNC (B) XYBDPXM C
(C) XYCEPXNC (D) XYBFPXNC
(E) XYBEPYNC
- TOBACCO
(A) NMDXEAF (B) NMDYEBF (C) NMCYFBD
(D) NMDYFAD (E) NMCXEAD
- BRANCH
(A) DTBPFJ (B) DPBPFJ (C) DPBLFF
(D) DPBLHJ (E) DTBLFJ
- ENVELOPE
(A) JPRGXMF C (B) JLPCVMFC (C) JLRGXQFC
(D) JLRCXMF C (E) JPRCXMF C

Directions for questions 6 to 10: These questions are based on a certain code language. Understand the logic in the coding given below and answer the following questions.

The word INDUSTRY is coded as C₃ G₂ B₂ C₇ S₁ D₅ F₃ E₅ and the word CREDIT is coded as C₁ F₃ E₁ B₂ C₃ D₅.

- SANSKRIT
(A) S₁A₁D₃S₁K₁F₃D₃E₅ (B) S₁A₁D₃S₁K₁F₂C₃D₅
(C) S₁A₂G₂S₁I₂C₆H₁D₅ (D) S₁A₁G₂S₁K₁C₆C₃E₄
(E) S₁A₁G₂R₁K₁C₆C₃E₄
- BRIGHT
(A) B₂C₆C₃E₂B₄D₄ (B) A₂F₃C₃G₁H₂D₅
(C) A₂F₃C₃G₁D₂J₂ (D) A₂F₃C₃E₂H₁E₄
(E) A₃F₂C₂E₃H₄E₁
- INVENTOR
(A) C₃G₂T₂E₁L₂D₅C₅F_E (B) C₃G₂K₂E₁L₂D₅E₅C₅
(C) C₃G₂K₂E₁G₂J₂C₅I₂ (D) C₃G₂T₂E₁G₂D₅C₅I₃
(E) None of these
- MOTIVE
(A) M₁C₅D₄C₃K₂E₁ (B) M₁E₃J₂C₃K₂E₁
(C) M₁E₄D₅C₃T₂E₁ (D) M₁E₄J₂C₄K₂E₂
(E) None of these
- MINUTE
(A) M₁H₁N₁S₂J₂E₁ (B) M₁C₃G₂G₃E₄E₁
(C) M₁C₃G₂K₂D₅E₁ (D) M₁H₁G₂S₂D₅E₂
(E) None of these

Directions for questions 11 to 15: For the following groups of letters given in Column I, the codes are given in Column II. Answer the following questions by finding the codes for the groups from the given columns.

Column - I	Column - II
(A) lit kit bit dit	b r p d
(B) fit git mit kit	t d s v
(C) rit bit git tit	x p v w
(D) nit dit fit rit	r s x j

11. What is the code for lit?
(A) v (B) r (C) p (D) d (E) b
12. What is the code for tit?
(A) w (B) x (C) p (D) v (E) r
13. What is the code for rit?
(A) j (B) s (C) r (D) x (E) w
14. What is the code for nit?
(A) x (B) s (C) j (D) r (E) w
15. What is the code for kit?
(A) r (B) p (C) x (D) b (E) d

Directions for questions 16 to 20: For the words given in column I, the codes are given in Column II. Answer the following questions by finding the codes for the letters from the words and their codes given in the columns.

- | Column - I | Column - II |
|-------------|-------------|
| (1) PRETEND | 4396408 |
| (2) COMMON | 615715 |
| (3) HOUSE | 4*2&1 |
| (4) SUPPORT | 3*21839 |
| (5) DRUM | 5*08 |
16. What is the code for the word PROTECT?
(A) 3895479 (B) 3846978 (C) 3819479
(D) 3814978 (E) 3849469
17. What is the code for the word HORMONE?
(A) &385364 (B) &176561 (C) &175184
(D) &185164 (E) 1734289
18. What is the code for the word EMPEROR?
(A) 5495717 (B) 4534818 (C) 3453919
(D) 4537178 (E) 5481387
19. What is the code for the word DETHRONE?
(A) 049&7264 (B) 049&8164 (C) 059&7164
(D) 059&8164 (E) 43&90689
20. What is the code for the word COMPOUND?
(A) 71531*60 (B) 72532*80 (C) 91531*70
(D) 72542*60 (E) 725232*8

Directions for questions 21 to 25: For the following sentences given in column I, the codes are given in column II. Answer the following questions by finding the codes for the words form the given columns.

