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 OZQSMDQ, 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 +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) NOITIDIHXE
   (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 SGMIHZPWW, 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)

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 MJCFSBM, 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) KFNVWVNM   (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 ZRJBNJ, 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 HPRQSX, 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) KFIHFV   (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) ADDIIILNUV   (B) ADDIIINLUV
(C) AIIIUDDLNV   (D) ADDINIILUV
(E) NIIULIDVDA

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) BIFAIDHE (B) BIEAJCIE (C) BJEAIDCE
(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) lmno 36 (B) cbrt 216 (C) sqrt 1296
(D) ftrt 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?

1. PREVAIL
(A) FPLRDGX
(B) FPJTBGX
(C) FTJBNKX
(D) FPJVBIX
(E) FTJVBIX

2. LANGUAGE
(A) XYBDPXNC
(B) XYBDPXMC
(C) XYCEPXNC
(D) XYBFPXNC
(E) XYBEPYNC

3. TOBACCO
(A) NMDXEAF
(B) NMDYEBF
(C) NMCYFBD
(D) NMDYFAD
(E) NMCXEAD

4. BRANCH
(A) DTBPFJ
(B) DPBPFJ
(C) DPBLFF
(D) DPBLHJ
(E) DTBLFJ

5. ENVELOPE
(A) JPRGXMFC
(B) JLPCVMFC
(C) JLRGXQFC
(D) JLRCXMFC
(E) JPRCXMFC

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 $C_3 G_2 B_2 C_7 S_1 D_5 F_3 E_5$ and the word CREDIT is coded as $C_1 F_3 E_1 B_2 C_3 D_5$.

6. SANSKRIT
(A) $S_1A_1D_3S_1K_1F_3D_3E_5$
(B) $S_1A_1D_3S_1K_1F_2C_3D_5$
(C) $S_1A_2G_2S_1I_2C_6H_1D_5$
(D) $S_1A_1G_2S_1K_1C_6C_3E_4$
(E) $S_1A_1G_2R_1K_1C_6C_3E_4$

7. BRIGHT
(A) $B_2C_6C_3E_2B_4D_4$
(B) $A_2F_3C_3G_1H_2D_5$
(C) $A_2F_3C_3G_1D_2J_2$
(D) $A_2F_3C_3E_2H_1E_4$
(E) $A_3F_2C_2E_3H_4E_1$

8. INVENTOR
(A) $C_3G_2T_2E_1L_2D_5C_5F_E$
(B) $C_3G_2K_2E_1L_2D_5E_5C_5$
(C) $C_3G_2K_2E_1G_2J_2C_5I_2$
(D) $C_3G_2T_2E_1G_2D_5C_5I_3$
(E) None of these

9. MOTIVE
(A) $M_1C_5D_4C_3K_2E_1$
(B) $M_1E_3J_2C_3K_2E_1$
(C) $M_1E_4D_5C_3T_2E_1$
(D) $M_1E_4J_2C_4K_2E_2$
(E) None of these

10. MINUTE
(A) $M_1H_1N_1S_2J_2E_1$
(B) $M_1C_3G_2G_3E_4E_1$
(C) $M_1C_3G_2K_2D_5E_1$
(D) $M_1H_1G_2S_2D_5E_2$
(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	∑	9
Code	P	B	T	Q	U	C	N	F	V	D	K	A	G	S

Conditions:

(1) If the third and fourth elements are multiples of 2, then code both of them with the code of ∑.
(2) If the third and fifth elements are symbols, then code both of them as X.
(3) If the first element is an odd digit and fourth element is an even digit, then interchange their codes.
(4) 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) TKUVDF   (4) TKUDVF
(5) FKUDVT

27. #8∑7$9
(1) VUXKXS   (2) VUXPQS
(3) VUXPXS   (4) VUGPQS
(5) SUXPXV

28. 7€96*5
(1) FKSPBD   (2) PKSFBD
(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

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) XGJBFEX
  (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