- | Column I | Column II |
|-------------------------|---------------------|
| All people are not poet | kak cac hah faf zaz |
| Great people are happy | tat dad faf zaz |
| Krishna is a god | nan gag rar mam |
| Tagore is a great poet | mam kak dad nan lal |
| God make people happy | tat gag faf sas |
| No person is happy | xax pap faf mam |
21. What is the code for the word 'Tagore' in that language?
(A) kak (B) dad (C) lal
(D) nan (E) mam
22. What is the code for the word 'not' in that language?
(A) cac (B) hah (C) tat
(D) zaz (E) Cannot be determined
23. What is the code for "No god is a person" in that language?
(A) mam gag nan cac
(B) pap gag nan mam tat
(C) lal mam gag cac tat
(D) xax mam gag nan pap
(E) Cannot be determined
24. Which of the following can be the code for "Tagore make great paintings" in that language?
(A) dad sas lal cac (B) lal kak zaz waw
(C) qaq lal gag sas (D) lal dad sas vav
(E) hah lal dad gag
25. If the code for "Mahima is not a person" is "nan xax mam yay cac", then what is the code for "Mahima make all people happy"?
(A) xax yah cac tat sas (B) faf yay sas cac tat
(C) hah yay faf tat sas (D) tat xax yay tat sas
(E) Cannot be determined

Directions for questions 26 to 30: Given below are the codes for the digits/symbols. Study the conditions given below and answer the questions that follow.

Digit/Symbol	7	*	3	\$	8	^	&	6	#	5	€	4	Σ	9
Code	P	B	T	Q	U	C	N	F	V	D	K	A	G	S

Conditions:

- If the third and fourth elements are multiples of 2, then code both of them with the code of Σ.
- If the third and fifth elements are symbols, then code both of them as X.
- If the first element is an odd digit and fourth element is an even digit, then interchange their codes.
- If the second and fourth elements are perfect squares, then code both of them as Z.

26. 3€85#6
(1) TKUNVF (2) TKDUVF
(3) TKUVDV (4) TKUDVF
(5) FKUDVT
27. #8Σ7\$9
(1) VUXKXS (2) VUXPQS
(3) VUXPXS (4) VUGPQS
(5) SUXPXV
28. 7€96*5
(1) FKSPBD (2) PKSFB
- (3) FKVPBD (4) FSKPBD
(5) None of these
29. 4&86€7
(1) ANGGKB (2) ANGGKP
(3) ANUFKB (4) ANGGPK
(5) NAGGBK
30. *9\$43€
(1) BZQZPK (2) BZQATK
(3) BSQZPK (4) BZATPK
(5) None of these

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Directions for questions 31 to 35: Given below are the codes for the digits/symbols. Study the conditions given below and answer the questions that follow.

Digit /symbol :	6	2	@	*	3	\$	1	#	7	8	4	%	5	£	9
Letter codes :	G	J	B	P	O	A	K	N	F	Q	L	S	D	M	H

Conditions:

- (A) If the 1st element in the group is a symbol and the last element is an odd digit, then the code for both will be X.
 (B) If the 1st element is an even digit and the last element is a symbol, then codes for each of them gets interchanged.
 (C) If the 1st element is an odd digit and the last element is an even digit then the code for both will be Y.
 (D) If both the 1st and the last elements are symbols, then the code for both will be Z.

Find codes for the following group of terms based on the codes given in the table and the condition

31. 7 4 5 9 8 3 6

- (A) FLDHQOG (B) GLDHQOF
 (C) FLDQHOG (D) YLDHQOY
 (E) None of these

32. 8 4 6 9 7 3 %

- (A) QLGHFOS (B) QLGHFOS
 (C) XLGHFOX (D) QOFHGLS
 (E) None of these

33. # 6 3 4 1 8 5

- (A) NGLOKQD (B) DGOLKQN
 (C) XGOLKQX (D) ZGOLKQZ
 (E) None of these

34. 4 3 2 9 6 1 @

- (A) LOJHGKB (B) XOJHGKX
 (C) YOJHGKY (D) BOJHGKL
 (E) None of these

35. @ 3 7 * 9 6 £

- (A) MOFPHGB (B) ZOFPHGZ
 (C) YOFPHGY (D) BOFPHGM
 (E) None of these

Directions for questions 36 to 40: Given below are the codes for the digits / symbols. Answer the questions based on the codes and the conditions given below the code.

Digit/symbol	3	8	£	4	\$	@	1	#	7	%	9	©	*	2	5	Σ	6
Letter Code	D	A	M	H	Q	C	R	G	B	J	F	K	N	L	T	P	E

Conditions:

- (A) If both the left most and the right most elements are symbols, then the codes for the first two elements get interchanged between them and the codes for the last two elements get interchanged between them.
 (B) If the left most element is a symbol and the right most is an even digit then the code for both will be y.
 (C) If the left most element is an odd digit and the right most element is a symbol, then the codes of these two get interchanged.
 (D) If the left most element is an odd digit and the right most element is an even digit then the code for both will be w.
 (E) If the left most element in the group is an even digit and the right most element is an odd digit then, reverse the order of the code for the group.

36. 8 3 6 @ 4 9 7

- (A) PDECHFA (B) BFHCEDA (C) ADECHFB
 (D) XDECHFX (E) YDECHFY

37. 3 # % 7 9 6 4

- (A) HEFBJGD (B) WGJBFEW (C) XGJBFEW
 (D) HGJBFED (E) None of these

38. \$ 4 7 8 3 © 6

- (A) EKDABHQ (B) ZHBADKZ (C) EHBADKQ
 (D) YHBADKY (E) YHBADKY

39. 5 1 © 2 6 9 @

- (A) YRKLEFY (B) ZRKLEFZ (C) XRKLEFX
 (D) CRKLEFT (E) None of these

40. % 8 @ 5 2 1 *

- (A) AJCTLNR (B) NACTLRJ (C) ZACTLRZ
 (D) YACTLRY (E) None of these

Key

Exercise – 3(a)

- | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. C | 6. C | 11. A | 16. C | 21. A | 26. B | 31. E | 36. C | 41. A | 46. A |
| 2. D | 7. B | 12. E | 17. B | 22. D | 27. C | 32. B | 37. A | 42. A | 47. D |
| 3. C | 8. B | 13. C | 18. E | 23. C | 28. B | 33. E | 38. B | 43. B | 48. B |
| 4. A | 9. D | 14. B | 19. C | 24. B | 29. A | 34. B | 39. D | 44. A | 49. A |
| 5. E | 10. D | 15. A | 20. A | 25. E | 30. E | 35. D | 40. E | 45. B | 50. E |

Exercise – 3(b)

- | | | | | | | | | | |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. B | 5. D | 9. B | 13. D | 17. D | 21. C | 25. C | 29. B | 33. C | 37. B |
| 2. E | 6. D | 10. B | 14. C | 18. B | 22. E | 26. D | 30. E | 34. D | 38. E |
| 3. D | 7. C | 11. E | 15. E | 19. B | 23. D | 27. C | 31. D | 35. B | 39. D |
| 4. C | 8. C | 12. A | 16. C | 20. A | 24. D | 28. A | 32. A | 36. B | 40. A |

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